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

19th of October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

Attn Steven Bennett

RE: AIRE – STAGE 5 ***(FINAL REPORT)***
Craig Road, Upper Caboolture QLD 4510
(Bulk Earthworks Fill – Geotechnical Inspection & Testing)

SCOPE

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

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 RPEQ Certification

CONTROL INSPECTION AND TESTING

An inspection of the areas to be filled was carried out on 22nd 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 and 825 compactor.

Bulk earthworks filling to Stage 5 was completed during two major phases. Phase 1 between the 19th of July 2024 to the 24th of September 2024 & phase 2 between the 5th of February 2025 to the 2nd of October 2025.

One hundred and fourteen (114) field density tests were carried out between 19th of July 2024 and 3rd of July 2026. These tests recorded Dry Density Ratios between 95.5% and 104.0% relative to the standard compaction test and field moisture contents within –2.5% and +1.5% of their respective optimum moisture contents, AS1289.5.1.1.

Attached documents B194/4 (Report Nos. 50096, 50113, 50118, 50202, 50203, 50209, 50319, 50320, 50327, 50368, 50370, 50382, 50387, 50784, 51227, 51229, 51243, 51269, 51272, 51284, 51309, 51336, 51338, 51341, 51342, 51348, 51351, 51354, 51359, 51361, 51363, 51364, 51366, 51373, 51375, 51377, 51386, 51390, 51834, 51863, 51935 & 52154) provide full test data for the compaction control tests.

No fill was placed on lots 529 – 538 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 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 "Level 1" inspection and testing commission.

GREG McGRANN
BRISBANE SOIL TESTING
MANAGING DIRECTOR

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

Attachments:

Geotechnical Assessment of Settlement

Differential Settlement Plan

Level 1 Test Locations

Individual Allotment Certificates

Field Density Test Reports

Aire Stages 3-5 (Interim Report) dated 5th of November 2024

SAM GEOTECHNICS
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10 YEARS 2015–2025

19th of October 2026

Brisbane Soil Testing
20/1191 Anzac Avenue,
KALLANGUR, QLD, 4503

GEOTECHNICAL ASSESSMENT OF SETTLEMENT – RESIDENTIAL SUBDIVISION AIRE STAGE 5 – CRAIG ROAD, UPPER CABOOLTURE QLD 4510

Attention: Gregory McGrann

This letter details recommendations on the potential long term and differential settlement of placed fill materials.

Consolidation of the placed fill materials will occur over time as the particles realign to find equilibrium, which is estimated to range up to about 0.5% of the total fill height (i.e. up to about 25mm where 5m of fill has been placed). Consolidation settlement of the fill will be slow in nature and should be accounted for in the design of the settlement sensitive structures. Greater settlement could also occur in areas where increased surcharge loads (e.g. additional filling, landscaping etc.) are placed on the ground surface.

Settlement must also be considered for future residential construction, where building and/or fill loads may increase the likely settlements, with significant differential settlements possible over fill areas with large variations in fill heights. Long term settlements and site reactivity should be characterised via site specific soil tests across each individual allotment and a following assessment by the footing design engineer.

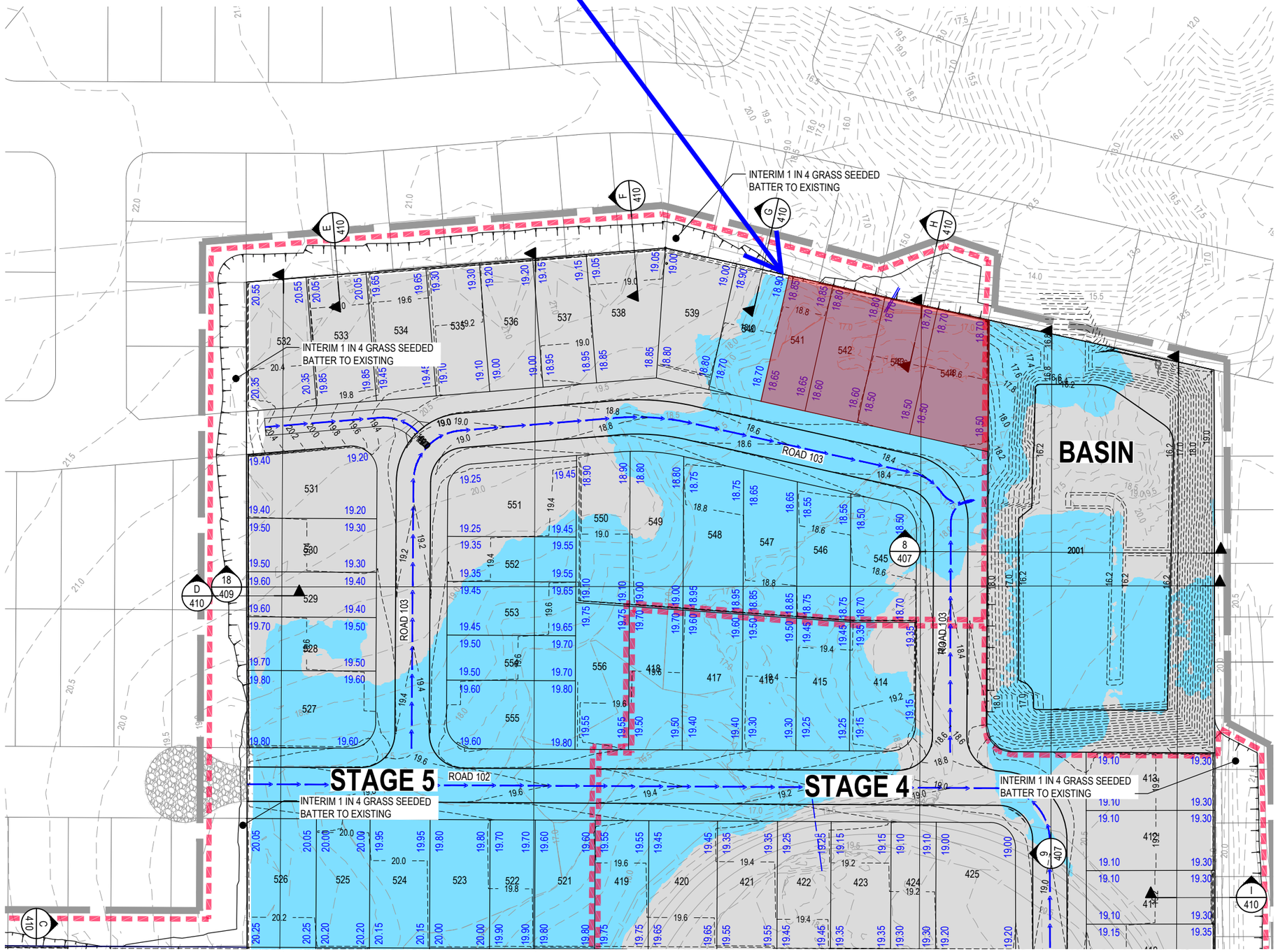
As requested, the fill areas across Aire Stage 5 which are expected to be potentially affected by longer term and differential settlements are Lots 541, 542, 543 & 544 which are illustrated on drawing number 405 Revision 5 titled “allotments expected to be subject to long term/differential settlements”.

On Behalf of Sam Geotechnics Pty Ltd,



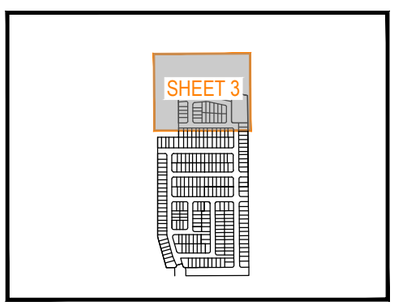
Sam Jeyan
Principal Geotechnical Engineer
RPEQ – 13339 in Civil and Geotechnical
NSW – PRE0002414 in Civil and Geotechnical
RPEV - PE0015557 in Civil
MIEAust, APEC Engineer, NER, CPEng, IntPE (Aus) – 3439772 in Civil and Geotechnical

Fill areas expected to be subject to long term/differential settlements



NOTE:

FOR LEGEND REFER TO DWG 18-0159-403



KEYPLAN

SCALE: 1:10000 (A1)

SCALE: 1:20000 (A3)

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	19.12.23	DC	NA	ORIGINAL ISSUE
2	06.02.24	DC	NA	AMENDED EARTHWORKS
3	06.03.24	DC	NA	COUNCIL RFI DATED 05.03.24
4	01.04.25	DC	OF	STG 4 & 5 DESIGN AMENDMENTS
5	16.05.25	DC	OF	AMENDED EARTHWORKS

DRAWN: OF

DESIGN: DC

STATUS: ISSUED FOR CONSTRUCTION

APPROVED: JAMES VONHOFF RPEQ 32647 DATE 22.05.25

FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD

Colliers

SCALE: 1:500 / 1:1000 — 10 5 0 10 20 — A1 / A3

CLIENT: ORCHARD (CRAIG ROAD) DEVELOPMENTS PTY LTD

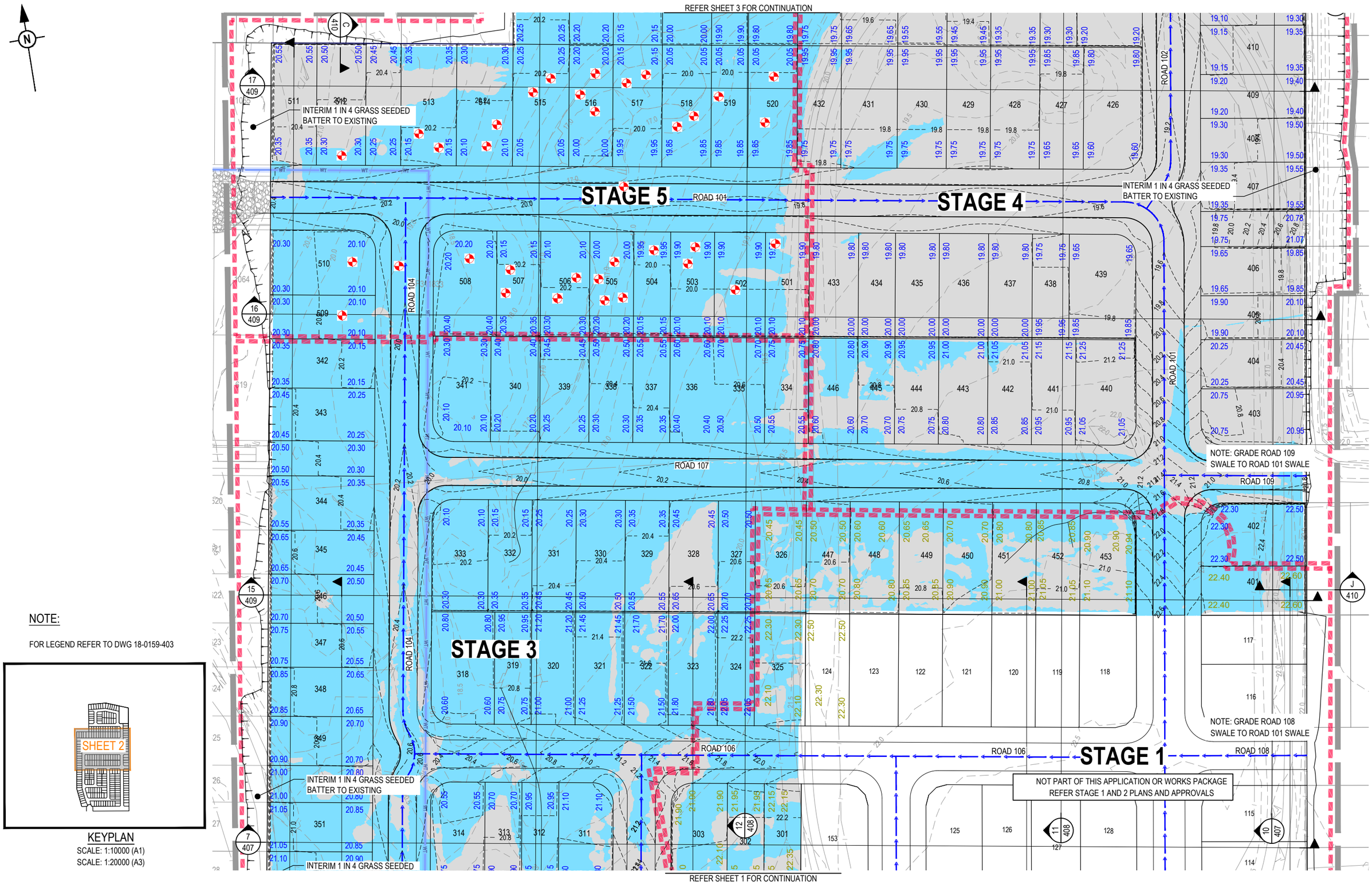
ASSOCIATED CONSULTANT: LAND PARTNERS (07) 3842 1000

PROJECT NAME: AIRE - BULK EARTHWORKS STAGES 3-5

DRAWING TITLE: LAYOUT PLAN SHEET 3 OF 3

PROJECT No.	DRAWING No.	REVISION
18-0159	405	5

LEVEL 1 TEST LOCATIONS



NOTE:

FOR LEGEND REFER TO DWG 18-0159-403

KEYPLAN

SCALE: 1:10000 (A1)

SCALE: 1:20000 (A3)

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	19.12.23	DC	NA	ORIGINAL ISSUE
2	06.02.24	DC	NA	AMENDED EARTHWORKS
3	06.03.24	DC	NA	COUNCIL RFI DATED 05.03.24
4	01.04.25	DC	OF	STG 4 & 5 DESIGN AMENDMENTS
5	16.05.25	DC	OF	AMENDED EARTHWORKS

DRAWN	STATUS
OF	ISSUED FOR CONSTRUCTION

DESIGN	APPROVED		DATE
DC	JAMES VONHOFF	RPEQ 32647	22.05.25

FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD

Colliers

SCALE

1:500 1:1000 10 5 0 10 20 A1 A3

CLIENT: ORCHARD (CRAIG ROAD) DEVELOPMENTS PTY LTD

ASSOCIATED CONSULTANT: LAND PARTNERS (07) 3842 1000

PROJECT NAME: AIRE - BULK EARTHWORKS STAGES 3-5

DRAWING TITLE: LAYOUT PLAN SHEET 2 OF 3

PROJECT No.	DRAWING No.	REVISION
18-0159	404	5



NOTE:

FOR LEGEND REFER TO DWG 18-0159-403

KEYPLAN
SCALE: 1:10000 (A1)
SCALE: 1:20000 (A3)

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	19.12.23	DC	NA	ORIGINAL ISSUE
2	06.02.24	DC	NA	AMENDED EARTHWORKS
3	06.03.24	DC	NA	COUNCIL RFI DATED 05.03.24
4	01.04.25	DC	OF	STG 4 & 5 DESIGN AMENDMENTS
5	16.05.25	DC	OF	AMENDED EARTHWORKS

DRAWN: OF
DESIGN: DC

STATUS: ISSUED FOR CONSTRUCTION

APPROVED: JAMES VONHOFF RPEQ 32647 DATE: 22.05.25
FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD

Colliers

SCALE
1:500 10 5 0 10 20 A1
1:1000 A3

CLIENT: ORCHARD (CRAIG ROAD) DEVELOPMENTS PTY LTD

ASSOCIATED CONSULTANT: LAND PARTNERS (07) 3842 1000

PROJECT NAME: AIRE - BULK EARTHWORKS STAGES 3-5

DRAWING TITLE: LAYOUT PLAN SHEET 3 OF 3

PROJECT No.	DRAWING No.	REVISION
18-0159	405	5

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Connemar Pty. Ltd.
ABN 50 065 093 647

19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 501

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 501 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 501 (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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19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 502

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 502 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 502 (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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19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 503

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 503 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 503 (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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19 October 2026

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PO Box 197
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RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 504

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 504 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 504 (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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19 October 2026

BMD Urban Pty Ltd
PO Box 197
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RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 505

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 505 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 505 (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

19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 506

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 506 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 506 (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

19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 507

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 507 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 507 (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

19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 508

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 508 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 508 (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.
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19 October 2026

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PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 509

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 509 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 509 (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

19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 510

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 510 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 510 (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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Geotechnical Testing Services.

Connemar Pty. Ltd.
ABN 50 065 093 647

19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 511

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 511 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 511 (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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Geotechnical Testing Services.

Connemar Pty. Ltd.
ABN 50 065 093 647

19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 512

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 512 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 512 (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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Geotechnical Testing Services.

Connemar Pty. Ltd.
ABN 50 065 093 647

19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 513

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 513 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 513 (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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19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 514

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 514 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 514 (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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19 October 2026

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PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 515

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 515 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 515 (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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19 October 2026

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PO Box 197
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RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 516

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 516 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 516 (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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19 October 2026

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RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 517

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 517 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 517 (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 5

LOT NO. 518

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 518 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 518 (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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19 October 2026

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RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 519

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 519 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 519 (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 5

LOT NO. 520

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 520 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 520 (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 5

LOT NO. 521

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 521 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 521 (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,

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19 October 2026

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RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 522

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 522 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 522 (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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19 October 2026

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RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 523

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 523 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 523 (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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19 October 2026

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RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 524

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 524 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 524 (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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19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 525

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 525 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 525 (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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19 October 2026

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PO Box 197
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RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 526

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 526 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 526 (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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19 October 2026

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PO Box 197
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RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 527

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 527 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 527 (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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19 October 2026

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PO Box 197
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RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 528

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 528 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 528 (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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19 October 2026

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RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 539

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 539 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 539 (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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19 October 2026

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PO Box 197
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RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 540

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 540 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 540 (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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19 October 2026

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PO Box 197
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RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 541

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 541 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 541 (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.

#***Note:*** Site classifier to include recommendations from Sam Geotechnics Pty Ltd, documented on letter dated 19/10/2026 titled "Geotechnical Assessment of Settlement – Residential Subdivision" in their calculations of characteristic ground surface movement (Ys).

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing

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RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 542

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 542 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 542 (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.

#***Note:*** Site classifier to include recommendations from Sam Geotechnics Pty Ltd, documented on letter dated 19/10/2026 titled "Geotechnical Assessment of Settlement – Residential Subdivision" in their calculations of characteristic ground surface movement (Ys).

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing

Brisbane Soil Testing
20/1191 Anzac Ave
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Phone: (07) 3285 6536
Email: brissoil@bigpond.net.au
Geotechnical Testing Services.

Connemar Pty. Ltd.
ABN 50 065 093 647

19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 543

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 543 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 543 (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.

#***Note:*** Site classifier to include recommendations from Sam Geotechnics Pty Ltd, documented on letter dated 19/10/2026 titled "Geotechnical Assessment of Settlement – Residential Subdivision" in their calculations of characteristic ground surface movement (Ys).

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing

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Connemar Pty. Ltd.
ABN 50 065 093 647

19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 544

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 544 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 544 (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.

#***Note:*** Site classifier to include recommendations from Sam Geotechnics Pty Ltd, documented on letter dated 19/10/2026 titled "Geotechnical Assessment of Settlement – Residential Subdivision" in their calculations of characteristic ground surface movement (Ys).

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing

Brisbane Soil Testing
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Geotechnical Testing Services.

Connemar Pty. Ltd.
ABN 50 065 093 647

19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 545

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 545 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 545 (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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19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 546

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 546 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 546 (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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19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 547

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 547 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 547 (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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19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 548

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 548 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 548 (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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19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 549

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 549 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 549 (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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19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 550

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 550 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 550 (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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Managing Director
Brisbane Soil Testing

19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 551

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 551 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 551 (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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Managing Director
Brisbane Soil Testing

19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 552

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 552 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 552 (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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Connemar Pty. Ltd.
ABN 50 065 093 647

Brisbane Soil Testing

19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 553

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 553 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 553 (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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Geotechnical Testing Services.

Connemar Pty. Ltd.
ABN 50 065 093 647

19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 554

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 554 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 554 (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

19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 555

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 555 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 555 (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

19 October 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 5

LOT NO. 556

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 19 October 2026.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 556 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 556 (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.	50096
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	19/07/2024	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 %
31783	7:50	150	LOT 505 LOC ON ATT PLAN R.L. 16.13	31783	-	25.5	24.5	~~Adj.~~ 1.0 WET	2.01	~~Adj.~~ 2.03	**99.0**
				Material Description: REDDISH BROWN 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: 25/07/2024

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: 25/07/2024

Brisbane Soil Testing
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Ph.(07) 3285 6536
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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	50113
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	23/07/2024	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 %
31824	14:10	150	LOT 506 LOC ON ATT PLAN R.L. 17.20	31824	-	18.5	17.5	~~Adj.~~ 1.0 WET	2.04	~~Adj.~~ 2.07	**98.5**
				Material Description: LIGHT 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: 28/07/2024

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: 28/07/2024

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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.	50118
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	24/07/2024	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 %
31860	8:15	150	LOT 505 LOC ON ATT PLAN R.L. 17.10	31860	-	32.0	31.0	~~Adj.~~ 1.0 WET	1.95	~~Adj.~~ 1.96	**99.5**
				Material Description: GREY BROWN CLAY							
31861	9:30	150	ROAD 101 LOC ON ATT PLAN R.L. 16.84	31861	-	29.0	28.5	~~Adj.~~ 0.5 WET	1.98	~~Adj.~~ 1.98	**100.0**
				Material Description: GREY BROWN 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: 28/07/2024

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: 28/07/2024

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.	50202
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	07/08/2024	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 %
32115	10:30	150	LOT 543 LOC ON ATT PLAN R.L. 11.84	32115	-	28.0	27.5	~~Adj.~~ 0.5 WET	1.95	~~Adj.~~ 1.96	**99.5**
				Material Description: GREY BROWN CLAY							
32116	13:45	150	LOT 544 LOC ON ATT PLAN R.L. 12.44	32116	-	29.0	27.0	~~Adj.~~ 2.0 WET	2.02	~~Adj.~~ 1.98	**101.5**
				Material Description: GREY BROWN 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: 10/08/2024

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: 18/08/2024

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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.	50203
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	08/08/2024	Tested by	LM 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 %
32134	9:55	150	LOT 517 LOC ON ATT PLAN R.L. 16.12	32134	-	28.0	28.5	~~Adj.~~ 0.5 DRY	1.94	~~Adj.~~ 1.94	**100.0**
				Material Description: GREY BROWN CLAY							
32135	10:10	150	LOT 515 LOC ON ATT PLAN R.L. 17.13	32135	-	30.0	29.5	~~Adj.~~ 0.5 WET	1.98	~~Adj.~~ 1.96	**101.0**
				Material Description: GREY BROWN 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: 10/08/2024

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

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Results relate only to the items tested.

Greg McGrann/Manager
Approved Signatory
Date: 18/08/2024

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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.	50209
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	09/08/2024	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/m3	Peak Converted Wet Density t/m3	Hilf Density Ratio %
32138	10:00	150	LOT 523 LOC ON ATT PLAN R.L. 16.30	32138	-	22.0	20.5	~~Adj.~~ 1.5 WET	2.07	~~Adj.~~ 2.05	**101.0**
				Material Description: ORANGE BROWN & GREY SILTY CLAY							
32139	10:30	150	LOT 522 LOC ON ATT PLAN R.L. 16.25	32139	-	24.5	25.5	~~Adj.~~ 1.0 DRY	2.05	~~Adj.~~ 1.99	**103.0**
				Material Description: ORANGE BROWN & GREY CLAY							
32140	11:15	150	LOT 524 LOC ON ATT PLAN R.L. 16.32	32140	-	25.0	25.0	~~Adj.~~ -	2.06	~~Adj.~~ 1.98	**104.0**
				Material Description: GREY BROWN CLAY							
32141	11:45	150	LOT 555 LOC ON ATT PLAN R.L. 14.52	32141	-	26.5	25.5	~~Adj.~~ 1.0 WET	2.02	~~Adj.~~ 1.99	**101.5**
				Material Description: ORANGE BROWN & GREY CLAY							
32142	13:00	150	LOT 556 LOC ON ATT PLAN R.L. 14.46	32142	-	27.0	27.5	~~Adj.~~ 0.5 DRY	2.02	~~Adj.~~ 1.95	**103.5**
				Material Description: GREY BROWN 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: 11/08/2024

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: 18/08/2024

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.
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Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	50319
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	10/09/2024	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 %
32398	11:40	150	LOT 524 LOC ON ATT PLAN R.L. 15.90	32398	-	27.0	26.0	~~Adj.~~ 1.0 WET	1.95	~~Adj.~~ 1.94	**100.5**
				Material Description: GREY BROWN 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: 17/09/2024

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: 17/09/2024

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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.	50320
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	11/09/2024	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 %
32419	8:15	150	LOT 556 LOC ON ATT PLAN R.L. 13.47	32419	-	21.0	22.5	~~Adj.~~ 1.5 DRY	2.01	~~Adj.~~ 2.03	**99.0**
				Material Description: BROWN SILTY CLAY							
32420	9:45	150	LOT 541 LOC ON ATT PLAN R.L. 12.82	32420	-	20.0	19.5	~~Adj.~~ 0.5 WET	2.08	~~Adj.~~ 2.05	**101.5**
				Material Description: BROWN SILTY CLAY							
32421	12:35	150	LOT 544 LOC ON ATT PLAN R.L. 12.67	32421	-	21.5	20.0	~~Adj.~~ 1.5 WET	2.05	~~Adj.~~ 2.04	**100.5**
				Material Description: BROWN SILTY CLAY							
32422	14:10	150	LOT 547 LOC ON ATT PLAN R.L. 12.90	32422	-	22.5	21.0	~~Adj.~~ 1.5 WET	2.02	~~Adj.~~ 2.06	**98.0**
				Material Description: BROWN 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: 17/09/2024

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

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Greg McGrann/Manager
Approved Signatory
Date: 17/09/2024

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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.	50327
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	12/09/2024	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 %
32431	10:20	150	LOT 548 LOC ON ATT PLAN R.L. 13.63	32431	-	22.5	23.5	~~Adj.~~ 1.0 DRY	2.00	~~Adj.~~ 2.01	**99.5**
				Material Description: YELLOW BROWN SILTY CLAY							
32432	13:45	150	ROAD 103 LOC ON ATT PLAN R.L. 13.60	32432	-	23.0	23.5	~~Adj.~~ 0.5 DRY	2.03	~~Adj.~~ 1.99	**102.0**
				Material Description: YELLOW 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: 17/09/2024

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: 17/09/2024

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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.	50368
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	16/09/2024	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 %
32462	9:20	150	ROAD 103 LOC ON ATT PLAN R.L. 14.15	32462	-	24.5	25.0	~~Adj.~~ 0.5 DRY	2.02	~~Adj.~~ 1.96	**103.0**
				Material Description: REDDISH GREY CLAY							
32463	11:10	150	LOT 547 LOC ON ATT PLAN R.L. 14.16	32463	-	24.0	24.0	~~Adj.~~ -	2.00	~~Adj.~~ 1.98	**101.0**
				Material Description: GREY BROWN & YELLOW CLAY							
32464	12:45	150	LOT 542 LOC ON ATT PLAN R.L. 14.37	32464	-	23.0	21.5	~~Adj.~~ 1.5 WET	2.01	~~Adj.~~ 2.05	**98.0**
				Material Description: LIGHT BROWN SILTY CLAY							
32465	13:30	150	ROAD 102 LOC ON ATT PLAN R.L. 16.70	32465	-	22.0	22.5	~~Adj.~~ 0.5 DRY	2.04	~~Adj.~~ 2.03	**100.5**
				Material Description: BROWN SILTY CLAY							
32466	14:45	150	LOT 555 LOC ON ATT PLAN R.L. 16.61	32466	-	24.5	23.5	~~Adj.~~ 1.0 WET	1.96	~~Adj.~~ 1.99	**98.5**
				Material Description: LIGHT GREY BROWN 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: 20/09/2024

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: 20/09/2024

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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.	50370
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	19/09/2024	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 %
32514	7:15	150	LOT 547 LOC ON ATT PLAN R.L. 15.50	32514	-	26.0	25.5	~~Adj.~~ 0.5 WET	2.03	~~Adj.~~ 1.96	**103.5**
				Material Description: GREY BROWN CLAY							
32515	7:50	150	LOT 546 LOC ON ATT PLAN R.L. 15.46	32515	-	21.0	20.0	~~Adj.~~ 1.0 WET	2.05	~~Adj.~~ 2.06	**99.5**
				Material Description: BROWN SILTY CLAY							
32516	10:30	150	LOT 544 LOC ON ATT PLAN R.L. 15.12	32516	-	23.5	22.5	~~Adj.~~ 1.0 WET	2.04	~~Adj.~~ 2.00	**102.0**
				Material Description: YELLOW BROWN SILTY CLAY							
32517	11:05	150	LOT 542 LOC ON ATT PLAN R.L. 15.28	32517	-	23.0	22.0	~~Adj.~~ 1.0 WET	2.02	~~Adj.~~ 2.05	**98.5**
				Material Description: YELLOW BROWN SILTY CLAY							
32518	12:40	150	LOT 543 LOC ON ATT PLAN R.L. 15.21	32518	-	25.5	25.5	~~Adj.~~ -	1.98	~~Adj.~~ 1.94	**102.0**
				Material Description: REDDISH GREY 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: 23/09/2024

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: 23/09/2024

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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.	50382
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	23/09/2024	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 %
32548	10:00	150	LOT 548 LOC ON ATT PLAN R.L. 16.12	32548	-	18.0	17.0	~~Adj.~~ 1.0 WET	2.07	~~Adj.~~ 2.09	**99.0**
				Material Description: ORANGE BROWN SILTY CLAY							
32549	10:30	150	ROAD 103 LOC ON ATT PLAN R.L. 16.03	32549	-	20.0	20.5	~~Adj.~~ 0.5 DRY	2.07	~~Adj.~~ 2.04	**101.5**
				Material Description: 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: 27/09/2024

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: 27/09/2024

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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.	50387
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	24/09/2024	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 %
32570	9:45	150	LOT 516 LOC ON ATT PLAN R.L. 16.24	32570	-	23.0	23.0	~~Adj.~~ -	2.05	~~Adj.~~ 2.03	**101.0**
				Material Description: YELLOW BROWN SILTY CLAY							
32571	10:30	150	LOT 518 LOC ON ATT PLAN R.L. 16.73	32571	-	26.5	27.0	~~Adj.~~ 0.5 DRY	1.98	~~Adj.~~ 1.99	**99.5**
				Material Description: REDDISH 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: 30/09/2024

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: 30/09/2024

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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.	50784
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	05/02/2025	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 %
33775	9:30	150	LOT 503 LOC ON ATT PLAN R.L. 17.76	33775	-	23.5	22.0	~~Adj.~~ 1.5 WET	1.99	~~Adj.~~ 2.05	**97.0**
				Material Description: LIGHT 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: 10/02/2025

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: 10/02/2025

Brisbane Soil Testing
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Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	51227
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	08/07/2025	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 %
35177	11:15	150	LOT 503 LOC ON ATT PLAN R.L. 18.45	35177	-	22.0	23.0	~~Adj.~~ 1.0 DRY	2.01	~~Adj.~~ 2.01	**100.0**
				Material Description: REDDISH BROWN SILTY CLAY							
35178	11:40	150	ROAD 104 LOC ON ATT PLAN R.L. 18.05	35178	-	18.5	17.5	~~Adj.~~ 1.0 WET	1.82	~~Adj.~~ 2.06	**88.5**
				Material Description: BROWN SILTY CLAY							
35179	12:15	150	LOT 518 LOC ON ATT PLAN R.L. 17.60	35179	-	17.5	16.0	~~Adj.~~ 1.5 WET	2.05	~~Adj.~~ 2.11	**97.0**
				Material Description: BROWN SILTY 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: 10/07/2025

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: 10/07/2025

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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.	51229
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	09/07/2025	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 %
35182	9:30	150	LOT 520 LOC ON ATT PLAN R.L. 18.86	35182	-	25.0	23.5	~~Adj.~~ 1.5 WET	1.99	~~Adj.~~ 2.03	**98.0**
				Material Description: REDDISH GREY & BROWN SILTY CLAY							
35183	10:00	150	LOT 519 LOC ON ATT PLAN R.L. 18.22	35183	-	26.5	25.0	~~Adj.~~ 1.5 WET	1.97	~~Adj.~~ 1.98	**99.5**
				Material Description: LIGHT REDDISH BROWN CLAY							
35184	10:20	150	LOT 502 LOC ON ATT PLAN R.L. 19.18	35184	-	23.0	24.0	~~Adj.~~ 1.0 DRY	1.96	~~Adj.~~ 1.96	**100.0**
				Material Description: BROWN SILTY 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: 10/07/2025

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: 10/07/2025

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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.	51243
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	16/07/2025	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 %
35252	11:00	150	LOT 505 LOC ON ATT PLAN R.L. 18.73	35252	-	22.5	23.0	~~Adj.~~ 0.5 DRY	1.98	~~Adj.~~ 2.04	**97.0**
				Material Description: BROWN SILTY CLAY							
35253	11:30	150	LOT 506 LOC ON ATT PLAN R.L. 19.04	35253	-	21.5	22.5	~~Adj.~~ 1.0 DRY	1.96	~~Adj.~~ 1.99	**98.5**
				Material Description: 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: 17/07/2025

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: 17/07/2025

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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.	51269
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	29/07/2025	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 %
35360	10:30	150	LOT 510 LOC ON ATT PLAN R.L. 19.67	35360	-	22.5	22.0	~~Adj.~~ 0.5 WET	2.04	~~Adj.~~ 2.06	**99.0**
				Material Description: BROWN SILTY CLAY							
35361	12:30	150	LOT 507 LOC ON ATT PLAN R.L. 19.38	35361	-	21.5	21.5	~~Adj.~~ -	2.06	~~Adj.~~ 2.07	**99.5**
				Material Description: BROWN SILTY CLAY							
35362	14:30	150	LOT 508 LOC ON ATT PLAN R.L. 19.05	35362	-	23.0	23.0	~~Adj.~~ -	2.05	~~Adj.~~ 2.02	**101.5**
				Material Description: BROWN SILTY 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: 30/07/2025

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: 30/07/2025

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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.	51272
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	30/07/2025	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 %
35371	10:30	150	LOT 505 LOC ON ATT PLAN R.L. 19.59	35371	-	22.5	21.5	~~Adj.~~ 1.0 WET	2.06	~~Adj.~~ 2.04	**101.0**
				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: 31/07/2025

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: 31/07/2025

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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.	51284
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	04/08/2025	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 %
35421	10:30	150	LOT 504 LOC ON ATT PLAN R.L. 19.71	35421	-	22.5	23.0	~~Adj.~~ 0.5 DRY	1.95	~~Adj.~~ 1.95	**100.0**
				Material Description: REDDISH GREY & BROWN CLAY							
35422	11:00	150	LOT 507 LOC ON ATT PLAN R.L. 19.78	35422	-	21.0	22.0	~~Adj.~~ 1.0 DRY	1.96	~~Adj.~~ 1.97	**99.5**
				Material Description: REDDISH GREY & BROWN 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: 05/08/2025

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: 05/08/2025

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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.	51309
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	13/08/2025	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 %
35461	12:10	150	LOT 521 LOC ON ATT PLAN R.L. 17.36	35461	-	23.5	24.0	~~Adj.~~ 0.5 DRY	1.99	~~Adj.~~ 1.98	**100.5**
				Material Description: GREY BROWN SILTY CLAY							
35462	15:00	150	LOT 524 LOC ON ATT PLAN R.L. 17.74	35462	-	22.0	22.0	~~Adj.~~ -	2.05	~~Adj.~~ 2.02	**101.5**
				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: 15/08/2025

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: 15/08/2025

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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.	51336
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	29/08/2025	Tested by	GMG

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 %
35612	8:05	150	ROAD 102 LOC ON ATT PLAN R.L. 17.94	35612	-	23.0	21.5	~~Adj.~~ 1.5 WET	2.03	~~Adj.~~ 2.08	**97.5**
				Material Description: YELLOW BROWN SILTY CLAY							
35613	9:40	150	LOT 522 LOC ON ATT PLAN R.L. 18.15	35613	-	22.5	22.0	~~Adj.~~ 0.5 WET	1.97	~~Adj.~~ 2.04	**96.5**
				Material Description: REDDISH BROWN SILTY CLAY							
35614	12:45	150	LOT 523 LOC ON ATT PLAN R.L. 18.43	35614	-	24.0	23.0	~~Adj.~~ 1.0 WET	2.01	~~Adj.~~ 2.00	**100.5**
				Material Description: REDDISH BROWN SILTY 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: 01/09/2025

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: 01/09/2025

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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.	51338
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	01/09/2025	Tested by	GMG

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 %
35624	11:00	150	LOT 547 LOC ON ATT PLAN R.L. 16.50	35624	-	20.5	20.5	~~Adj.~~ -	2.03	~~Adj.~~ 2.03	**100.0**
				Material Description: YELLOW BROWN SILTY CLAY							
35626	11:30	150	LOT 556 LOC ON ATT PLAN R.L. 16.97	35626	-	19.0	18.0	~~Adj.~~ 1.0 WET	2.04	~~Adj.~~ 2.07	**98.5**
				Material Description: 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: 02/09/2025

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: 02/09/2025

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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.	51341
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	03/09/2025	Tested by	GMG

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 %
35651	10:30	150	LOT 543 LOC ON ATT PLAN R.L. 16.07	35651	-	26.0	25.5	~~Adj.~~ 0.5 WET	1.97	~~Adj.~~ 1.96	**100.5**
				Material Description: GREY BROWN SILTY CLAY							
35652	11:00	150	LOT 548 LOC ON ATT PLAN R.L. 16.91	35652	-	19.5	19.0	~~Adj.~~ 0.5 WET	2.05	~~Adj.~~ 2.07	**99.0**
				Material Description: BROWN SILTY CLAY							
35653	13:15	150	LOT 549 LOC ON ATT PLAN R.L. 16.67	35653	-	17.5	17.5	~~Adj.~~ -	2.15	~~Adj.~~ 2.10	**102.5**
				Material Description: BROWN SILTY 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: 04/09/2025

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: 04/09/2025

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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.	51342
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	05/09/2025	Tested by	GMG

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 %
35673	9:20	150	ROAD 103 LOC ON ATT PLAN R.L. 16.70	35673	-	20.0	19.5	~~Adj.~~ 0.5 WET	2.15	~~Adj.~~ 2.08	**103.5**
				Material Description: YELLOW BROWN SILTY CLAY							
35674	10:15	150	LOT 546 LOC ON ATT PLAN R.L. 16.72	35674	-	23.5	24.0	~~Adj.~~ 0.5 DRY	2.00	~~Adj.~~ 2.00	**100.0**
				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: 08/09/2025

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: 08/09/2025

Brisbane Soil Testing
20/1191 Anzac Ave
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Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	51348
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	08/09/2025	Tested by	GMG

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 %
35677	12:10	150	LOT 542 LOC ON ATT PLAN R.L. 16.52	35677	-	25.5	24.0	~~Adj.~~ 1.5 WET	1.96	~~Adj.~~ 2.00	**98.0**
				Material Description: GREY BROWN SILTY CLAY							
35678	12:50	150	LOT 550 LOC ON ATT PLAN R.L. 17.81	35678	-	25.5	25.5	~~Adj.~~ -	1.95	~~Adj.~~ 1.97	**99.0**
				Material Description: GREY BROWN SILTY CLAY							
35680	15:30	150	LOT 555 LOC ON ATT PLAN R.L. 17.95	35680	-	24.0	23.5	~~Adj.~~ 0.5 WET	1.99	~~Adj.~~ 2.02	**98.5**
				Material Description: GREY BROWN SILTY 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: 09/09/2025

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: 09/09/2025

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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.	51351
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	11/09/2025	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 %
35695	7:45	150	LOT 525 LOC ON ATT PLAN R.L. 18.62	35695	-	24.5	23.0	~~Adj.~~ 1.5 WET	2.00	~~Adj.~~ 2.02	**99.0**
				Material Description: GREY BROWN SILTY CLAY							
35696	8:20	150	LOT 526 LOC ON ATT PLAN R.L. 18.67	35696	-	26.0	25.5	~~Adj.~~ 0.5 WET	1.99	~~Adj.~~ 1.96	**101.5**
				Material Description: GREY BROWN SILTY CLAY							
35697	13:45	150	LOT 524 LOC ON ATT PLAN R.L. 19.10	35697	-	24.5	24.0	~~Adj.~~ 0.5 WET	2.05	~~Adj.~~ 1.98	**103.5**
				Material Description: GREY BROWN SILTY CLAY							
35698	14:25	150	LOT 521 LOC ON ATT PLAN R.L. 19.02	35698	-	16.5	17.0	~~Adj.~~ 0.5 DRY	2.10	~~Adj.~~ 2.11	**99.5**
				Material Description: DARK BROWN 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: 12/09/2025

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
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Date: 12/09/2025

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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.	51354
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	12/09/2025	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 %
35707	10:00	150	ROAD 102 LOC ON ATT PLAN R.L. 18.58	35707	-	23.5	23.0	~~Adj.~~ 0.5 WET	2.04	~~Adj.~~ 2.07	**98.5**
				Material Description: BROWN SILTY CLAY							
35708	10:30	150	LOT 523 LOC ON ATT PLAN R.L. 19.30	35708	-	24.5	23.5	~~Adj.~~ 1.0 WET	1.96	~~Adj.~~ 1.99	**98.5**
				Material Description: 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: 15/09/2025

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: 15/09/2025

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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.	51359
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	15/09/2025	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 %
35710	8:40	150	LOT 527 LOC ON ATT PLAN R.L. 18.50	35710	-	21.5	20.5	~~Adj.~~ 1.0 WET	2.01	~~Adj.~~ 2.02	**99.5**
				Material Description: BROWN SILTY CLAY							
35711	10:00	150	LOT 555 LOC ON ATT PLAN R.L. 18.39	35711	-	18.5	18.0	~~Adj.~~ 0.5 WET	2.00	~~Adj.~~ 2.06	**97.0**
				Material Description: 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: 16/09/2025

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: 16/09/2025

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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.	51361
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	16/09/2025	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 %
35720	7:30	150	LOT 556 LOC ON ATT PLAN R.L. 18.64	35720	-	20.5	20.0	~~Adj.~~ 0.5 WET	1.96	~~Adj.~~ 2.05	**95.5**
				Material Description: REDDISH BROWN SILTY CLAY							
35721	8:15	150	LOT 526 LOC ON ATT PLAN R.L. 19.15	35721	-	22.5	21.5	~~Adj.~~ 1.0 WET	1.97	~~Adj.~~ 2.05	**96.0**
				Material Description: ORANGE 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: 17/09/2025

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: 17/09/2025

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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.	51363
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	17/09/2025	Tested by	GMG

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 %
35771	9:50	150	LOT 522 LOC ON ATT PLAN R.L. 19.49	35771	-	23.5	23.0	~~Adj.~~ 0.5 WET	2.01	~~Adj.~~ 2.04	**98.5**
				Material Description: YELLOW BROWN SILTY CLAY							
35772	10:35	150	ROAD 102 LOC ON ATT PLAN R.L. 19.03	35772	-	25.0	25.0	~~Adj.~~ -	1.95	~~Adj.~~ 1.96	**99.5**
				Material Description: 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: 18/09/2025

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: 18/09/2025

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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.	51364
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	18/09/2025	Tested by	GMG

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 %
35782	7:30	150	LOT 541 LOC ON ATT PLAN R.L. 16.65	35782	-	23.0	21.5	~~Adj.~~ 1.5 WET	2.00	~~Adj.~~ 2.04	**98.0**
				Material Description: REDDISH BROWN SILTY CLAY							
35783	8:10	150	LOT 548 LOC ON ATT PLAN R.L. 17.19	35783	-	22.5	22.5	~~Adj.~~ -	1.99	~~Adj.~~ 2.00	**99.5**
				Material Description: ORANGE BROWN SILTY CLAY							
35784	11:40	150	LOT 554 LOC ON ATT PLAN R.L. 18.53	35784	-	22.5	22.0	~~Adj.~~ 0.5 WET	2.00	~~Adj.~~ 2.05	**97.5**
				Material Description: REDDISH BROWN SILTY CLAY							
35785	13:30	150	LOT 527 LOC ON ATT PLAN R.L. 19.20	35785	-	21.0	20.0	~~Adj.~~ 1.0 WET	2.04	~~Adj.~~ 2.06	**99.0**
				Material Description: BROWN 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: 19/09/2025

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: 19/09/2025

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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.	51366
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	19/09/2025	Tested by	GMG

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 %
35787	8:00	150	LOT 553 LOC ON ATT PLAN R.L. 18.97	35787	-	19.0	18.5	~~Adj.~~ 0.5 WET	2.04	~~Adj.~~ 2.08	**98.0**
				Material Description: ORANGE BROWN SILTY CLAY							
35788	8:45	150	LOT 555 LOC ON ATT PLAN R.L. 19.36	35788	-	20.0	19.0	~~Adj.~~ 1.0 WET	2.06	~~Adj.~~ 2.11	**97.5**
				Material Description: REDDISH 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: 22/09/2025

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: 22/09/2025

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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.	51373
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	22/09/2025	Tested by	GMG

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 %
35808	7:30	150	LOT 517 LOC ON ATT PLAN R.L. 18.34	35808	-	21.0	20.5	~~Adj.~~ 0.5 DRY	2.00	~~Adj.~~ 2.06	**97.0**
				Material Description: YELLOW BROWN SILTY CLAY							
35809	9:15	150	LOT 515 LOC ON ATT PLAN R.L. 18.60	35809	-	20.5	19.5	~~Adj.~~ 1.0 WET	2.03	~~Adj.~~ 2.09	**97.0**
				Material Description: ORANGE BROWN SILTY CLAY							
35810	14:20	150	LOT 516 LOC ON ATT PLAN R.L. 19.05	35810	-	25.0	22.5	~~Adj.~~ 2.5 WET	1.98	~~Adj.~~ 2.04	**97.0**
				Material Description: ORANGE BROWN SILTY 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: 23/09/2025

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: 23/09/2025

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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.	51375
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	23/09/2025	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 %
35819	8:35	150	LOT 520 LOC ON ATT PLAN R.L. 19.47	35819	-	22.0	21.5	~~Adj.~~ 0.5 WET	2.03	~~Adj.~~ 2.03	**100.0**
				Material Description: REDDISH BROWN SILTY CLAY							
35820	10:45	150	LOT 516 LOC ON ATT PLAN R.L. 19.62	35820	-	20.0	18.5	~~Adj.~~ 1.5 WET	2.11	~~Adj.~~ 2.09	**101.0**
				Material Description: ORANGE BROWN SILTY CLAY							
35821	13:50	150	LOT 554 LOC ON ATT PLAN R.L. 19.32	35821	-	20.5	19.0	~~Adj.~~ 1.5 WET	2.04	~~Adj.~~ 2.09	**97.5**
				Material Description: GREY BROWN SILTY 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: 24/09/2025

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: 24/09/2025

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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.	51377
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	24/09/2025	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 %
35826	10:30	150	LOT 553 LOC ON ATT PLAN R.L. 19.37	35826	-	21.5	23.0	~~Adj.~~ 1.5 WET	2.02	~~Adj.~~ 2.01	**100.5**
				Material Description: ORANGE BROWN SILTY CLAY							
35827	11:00	150	LOT 552 LOC ON ATT PLAN R.L. 19.22	35827	-	22.0	21.5	~~Adj.~~ 0.5 WET	2.11	~~Adj.~~ 2.06	**102.5**
				Material Description: ORANGE 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: 25/09/2025

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: 25/09/2025

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

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	51386
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	29/09/2025	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 %
35849	8:15	150	LOT 514 LOC ON ATT PLAN R.L. 19.22	35849	-	20.5	20.5	~~Adj.~~ -	1.98	~~Adj.~~ 2.05	**96.5**
				Material Description: YELLOW BROWN & GREY SILTY CLAY							
35850	9:05	150	LOT 513 LOC ON ATT PLAN R.L. 19.39	35850	-	19.0	18.0	~~Adj.~~ 1.0 WET	2.09	~~Adj.~~ 2.13	**98.0**
				Material Description: DARK BROWN SILTY CLAY							
35851	14:30	150	LOT 514 LOC ON ATT PLAN R.L. 19.82	35851	-	19.0	17.5	~~Adj.~~ 1.5 WET	2.09	~~Adj.~~ 2.09	**100.0**
				Material Description: BROWN SILTY CLAY							
35852	15:20	150	LOT 513 LOC ON ATT PLAN R.L. 19.90	35852	-	21.0	19.5	~~Adj.~~ 1.5 WET	2.05	~~Adj.~~ 2.06	**99.5**
				Material Description: BROWN 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: 30/09/2025

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: 30/09/2025

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

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	51390
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	02/10/2025	Tested by	JM GMG

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 %
35875	9:15	150	LOT 528 LOC ON ATT PLAN R.L. 19.39	35875	-	21.5	21.0	~~Adj.~~ 0.5 WET	2.06	~~Adj.~~ 2.07	**99.5**
				Material Description: YELLOW BROWN SILTY CLAY							
35876	9:30	150	LOT 550 LOC ON ATT PLAN R.L. 18.93	35876	-	22.0	21.0	~~Adj.~~ 1.0 WET	2.02	~~Adj.~~ 2.06	**98.0**
				Material Description: ORANGE BROWN SILTY CLAY							
35877	10:05	150	LOT 512 LOC ON ATT PLAN R.L. 20.01	35877	-	21.0	21.0	~~Adj.~~ -	1.99	~~Adj.~~ 2.04	**97.5**
				Material Description: REDDISH BROWN SILTY CLAY							
35878	10:20	150	LOT 509 LOC ON ATT PLAN R.L. 19.86	35878	-	22.0	21.5	~~Adj.~~ 0.5 WET	2.00	~~Adj.~~ 2.03	**98.5**
				Material Description: REDDISH BROWN SILTY CLAY							
35879	10:55	150	LOT 501 LOC ON ATT PLAN R.L. 19.63	35879	-	22.5	22.0	~~Adj.~~ 0.5 WET	2.03	~~Adj.~~ 2.05	**99.0**
				Material Description: ORANGE 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: 03/10/2025

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: 03/10/2025

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

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	51834
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	12/03/2026	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 %
37186	7:30	150	LOT 544 2m Rear bdy, 3m Left bdy R.L. 16.30	37186	-	22.5	23.5	~~Adj.~~ 1.0 DRY	1.96	~~Adj.~~ 2.01	**97.5**
				Material Description: LIGHT GREY BROWN SILTY CLAY							
37187	8:20	150	LOT 543 10m Rear bdy, 2m Left bdy R.L. 16.57	37187	-	20.5	20.0	~~Adj.~~ 0.5 WET	2.06	~~Adj.~~ 2.04	**101.0**
				Material Description: YELLOW BROWN SILTY CLAY							
37188	10:20	150	LOT 545 3m Front bdy, 3m Right bdy R.L. 17.49	37188	-	22.5	22.5	~~Adj.~~ -	1.99	~~Adj.~~ 2.05	**97.0**
				Material Description: ORANGE BROWN SILTY CLAY							
37189	12:45	150	LOT 541 2m Rear bdy, 3m Left bdy R.L. 17.20	37189	-	21.0	21.5	~~Adj.~~ 0.5 DRY	2.08	~~Adj.~~ 2.07	**100.5**
				Material Description: ORANGE BROWN SILTY CLAY							
37190	15:20	150	LOT 549 4m Front bdy, 2m Left bdy R.L. 17.52	37190	-	21.0	22.5	~~Adj.~~ 1.5 DRY	2.10	~~Adj.~~ 2.06	**102.0**
				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: 17/03/2026

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: 17/03/2026

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

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	51863
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	23/03/2026	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 %
37249	11:30	150	LOT 548 14m Rear bdy, 5m Right bdy R.L. 18.35	37249	-	17.5	19.0	~~Adj.~~ 1.5 DRY	2.02	~~Adj.~~ 2.08	**97.0**
				Material Description: ORANGE BROWN SILTY CLAY							
37250	12:30	150	LOT 542 2m Rear bdy, 5m Left bdy R.L. 18.48	37250	-	18.5	19.5	~~Adj.~~ 1.0 DRY	2.03	~~Adj.~~ 2.07	**98.0**
				Material Description: ORANGE BROWN SILTY CLAY							
37251	13:00	150	LOT 540 6m Front bdy, 2m Left bdy R.L. 18.68	37251	-	25.5	24.5	~~Adj.~~ 1.0 WET	1.97	~~Adj.~~ 2.02	**97.5**
				Material Description: ORANGE BROWN & GREY SILTY CLAY							
37252	14:00	150	LOT 546 5m Front bdy, 2m Right bdy R.L. 18.10	37252	-	20.0	18.0	~~Adj.~~ 2.0 WET	1.95	~~Adj.~~ 2.12	**92.0**
				Material Description: BROWN 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: 25/03/2026

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: 25/03/2026

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

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	51935
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	14/04/2026	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 %
37501	14:30	150	LOT 544 8m Rear bdy, 5m Left bdy R.L. 17.79	37501	-	22.5	23.5	~~Adj.~~ 1.0 DRY	2.01	~~Adj.~~ 2.04	**98.5**
				Material Description: ORANGE BROWN SILTY CLAY							
37502 **RETEST**	15:25	150	LOT 546 6m Front bdy, 2m Right bdy R.L. 18.13	37502	-	19.0	19.0	~~Adj.~~ -	2.03	~~Adj.~~ 2.09	**97.0**
				Material Description: BROWN SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~Adj.~~		~~Adj.~~	
				Material Description:							

Remarks: **Sample number 37502 is a retest of sample number 37252.**

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: 16/04/2026

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: 16/04/2026

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

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	52154
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	03/07/2026	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 %
38308	8:10	150	LOT 547 5m Front bdy, 3m Left bdy R.L. 18.49	38308	-	18.5	20.0	~~Adj.~~ 1.5 DRY	2.08	~~Adj.~~ 2.09	**99.5**
				Material Description: BROWN SILTY SANDY CLAY							
38309	10:20	150	LOT 545 7m Front bdy, 2m Left bdy R.L. 18.22	38309	-	21.5	22.0	~~Adj.~~ 0.5 DRY	2.01	~~Adj.~~ 2.06	**97.5**
				Material Description: BROWN SILTY CLAY							
38310	11:45	150	LOT 539 4m Front bdy, 1m Right bdy R.L. 18.64	38310	-	19.5	21.5	~~Adj.~~ 2.0 DRY	2.07	~~Adj.~~ 2.06	**100.5**
				Material Description: BROWN SILTY CLAY							
38311	13:05	150	LOT 549 8m Rear bdy, 3m Left bdy R.L. 18.41	38311	-	21.0	22.5	~~Adj.~~ 1.5 DRY	1.97	~~Adj.~~ 2.04	**96.5**
				Material Description: GREY BROWN 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: 08/07/2026

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: 08/07/2026

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

5th of November 2024

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

Attn Alex Wood

RE: AIRE – STAGES 3-5 *(INTERIM REPORT)*
(Bulk Earthworks Fill – Geotechnical Inspection & Testing)
(This report is interim in that it does not include bulk earthworks filling still to be completed and final RPEQ certification).

SCOPE

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

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 RPEQ Certification

CONTROL INSPECTION AND TESTING

An inspection of the areas to be filled was carried out on 22nd 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 and 825 compactor.

Sixty-Four field density tests were carried out between 28th of May 2024 and 24th of September 2024. These tests recorded Dry Density Ratios between 97.0% and 104.0% relative to the standard compaction test and field moisture contents within –3.0% and +2.5% of their respective optimum moisture contents, AS1289.5.1.1.

Attached documents B194/4 (Stage 3 Report Nos. 49938, 49944, 49945, 49965, 50014, 50092, 50097, 50103, 50114 & 50198), (Stage 4 Report Nos. 50318 & 50388) and (Stage 5 Report Nos. 50096, 50113, 50118, 50202, 50203, 50209, 50319, 50320, 50327, 50368, 50370, 50382 & 50387) provide full test data for the compaction control tests.

CONCLUSION

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

We confirm that all vegetation and topsoil was removed, and that a sound base for the proposed filling was provided.

We further confirm that all filling to the levels and lateral extents shown on the attached Sunrise Surveying survey plan, Rev A dated 01/11/2024 titled "Controlled Fill Extents" can be termed controlled filling in accordance with Section 6.4.2 of AS2870-2011, via "Level 1" inspection and testing commission.

GREG McGRANN
BRISBANE SOIL TESTING
MANAGING DIRECTOR

Attachments:

Level 1 Test Locations

Sunrise Surveying "Controlled Fill Extents"

Field Density Test Reports

BULK EARTHWORKS TEST LOCATIONS

LEGEND

- PROPOSED AREA OF WORKS
- STAGE BOUNDARY
- 24.0 PROPOSED SURFACE CONTOUR
- 24.0 EXISTING SURFACE CONTOUR
- 24.60 PROPOSED FINISHED SURFACE LEVEL (FSL) (AFTER TOPSOIL PLACEMENT)
- 24.60 EXISTING SURFACE LEVEL (ESL)
- PROPOSED AREA OF CUT (197m^3)
- PROPOSED AREA OF FILL (9568m^3)
- EXISTING WATER BODY OUTLINE
- WT FUTURE TRUNK WATERMAIN
- EO EXISTING OVERHEAD ELECTRICITY
- X-POLE

N

MAPPED WATERWAY EARTHWORKS				
EARTHWORKS ZONE	TO EXISTING (NO EXISTING WATER			
	CUT (m³)	FILL (m³)	BALANCE (m^3)	
MAPPED WATERWAY (WB3 + WB4)	197	9370	-9173	
TOTAL	**197**	**9370**	**-9173**	IMPORT

BULK EARTHWORKS VOLUME PARAMETERS

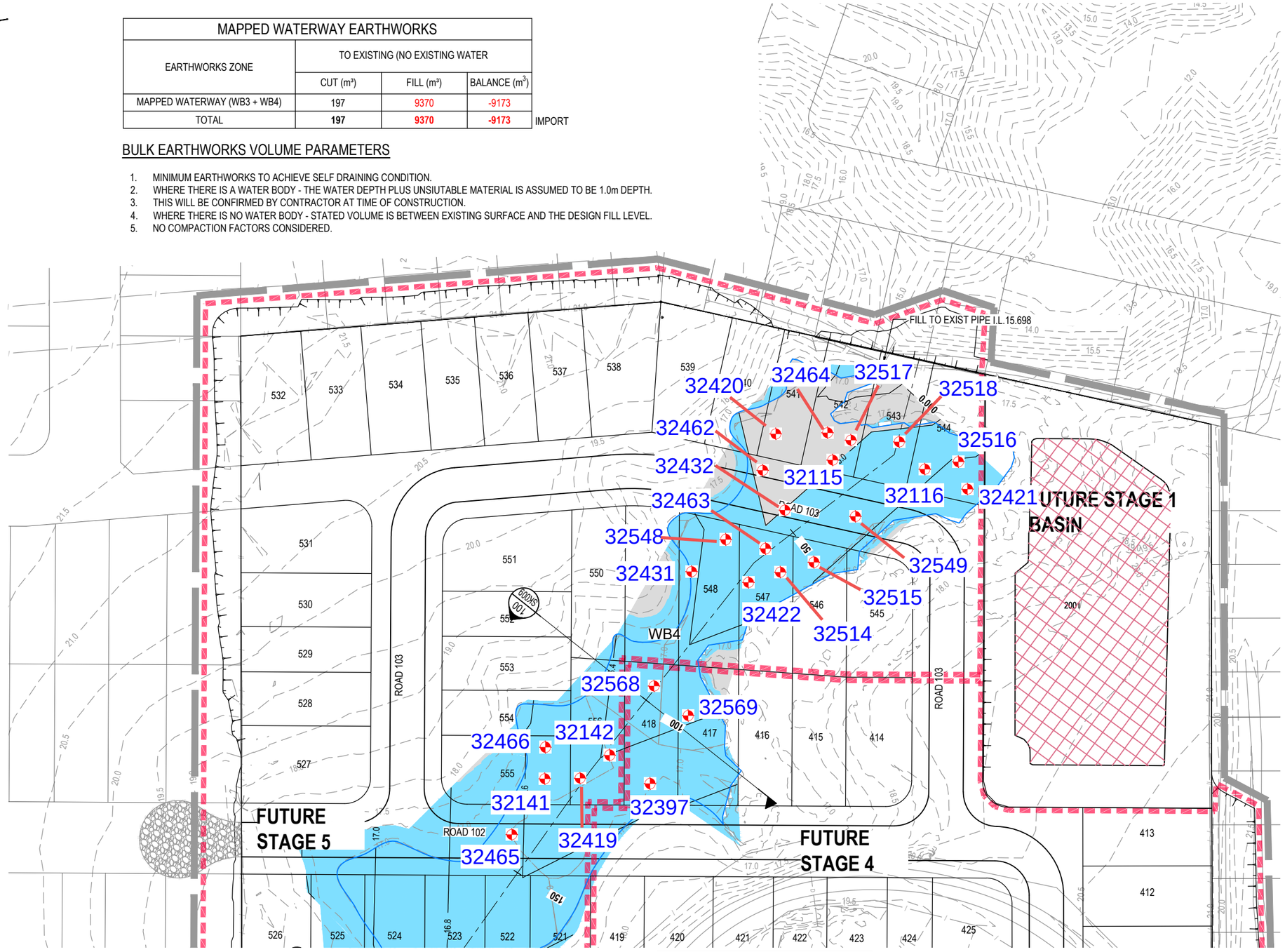
1. MINIMUM EARTHWORKS TO ACHIEVE SELF DRAINING CONDITION.
2. WHERE THERE IS A WATER BODY - THE WATER DEPTH PLUS UNSIUTABLE MATERIAL IS ASSUMED TO BE 1.0m DEPTH.
3. THIS WILL BE CONFIRMED BY CONTRACTOR AT TIME OF CONSTRUCTION.
4. WHERE THERE IS NO WATER BODY - STATED VOLUME IS BETWEEN EXISTING SURFACE AND THE DESIGN FILL LEVEL.
5. NO COMPACTION FACTORS CONSIDERED.

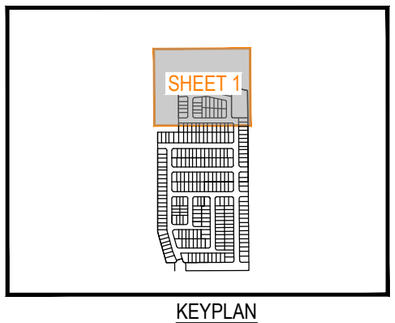
WARNING! - EXISTING SERVICES

EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

- 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.





KEYPLAN
SCALE: 1:10000 (A1)
SCALE: 1:20000 (A3)

Received
BMD Urban Pty Ltd
07/05/2024

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	05.03.24	DC	RD	ORIGINAL ISSUE

DRAWN
DESIGN

STATUS: **NOT FOR CONSTRUCTION**
APPROVED: TAIT McCARTHY RPEQ 28026
FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD

Colliers

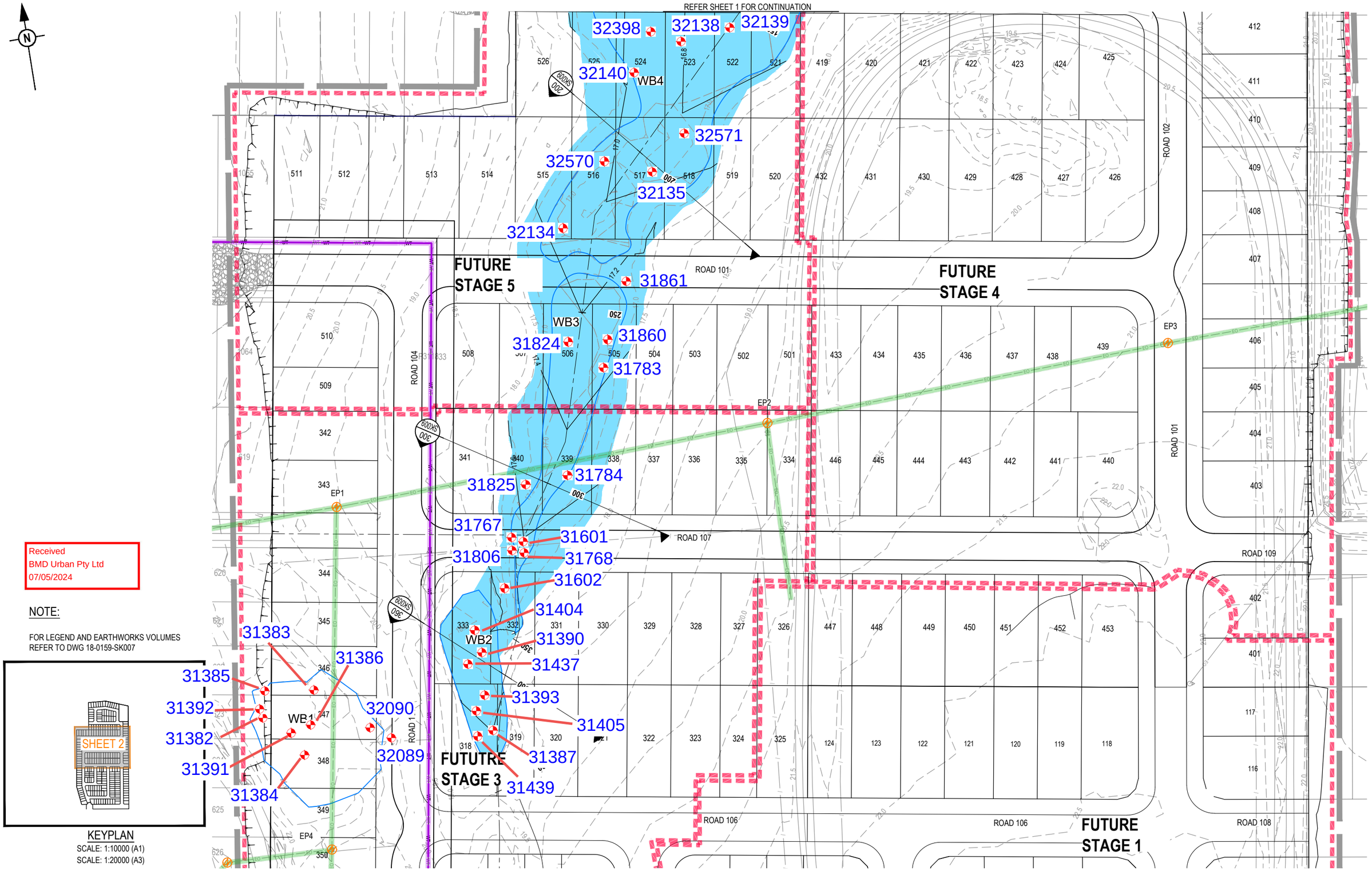
SCALE: 1:500 10 5 0 10 20 A1; 1:1000 A3

CLIENT: **ORCHARD (CRAIG ROAD) DEVELOPMENTS PTY LTD**
ASSOCIATED CONSULTANT: LAND PARTNERS (07) 3842 1000

PROJECT NAME: **AIRE - BULK EARTHWORKS STAGES 3-5**

DRAWING TITLE: **WATERWAY BULK EARTHWORKS LAYOUT PLAN SHEET 1 OF 2**

PROJECT No.	DRAWING No.	REVISION
18-0159	SK007	1



Received
BMD Urban Pty Ltd
07/05/2024

NOTE:

FOR LEGEND AND EARTHWORKS VOLUMES
REFER TO DWG 18-0159-SK007

KEYPLAN
SCALE: 1:10000 (A1)
SCALE: 1:20000 (A3)

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	05.03.24	DC	RD	ORIGINAL ISSUE

DRAWN
DESIGN

STATUS: NOT FOR CONSTRUCTION

APPROVED: TAIT McCARTHY RPEQ 28026

FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD

Colliers

SCALE
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1:1000 A3

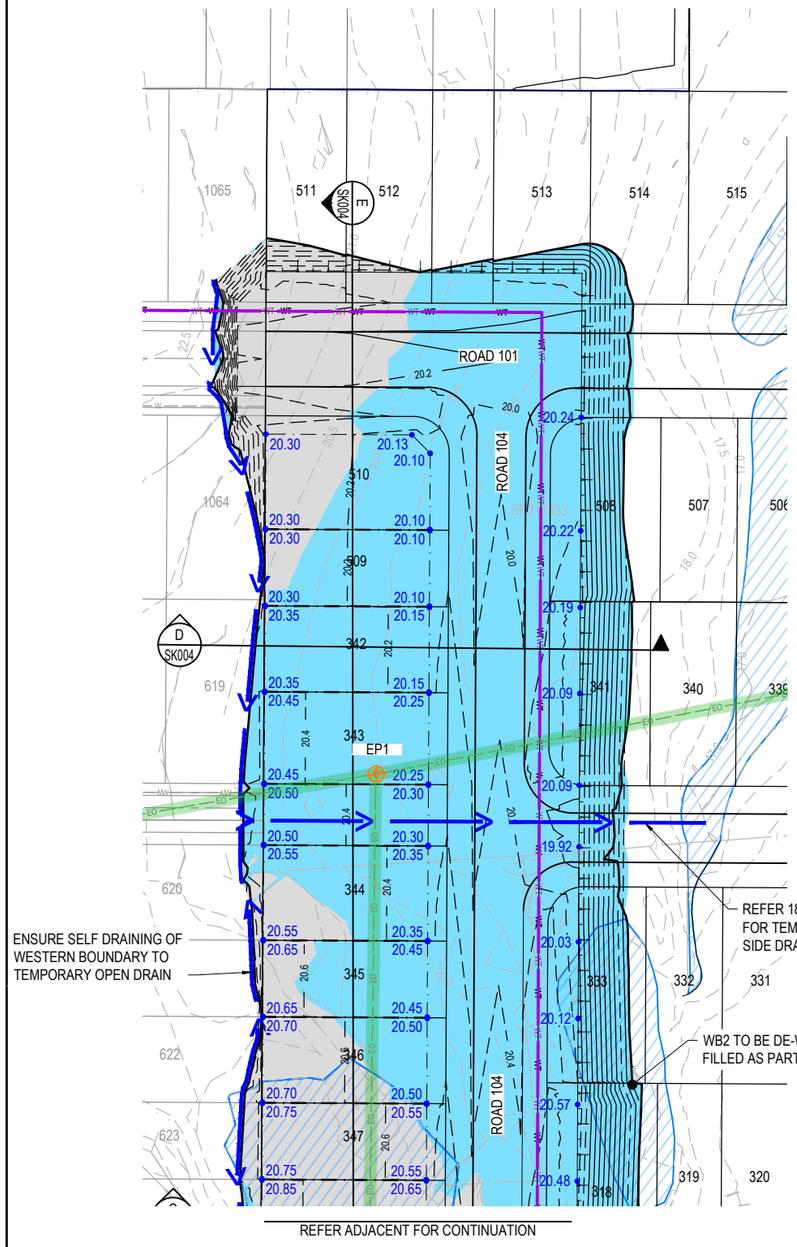
CLIENT: ORCHARD (CRAIG ROAD) DEVELOPMENTS PTY LTD

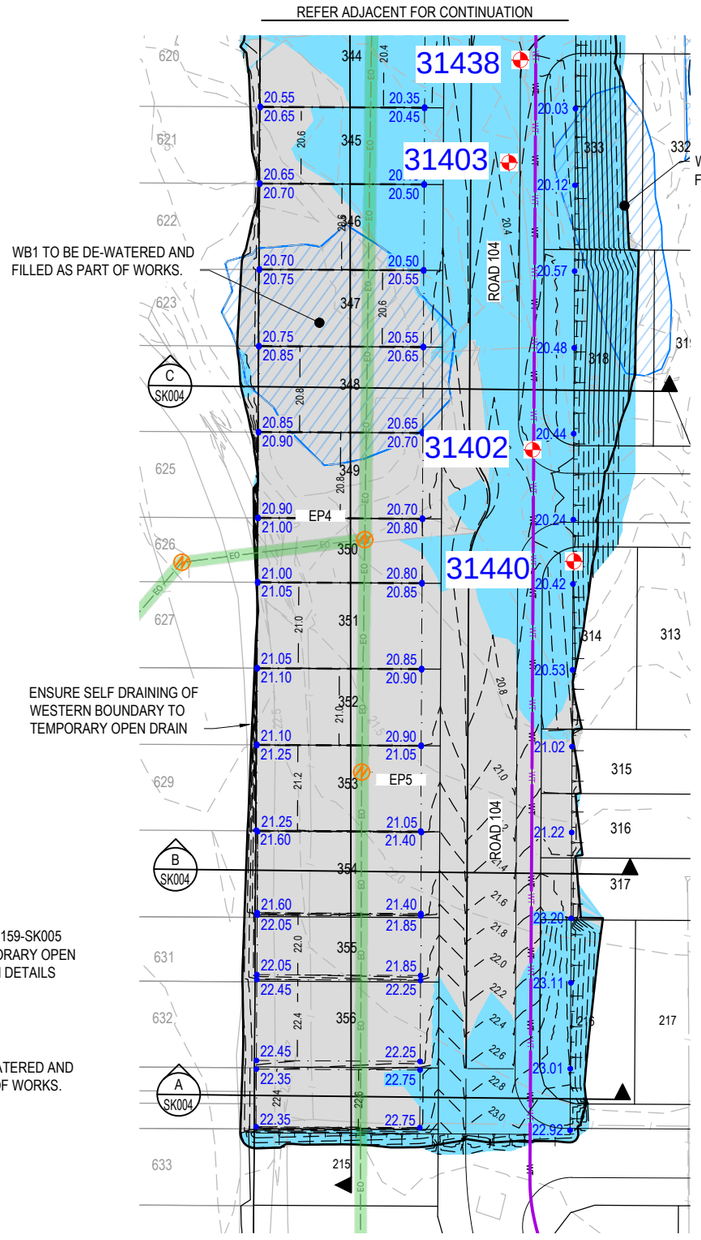
ASSOCIATED CONSULTANT: LAND PARTNERS (07) 3842 1000

PROJECT NAME: AIRE - BULK EARTHWORKS STAGES 3-5

DRAWING TITLE: WATERWAY BULK EARTHWORKS LAYOUT PLAN SHEET 2 OF 2

PROJECT No.	DRAWING No.	REVISION
18-0159	SK008	1





LEGEND

- PROPOSED AREA OF WORKS
- STAGE BOUNDARY
- 24.0 PROPOSED SURFACE CONTOUR
- 24.0 EXISTING SURFACE CONTOUR
- PROPOSED EARTHWORKS PAD
- 24.60 PROPOSED FINISHED SURFACE LEVEL (FSL) (AFTER TOPSOIL PLACEMENT)
- 24.60 EXISTING SURFACE LEVEL (ESL)
- PROPOSED AREA OF CUT
- PROPOSED AREA OF FILL
- FUTURE NDP1 TRUNK WATER
- EXISTING OVERHEAD ELECTRICITY
- EXISTING FENCELINE
- EXISTING ROAD TRACK
- EXISTING MAPPED WATERWAY

WARNING! - EXISTING SERVICES

EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

- 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.

DEWATERING & FILLING OF EXISTING WATER BODIES WB1 & WB2

EXISTING DAMS TO BE DEWATERED AND GEOTECHNICAL CERTIFICATION PROVIDED TO CONFIRM FILL IN ACCORDANCE WITH AS3798

NOTE:

ALL SURFACES TO BE GRASS SEEDED

Received
BMD Urban Pty Ltd
07/05/2024

AIRE - INTERIM BULK EARTHWORKS

EARTHWORKS ZONE	TO EXISTING (NO EXISTING WATER		TO UNSUITABLE BOTTOM (EXISTING WATER BODY)			
	CUT (m³)	FILL (m³)	AREA (m²)	DEPTH (m²)	FILL VOLUME (m²)	BALANCE
EMBANKMENT & OPEN SIDE DRAIN	7094	3404				3690
WATER BODY 1			1027	1	1027	2663
WATER BODY 2			576	1	576	2087
TOTAL	7094	3404	1603	2		2087

BULK EARTHWORKS VOLUME PARAMETERS

1. MINIMUM EARTHWORKS TO ACHIEVE SELF DRAINING CONDITION
2. WHERE THERE IS A WATER BODY - THE WATER DEPTH PLUS UNSIUTABLE MATERIAL IS ASSUMED TO BE 1.0m DEPTH. THIS WILL BE CONFIRMED BY CONTRACTOR AT TIME OF CONSTRUCTION.
3. WHERE THERE IS NO WATER BODY - STATED VOLUME IS BETWEEN EXISTING SURFACE AND THE DESIGN FILL LEVEL.
4. NO COMPACTION FACTORS CONSIDERED

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	05.03.24	DC	AF	ORIGINAL ISSUE

DRAWN

DESIGN

STATUS: **NOT FOR CONSTRUCTION**

APPROVED: TAIT McCARTHY RPEQ 28026

FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD

Colliers

SCALE: 1:500 / 1:1000 — 10 5 0 10 20 — A1 / A3

CLIENT: **ORCHARD (CRAIG ROAD) DEVELOPMENTS PTY LTD**

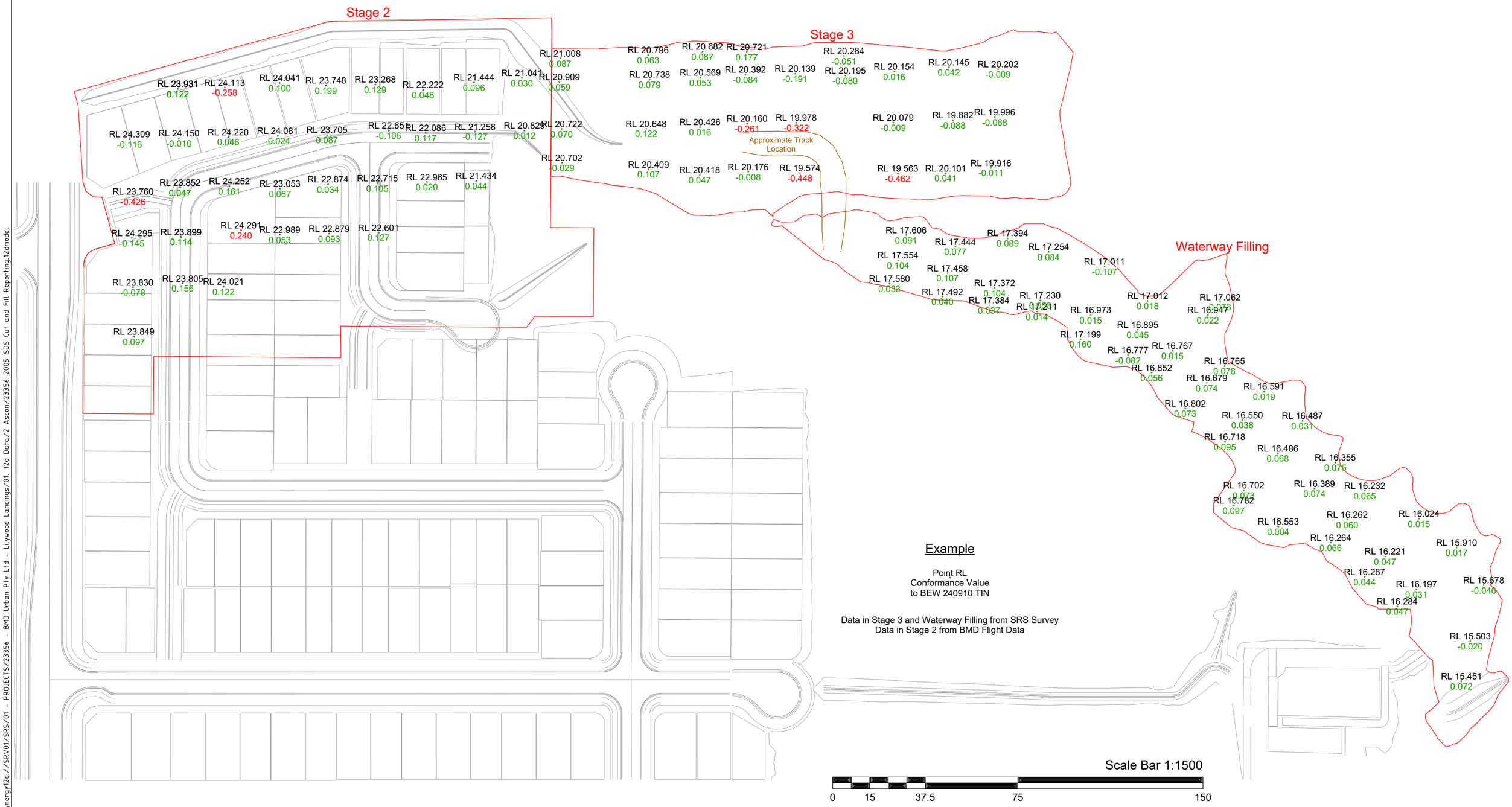
ASSOCIATED CONSULTANT: LAND PARTNERS (07) 3842 1000

PROJECT NAME: **AIRE - BULK EARTHWORKS STAGES 3-5**

DRAWING TITLE: **LAYOUT PLAN**

PROJECT No.	DRAWING No.	REVISION
18-0159	SK003	1

CONTROLLED FILL EXTENTS



REV.	DATE	DESCRIPTION	DRAWN	SURV	CHKD
A	02/11/24	Issued for Information	SDS	SDS	SDS

SUNRISE SURVEYING

Brisbane (Head Office)
Ground Floor, 18 Finchley St, Milton
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Rockhampton
Level 1, 159 Denison St, Rockhampton
rockhampton@sunrisesurveying.com.au
Yeppoon
47 Normanby St, Yeppoon
yeppoon@sunrisesurveying.com.au

CLIENT. BMD

PROJECT. Lilywood Landings

HORIZONTAL DATUM. VERTICAL DATUM. AHD PSM 72109 RL: 30.422

DRAWING DESCRIPTION. Level 1 Report Stage 2,3 & Waterway Filling

Sheet 1 of 1

DRAWING NAME: 23356 2005 002-A

SCALE. 1: 1500 @ A3

SITE ADDRESS. Caboolture, QLD

LOCAL AUTHORITY MBRC

SURVEY DATE 01/11/24

CONTOUR INTERVAL Minor: - Major: -

REV A

Project Location: Synergy12d://SRV01/SRS/01 - PROJECTS/23356 - BMD Urban Pty Ltd - Lilywood Landings/01. 12d Data/2 Ascon/23356 2005 SDS Cut and Fill Reporting.12dmodel

Drawing Plotted Sunday, November 03, 2024 12:44:48 by SamuelSimpson

Brisbane Soil Testing
20/1191 Anzac Ave
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Ph.(07) 3285 6536
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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49938
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 3	Date Tested	13/06/2024	Tested by	GMG

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 %
31382	7:10	150	LOT 623 BAYCROWN LOC ON ATT PLAN R.L. 18.70	31382	-	25.5	24.5	~~Adj.~~ 1.0 WET	1.96	~~Adj.~~ 1.99	**98.5**
				Material Description: GREY BROWN SILTY CLAY							
31383	7:45	150	LOT 346 LOC ON ATT PLAN R.L. 18.61	31383	-	25.0	25.0	~~Adj.~~ -	1.91	~~Adj.~~ 1.97	**97.0**
				Material Description: REDDISH BROWN & GREY SILTY CLAY							
31384	13:10	150	LOT 348 LOC ON ATT PLAN R.L. 19.14	31384	-	26.5	26.0	~~Adj.~~ 0.5 WET	1.95	~~Adj.~~ 1.96	**99.5**
				Material Description: REDDISH BROWN & GREY SILTY CLAY							
31385	13:45	150	LOT 622 BAYCROWN LOC ON ATT PLAN R.L. 19.29	31385	-	29.0	27.5	~~Adj.~~ 1.5 WET	1.99	~~Adj.~~ 1.97	**101.0**
				Material Description: REDDISH BROWN & GREY SILTY CLAY							
31386	14:50	150	LOT 347 LOC ON ATT PLAN R.L. 19.58	31386	-	18.0	17.0	~~Adj.~~ 1.0 WET	2.04	~~Adj.~~ 2.08	**98.0**
				Material Description: REDDISH BROWN SILTY CLAY & ROCK FRAGMENTS							
31387	15:25	150	LOT 318 LOC ON ATT PLAN R.L. 17.24	31387	-	28.5	27.0	~~Adj.~~ 1.5 WET	1.89	~~Adj.~~ 1.95	**97.0**
				Material Description: GREY 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: 18/06/2024

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: 18/06/2024

Brisbane Soil Testing
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Kallangur Q 4503
Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49944
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 3	Date Tested	14/06/2024	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 %
31390	8:10	150	LOT 333 LOC ON ATT PLAN R.L. 17.72	31390	-	31.0	29.5	~~Adj.~~ 1.5 WET	1.92	~~Adj.~~ 1.95	**98.5**
				Material Description: GREY MOTTLED YELLOW CLAY							
31391	8:45	150	LOT 347 LOC ON ATT PLAN R.L. 20.23	31391	-	17.0	15.5	~~Adj.~~ 1.5 WET	2.02	~~Adj.~~ 2.06	**98.0**
				Material Description: LIGHT BROWN SILTY SANDY CLAY & ROCK FRAGMENTS							
31392	12:30	150	LOT 623 BAYCROWN LOC ON ATT PLAN R.L. 20.31	31392	-	17.0	16.5	~~Adj.~~ 0.5 WET	2.03	~~Adj.~~ 2.01	**101.0**
				Material Description: BROWN SILTY SANDY CLAY							
31393	13:15	150	LOT 318 LOC ON ATT PLAN R.L. 18.40	31393	-	28.5	27.5	~~Adj.~~ 1.0 WET	1.90	~~Adj.~~ 1.95	**97.5**
				Material Description: DARK BROWN 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: 24/06/2024

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: 24/06/2024

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Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49945
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 3	Date Tested	17/06/2024	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 %
31402	13:30	150	ROAD 104 LOC ON ATT PLAN R.L. 20.41	31402	-	22.0	21.0	~~Adj.~~ 1.0 WET	2.02	~~Adj.~~ 2.00	**101.0**
				Material Description: REDDISH BROWN & GREY CLAY							
31403	14:00	150	ROAD 104 LOC ON ATT PLAN R.L. 19.68	31403	-	26.5	25.5	~~Adj.~~ 1.0 WET	1.97	~~Adj.~~ 1.99	**99.0**
				Material Description: GREY BROWN CLAY							
31404	14:30	150	LOT 333 LOC ON ATT PLAN R.L. 18.37	31404	-	23.0	22.5	~~Adj.~~ 0.5 WET	1.98	~~Adj.~~ 2.02	**98.0**
				Material Description: REDDISH BROWN & GREY CLAY							
31405	15:00	150	LOT 318 LOC ON ATT PLAN R.L. 19.10	31405	-	25.0	24.5	~~Adj.~~ 0.5 WET	2.00	~~Adj.~~ 1.98	**101.0**
				Material Description: REDDISH GREY 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: 24/06/2024

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: 24/06/2024

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Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49965
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 3	Date Tested	18/06/2024	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 %
31437	10:15	150	LOT 333 LOC ON ATT PLAN R.L. 19.04	31437	-	16.0	19.0	~~Adj.~~ 3.0 DRY	1.98	~~Adj.~~ 2.03	**97.5**
				Material Description: REDDISH BROWN SILTY SANDY CLAY							
31438	10:40	150	ROAD 104 LOC ON ATT PLAN R.L. 19.26	31438	-	25.0	22.5	~~Adj.~~ 2.5 WET	2.04	~~Adj.~~ 1.99	**102.5**
				Material Description: GREY BROWN CLAY							
31439	14:00	150	LOT 318 LOC ON ATT PLAN R.L. 19.65	31439	-	18.5	19.0	~~Adj.~~ 0.5 DRY	2.05	~~Adj.~~ 2.07	**99.0**
				Material Description: REDDISH BROWN SILTY CLAY							
31440	14:35	150	LOT 314 LOC ON ATT PLAN R.L. 19.81	31440	-	16.0	18.0	~~Adj.~~ 2.0 DRY	2.04	~~Adj.~~ 2.05	**99.5**
				Material Description: REDDISH BROWN 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: 24/06/2024

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: 24/06/2024

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Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	50014
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 3	Date Tested	27/06/2024	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 %
31601	13:00	150	ROAD 107 LOC ON ATT PLAN R.L. 16.701	31601	-	21.0	21.5	~~Adj.~~ 0.5 DRY	2.04	~~Adj.~~ 2.01	**101.5**
				Material Description: REDDISH BROWN SILTY CLAY							
31602	13:30	150	LOT 332 LOC ON ATT PLAN R.L. 17.321	31602	-	21.5	21.0	~~Adj.~~ 0.5 WET	1.99	~~Adj.~~ 2.01	**99.0**
				Material Description: REDDISH 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: 28/06/2024

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: 28/06/2024

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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.	50092
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 3	Date Tested	18/07/2024	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 %
31767	9:20	150	ROAD 107 LOC ON ATT PLAN R.L. 18.39	31767	-	26.0	27.0	~~Adj.~~ 1.0 DRY	2.04	~~Adj.~~ 1.99	**102.5**
				Material Description: REDDISH GREY CLAY							
31768	12:50	150	ROAD 107 LOC ON ATT PLAN R.L. 19.09	31768	-	28.0	26.5	~~Adj.~~ 1.5 WET	1.98	~~Adj.~~ 2.00	**99.0**
				Material Description: REDDISH GREY 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: 24/07/2024

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: 24/07/2024

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Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	50097
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 3	Date Tested	19/07/2024	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 %
31784	8:25	150	LOT 339 LOC ON ATT PLAN R.L. 17.00	31784	-	26.5	25.0	~~Adj.~~ 1.5 WET	1.96	~~Adj.~~ 2.02	**97.0**
				Material Description: YELLOW BROWN 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: 25/07/2024

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: 25/07/2024

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

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	50103
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 3	Date Tested	22/07/2024	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 %
31806	9:45	150	ROAD 107 LOC ON ATT PLAN R.L. 19.60	31806	-	30.0	28.0	~~Adj.~~ 2.0 WET	1.99	~~Adj.~~ 2.01	**99.0**
				Material Description: BROWN SOME RED 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: 26/07/2024

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: 26/07/2024

Brisbane Soil Testing
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Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	50114
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 3	Date Tested	23/07/2024	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 %
31825	15:25	150	LOT 340 LOC ON ATT PLAN R.L. 17.31	31825	-	32.5	30.5	~~Adj.~~ 2.0 WET	1.99	~~Adj.~~ 1.94	**102.5**
				Material Description: GREY BROWN 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: 28/07/2024

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: 28/07/2024

Brisbane Soil Testing
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Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	50198
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 3	Date Tested	06/08/2024	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 %
32089	8:30	150	ROAD 104 LOC ON ATT PLAN R.L. 18.82	32089	-	12.5	13.5	Adj. 1.0 DRY	2.14	Adj. 2.18	**98.0**
				Material Description: BROWN SITY SANDY GRAVELLY CLAY							
32090	11:00	150	ROAD 347 LOC ON ATT PLAN R.L. 20.41	32090	-	16.5	15.5	~~Adj.~~ 1.0 WET	2.03	~~Adj.~~ 2.10	**96.5**
				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: 09/08/2024

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: 09/08/2024

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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.	50318
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	10/09/2024	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 %
32397	9:15	150	LOT 418 LOC ON ATT PLAN R.L. 13.30	32397	-	19.0	21.0	~~Adj.~~ 2.0 DRY	1.96	~~Adj.~~ 2.02	**97.0**
				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: 17/09/2024

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
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Date: 17/09/2024

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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.	50388
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	24/09/2024	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 %
32568	11:30	150	LOT 418 LOC ON ATT PLAN R.L. 14.61	32568	-	25.5	25.0	~~Adj.~~ 0.5 WET	1.99	~~Adj.~~ 1.99	**100.0**
				Material Description: REDDISH GREY CLAY							
32569	12:50	150	LOT 417 LOC ON ATT PLAN R.L. 15.17	32569	-	27.0	26.0	~~Adj.~~ 1.0 WET	1.99	~~Adj.~~ 1.97	**101.0**
				Material Description: REDDISH GREY 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: 30/09/2024

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: 30/09/2024

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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.	50096
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	19/07/2024	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 %
31783	7:50	150	LOT 505 LOC ON ATT PLAN R.L. 16.13	31783	-	25.5	24.5	~~Adj.~~ 1.0 WET	2.01	~~Adj.~~ 2.03	**99.0**
				Material Description: REDDISH BROWN 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: 25/07/2024

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: 25/07/2024

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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.	50113
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	23/07/2024	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 %
31824	14:10	150	LOT 506 LOC ON ATT PLAN R.L. 17.20	31824	-	18.5	17.5	~~Adj.~~ 1.0 WET	2.04	~~Adj.~~ 2.07	**98.5**
				Material Description: LIGHT 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: 28/07/2024

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: 28/07/2024

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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.	50118
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	24/07/2024	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 %
31860	8:15	150	LOT 505 LOC ON ATT PLAN R.L. 17.10	31860	-	32.0	31.0	~~Adj.~~ 1.0 WET	1.95	~~Adj.~~ 1.96	**99.5**
				Material Description: GREY BROWN CLAY							
31861	9:30	150	ROAD 101 LOC ON ATT PLAN R.L. 16.84	31861	-	29.0	28.5	~~Adj.~~ 0.5 WET	1.98	~~Adj.~~ 1.98	**100.0**
				Material Description: GREY BROWN 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: 28/07/2024

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: 28/07/2024

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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.	50202
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	07/08/2024	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 %
32115	10:30	150	LOT 543 LOC ON ATT PLAN R.L. 11.84	32115	-	28.0	27.5	~~Adj.~~ 0.5 WET	1.95	~~Adj.~~ 1.96	**99.5**
				Material Description: GREY BROWN CLAY							
32116	13:45	150	LOT 544 LOC ON ATT PLAN R.L. 12.44	32116	-	29.0	27.0	~~Adj.~~ 2.0 WET	2.02	~~Adj.~~ 1.98	**101.5**
				Material Description: GREY BROWN 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: 10/08/2024

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: 18/08/2024

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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.	50203
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	08/08/2024	Tested by	LM 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 %
32134	9:55	150	LOT 517 LOC ON ATT PLAN R.L. 16.12	32134	-	28.0	28.5	~~Adj.~~ 0.5 DRY	1.94	~~Adj.~~ 1.94	**100.0**
				Material Description: GREY BROWN CLAY							
32135	10:10	150	LOT 515 LOC ON ATT PLAN R.L. 17.13	32135	-	30.0	29.5	~~Adj.~~ 0.5 WET	1.98	~~Adj.~~ 1.96	**101.0**
				Material Description: GREY BROWN 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: 10/08/2024

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: 18/08/2024

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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.	50209
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	09/08/2024	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/m3	Peak Converted Wet Density t/m3	Hilf Density Ratio %
32138	10:00	150	LOT 523 LOC ON ATT PLAN R.L. 16.30	32138	-	22.0	20.5	~~Adj.~~ 1.5 WET	2.07	~~Adj.~~ 2.05	**101.0**
				Material Description: ORANGE BROWN & GREY SILTY CLAY							
32139	10:30	150	LOT 522 LOC ON ATT PLAN R.L. 16.25	32139	-	24.5	25.5	~~Adj.~~ 1.0 DRY	2.05	~~Adj.~~ 1.99	**103.0**
				Material Description: ORANGE BROWN & GREY CLAY							
32140	11:15	150	LOT 524 LOC ON ATT PLAN R.L. 16.32	32140	-	25.0	25.0	~~Adj.~~ -	2.06	~~Adj.~~ 1.98	**104.0**
				Material Description: GREY BROWN CLAY							
32141	11:45	150	LOT 555 LOC ON ATT PLAN R.L. 14.52	32141	-	26.5	25.5	~~Adj.~~ 1.0 WET	2.02	~~Adj.~~ 1.99	**101.5**
				Material Description: ORANGE BROWN & GREY CLAY							
32142	13:00	150	LOT 556 LOC ON ATT PLAN R.L. 14.46	32142	-	27.0	27.5	~~Adj.~~ 0.5 DRY	2.02	~~Adj.~~ 1.95	**103.5**
				Material Description: GREY BROWN 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: 11/08/2024

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: 18/08/2024

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.
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Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	50319
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	10/09/2024	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 %
32398	11:40	150	LOT 524 LOC ON ATT PLAN R.L. 15.90	32398	-	27.0	26.0	~~Adj.~~ 1.0 WET	1.95	~~Adj.~~ 1.94	**100.5**
				Material Description: GREY BROWN 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: 17/09/2024

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: 17/09/2024

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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.	50320
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	11/09/2024	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 %
32419	8:15	150	LOT 556 LOC ON ATT PLAN R.L. 13.47	32419	-	21.0	22.5	~~Adj.~~ 1.5 DRY	2.01	~~Adj.~~ 2.03	**99.0**
				Material Description: BROWN SILTY CLAY							
32420	9:45	150	LOT 541 LOC ON ATT PLAN R.L. 12.82	32420	-	20.0	19.5	~~Adj.~~ 0.5 WET	2.08	~~Adj.~~ 2.05	**101.5**
				Material Description: BROWN SILTY CLAY							
32421	12:35	150	LOT 544 LOC ON ATT PLAN R.L. 12.67	32421	-	21.5	20.0	~~Adj.~~ 1.5 WET	2.05	~~Adj.~~ 2.04	**100.5**
				Material Description: BROWN SILTY CLAY							
32422	14:10	150	LOT 547 LOC ON ATT PLAN R.L. 12.90	32422	-	22.5	21.0	~~Adj.~~ 1.5 WET	2.02	~~Adj.~~ 2.06	**98.0**
				Material Description: BROWN 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: 17/09/2024

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: 17/09/2024

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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.	50327
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	12/09/2024	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 %
32431	10:20	150	LOT 548 LOC ON ATT PLAN R.L. 13.63	32431	-	22.5	23.5	~~Adj.~~ 1.0 DRY	2.00	~~Adj.~~ 2.01	**99.5**
				Material Description: YELLOW BROWN SILTY CLAY							
32432	13:45	150	ROAD 103 LOC ON ATT PLAN R.L. 13.60	32432	-	23.0	23.5	~~Adj.~~ 0.5 DRY	2.03	~~Adj.~~ 1.99	**102.0**
				Material Description: YELLOW 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: 17/09/2024

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: 17/09/2024

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

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	50368
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	16/09/2024	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 %
32462	9:20	150	ROAD 103 LOC ON ATT PLAN R.L. 14.15	32462	-	24.5	25.0	~~Adj.~~ 0.5 DRY	2.02	~~Adj.~~ 1.96	**103.0**
				Material Description: REDDISH GREY CLAY							
32463	11:10	150	LOT 547 LOC ON ATT PLAN R.L. 14.16	32463	-	24.0	24.0	~~Adj.~~ -	2.00	~~Adj.~~ 1.98	**101.0**
				Material Description: GREY BROWN & YELLOW CLAY							
32464	12:45	150	LOT 542 LOC ON ATT PLAN R.L. 14.37	32464	-	23.0	21.5	~~Adj.~~ 1.5 WET	2.01	~~Adj.~~ 2.05	**98.0**
				Material Description: LIGHT BROWN SILTY CLAY							
32465	13:30	150	ROAD 102 LOC ON ATT PLAN R.L. 16.70	32465	-	22.0	22.5	~~Adj.~~ 0.5 DRY	2.04	~~Adj.~~ 2.03	**100.5**
				Material Description: BROWN SILTY CLAY							
32466	14:45	150	LOT 555 LOC ON ATT PLAN R.L. 16.61	32466	-	24.5	23.5	~~Adj.~~ 1.0 WET	1.96	~~Adj.~~ 1.99	**98.5**
				Material Description: LIGHT GREY BROWN 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: 20/09/2024

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: 20/09/2024

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

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	50370
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	19/09/2024	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 %
32514	7:15	150	LOT 547 LOC ON ATT PLAN R.L. 15.50	32514	-	26.0	25.5	~~Adj.~~ 0.5 WET	2.03	~~Adj.~~ 1.96	**103.5**
				Material Description: GREY BROWN CLAY							
32515	7:50	150	LOT 546 LOC ON ATT PLAN R.L. 15.46	32515	-	21.0	20.0	~~Adj.~~ 1.0 WET	2.05	~~Adj.~~ 2.06	**99.5**
				Material Description: BROWN SILTY CLAY							
32516	10:30	150	LOT 544 LOC ON ATT PLAN R.L. 15.12	32516	-	23.5	22.5	~~Adj.~~ 1.0 WET	2.04	~~Adj.~~ 2.00	**102.0**
				Material Description: YELLOW BROWN SILTY CLAY							
32517	11:05	150	LOT 542 LOC ON ATT PLAN R.L. 15.28	32517	-	23.0	22.0	~~Adj.~~ 1.0 WET	2.02	~~Adj.~~ 2.05	**98.5**
				Material Description: YELLOW BROWN SILTY CLAY							
32518	12:40	150	LOT 543 LOC ON ATT PLAN R.L. 15.21	32518	-	25.5	25.5	~~Adj.~~ -	1.98	~~Adj.~~ 1.94	**102.0**
				Material Description: REDDISH GREY 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: 23/09/2024

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: 23/09/2024

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

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	50382
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	23/09/2024	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 %
32548	10:00	150	LOT 548 LOC ON ATT PLAN R.L. 16.12	32548	-	18.0	17.0	~~Adj.~~ 1.0 WET	2.07	~~Adj.~~ 2.09	**99.0**
				Material Description: ORANGE BROWN SILTY CLAY							
32549	10:30	150	ROAD 103 LOC ON ATT PLAN R.L. 16.03	32549	-	20.0	20.5	~~Adj.~~ 0.5 DRY	2.07	~~Adj.~~ 2.04	**101.5**
				Material Description: 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: 27/09/2024

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: 27/09/2024

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

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	50387
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	24/09/2024	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 %
32570	9:45	150	LOT 516 LOC ON ATT PLAN R.L. 16.24	32570	-	23.0	23.0	~~Adj.~~ -	2.05	~~Adj.~~ 2.03	**101.0**
				Material Description: YELLOW BROWN SILTY CLAY							
32571	10:30	150	LOT 518 LOC ON ATT PLAN R.L. 16.73	32571	-	26.5	27.0	~~Adj.~~ 0.5 DRY	1.98	~~Adj.~~ 1.99	**99.5**
				Material Description: REDDISH 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: 30/09/2024

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: 30/09/2024

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

5th of November 2024

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

Attn Alex Wood

RE: AIRE – STAGES 3-5 *(INTERIM REPORT)*
(Bulk Earthworks Fill – Geotechnical Inspection & Testing)
(This report is interim in that it does not include bulk earthworks filling still to be completed and final RPEQ certification).

SCOPE

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

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 RPEQ Certification

CONTROL INSPECTION AND TESTING

An inspection of the areas to be filled was carried out on 22nd 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 and 825 compactor.

Sixty-Four field density tests were carried out between 28th of May 2024 and 24th of September 2024. These tests recorded Dry Density Ratios between 97.0% and 104.0% relative to the standard compaction test and field moisture contents within –3.0% and +2.5% of their respective optimum moisture contents, AS1289.5.1.1.

Attached documents B194/4 (Stage 3 Report Nos. 49938, 49944, 49945, 49965, 50014, 50092, 50097, 50103, 50114 & 50198), (Stage 4 Report Nos. 50318 & 50388) and (Stage 5 Report Nos. 50096, 50113, 50118, 50202, 50203, 50209, 50319, 50320, 50327, 50368, 50370, 50382 & 50387) provide full test data for the compaction control tests.

CONCLUSION

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

We confirm that all vegetation and topsoil was removed, and that a sound base for the proposed filling was provided.

We further confirm that all filling to the levels and lateral extents shown on the attached Sunrise Surveying survey plan, Rev A dated 01/11/2024 titled "Controlled Fill Extents" can be termed controlled filling in accordance with Section 6.4.2 of AS2870-2011, via "Level 1" inspection and testing commission.

GREG McGRANN
BRISBANE SOIL TESTING
MANAGING DIRECTOR

Attachments:

Level 1 Test Locations

Sunrise Surveying "Controlled Fill Extents"

Field Density Test Reports

BULK EARTHWORKS TEST LOCATIONS

LEGEND

- PROPOSED AREA OF WORKS
- STAGE BOUNDARY
- 24.0 PROPOSED SURFACE CONTOUR
- 24.0 EXISTING SURFACE CONTOUR
- 24.60 PROPOSED FINISHED SURFACE LEVEL (FSL) (AFTER TOPSOIL PLACEMENT)
- 24.60 EXISTING SURFACE LEVEL (ESL)
- PROPOSED AREA OF CUT (197m^3)
- PROPOSED AREA OF FILL (9568m^3)
- EXISTING WATER BODY OUTLINE
- WT FUTURE TRUNK WATERMAIN
- EO EXISTING OVERHEAD ELECTRICITY
- X-POLE

N

MAPPED WATERWAY EARTHWORKS				
EARTHWORKS ZONE	TO EXISTING (NO EXISTING WATER			
	CUT (m³)	FILL (m³)	BALANCE (m^3)	
MAPPED WATERWAY (WB3 + WB4)	197	9370	-9173	
TOTAL	**197**	**9370**	**-9173**	IMPORT

BULK EARTHWORKS VOLUME PARAMETERS

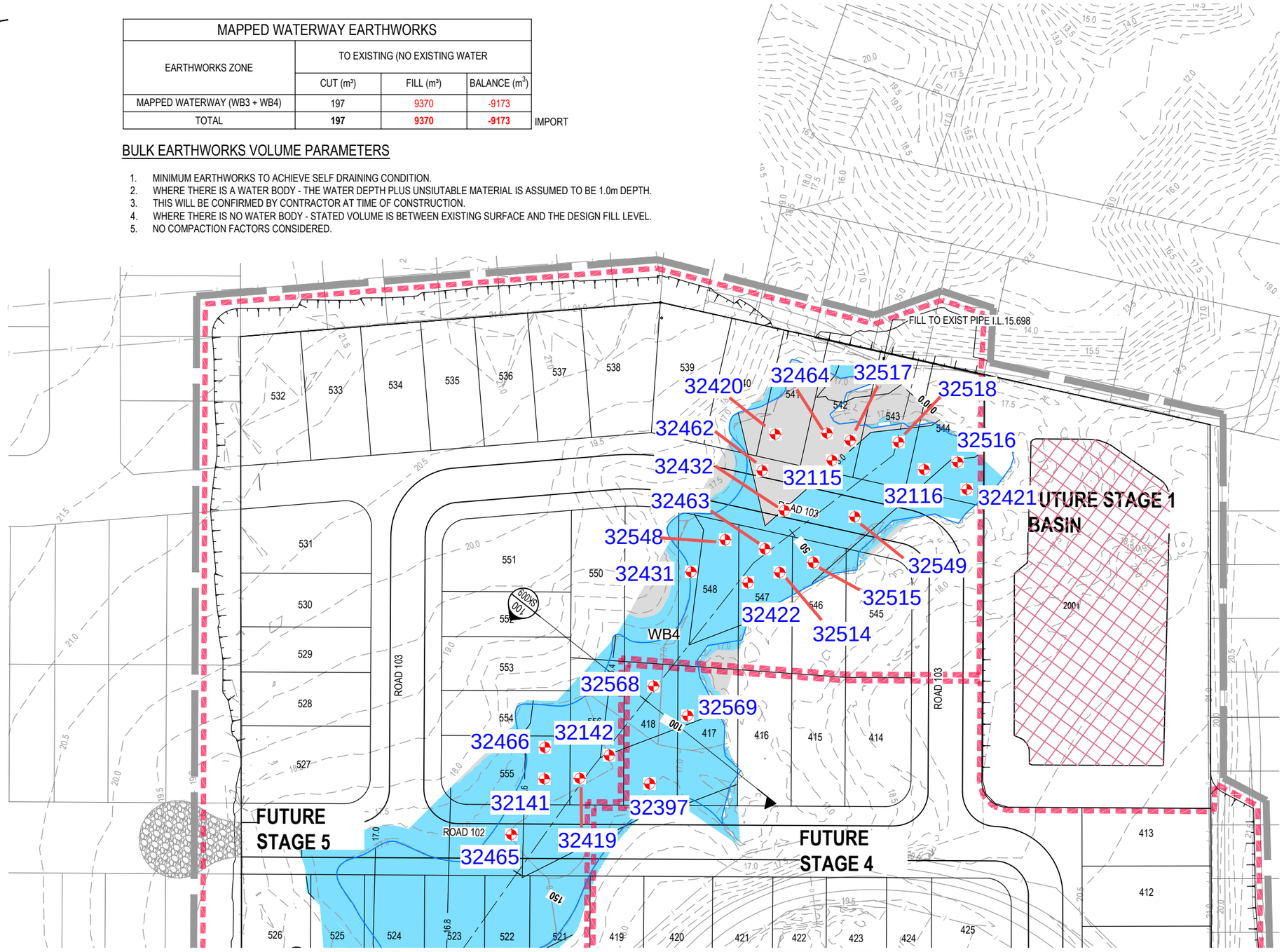
1. MINIMUM EARTHWORKS TO ACHIEVE SELF DRAINING CONDITION.
2. WHERE THERE IS A WATER BODY - THE WATER DEPTH PLUS UNSIUTABLE MATERIAL IS ASSUMED TO BE 1.0m DEPTH.
3. THIS WILL BE CONFIRMED BY CONTRACTOR AT TIME OF CONSTRUCTION.
4. WHERE THERE IS NO WATER BODY - STATED VOLUME IS BETWEEN EXISTING SURFACE AND THE DESIGN FILL LEVEL.
5. NO COMPACTION FACTORS CONSIDERED.

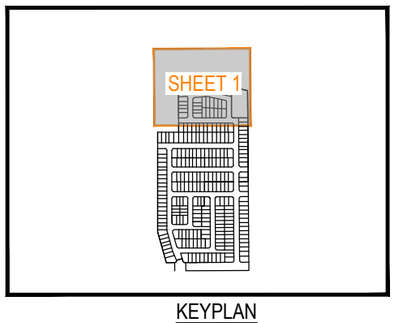
WARNING! - EXISTING SERVICES

EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

- 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.





KEYPLAN
SCALE: 1:10000 (A1)
SCALE: 1:20000 (A3)

Received
BMD Urban Pty Ltd
07/05/2024

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	05.03.24	DC	RD	ORIGINAL ISSUE

DRAWN
DESIGN

STATUS: **NOT FOR CONSTRUCTION**
APPROVED: TAIT McCARTHY RPEQ 28026
FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD

Colliers

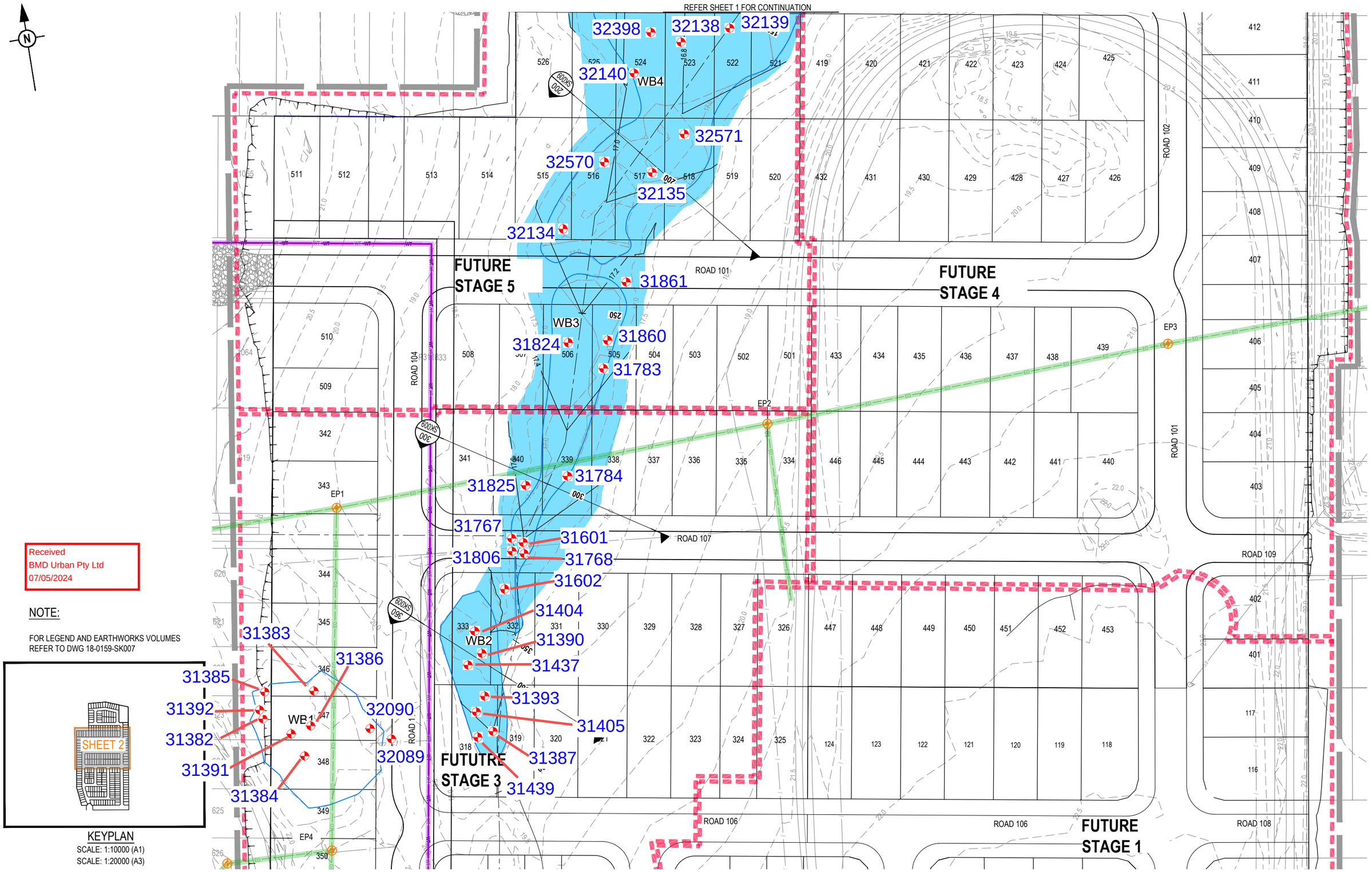
SCALE: 1:500 10 5 0 10 20 A1; 1:1000 A3

CLIENT: **ORCHARD (CRAIG ROAD) DEVELOPMENTS PTY LTD**
ASSOCIATED CONSULTANT: LAND PARTNERS (07) 3842 1000

PROJECT NAME: **AIRE - BULK EARTHWORKS STAGES 3-5**

DRAWING TITLE: **WATERWAY BULK EARTHWORKS LAYOUT PLAN SHEET 1 OF 2**

PROJECT No.	DRAWING No.	REVISION
18-0159	SK007	1



Received
BMD Urban Pty Ltd
07/05/2024

NOTE:

FOR LEGEND AND EARTHWORKS VOLUMES
REFER TO DWG 18-0159-SK007

KEYPLAN
SCALE: 1:10000 (A1)
SCALE: 1:20000 (A3)

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	05.03.24	DC	RD	ORIGINAL ISSUE

DRAWN
DESIGN

STATUS: NOT FOR CONSTRUCTION

APPROVED: TAIT McCARTHY RPEQ 28026

FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD

Colliers

SCALE
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1:1000 A3

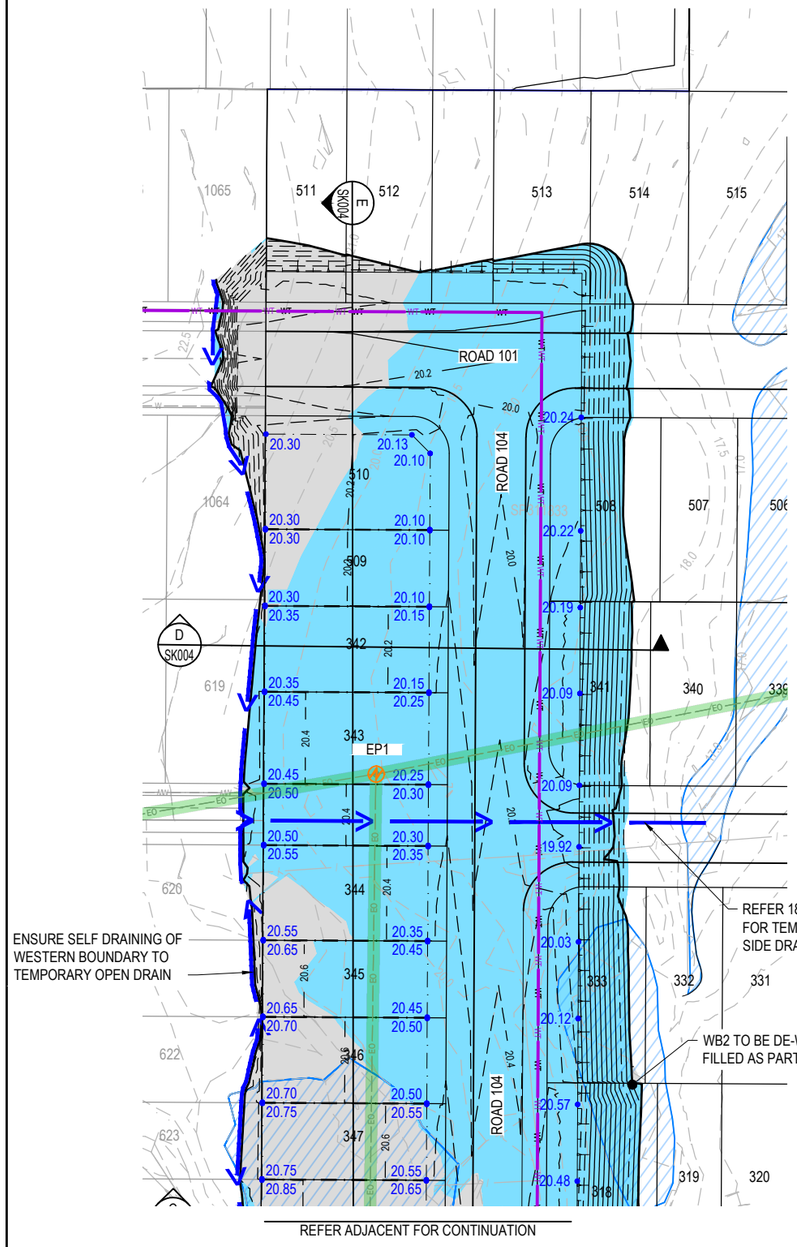
CLIENT: ORCHARD (CRAIG ROAD) DEVELOPMENTS PTY LTD

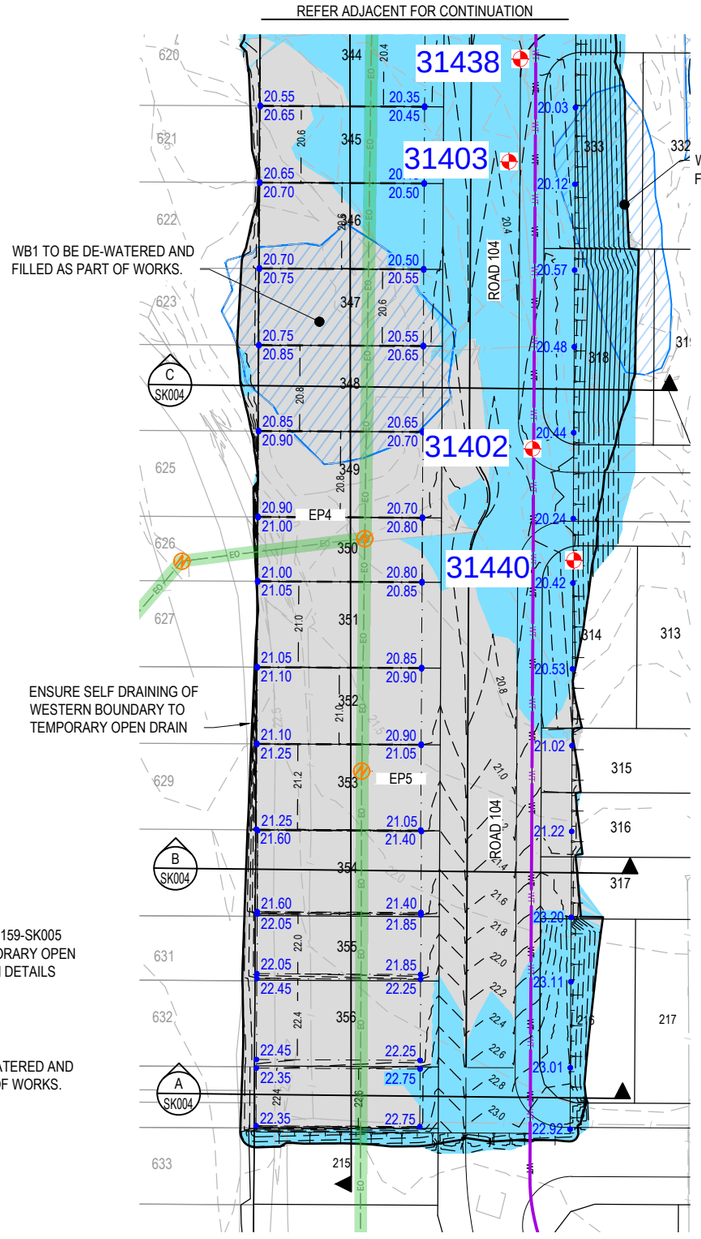
ASSOCIATED CONSULTANT: LAND PARTNERS (07) 3842 1000

PROJECT NAME: AIRE - BULK EARTHWORKS STAGES 3-5

DRAWING TITLE: WATERWAY BULK EARTHWORKS LAYOUT PLAN SHEET 2 OF 2

PROJECT No.	DRAWING No.	REVISION
18-0159	SK008	1





LEGEND

- PROPOSED AREA OF WORKS
- STAGE BOUNDARY
- 24.0 PROPOSED SURFACE CONTOUR
- 24.0 EXISTING SURFACE CONTOUR
- PROPOSED EARTHWORKS PAD
- 24.60 PROPOSED FINISHED SURFACE LEVEL (FSL) (AFTER TOPSOIL PLACEMENT)
- 24.60 EXISTING SURFACE LEVEL (ESL)
- PROPOSED AREA OF CUT
- PROPOSED AREA OF FILL
- FUTURE NDP1 TRUNK WATER
- EXISTING OVERHEAD ELECTRICITY
- EXISTING FENCELINE
- EXISTING ROAD TRACK
- EXISTING MAPPED WATERWAY

WARNING! - EXISTING SERVICES

EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

- 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.

DEWATERING & FILLING OF EXISTING WATER BODIES WB1 & WB2

EXISTING DAMS TO BE DEWATERED AND GEOTECHNICAL CERTIFICATION PROVIDED TO CONFIRM FILL IN ACCORDANCE WITH AS3798

NOTE:

ALL SURFACES TO BE GRASS SEEDED

Received
BMD Urban Pty Ltd
07/05/2024

AIRE - INTERIM BULK EARTHWORKS

EARTHWORKS ZONE	TO EXISTING (NO EXISTING WATER		TO UNSUITABLE BOTTOM (EXISTING WATER BODY)			
	CUT (m³)	FILL (m³)	AREA (m²)	DEPTH (m²)	FILL VOLUME (m²)	BALANCE
EMBANKMENT & OPEN SIDE DRAIN	7094	3404				3690
WATER BODY 1			1027	1	1027	2663
WATER BODY 2			576	1	576	2087
TOTAL	7094	3404	1603	2		2087

BULK EARTHWORKS VOLUME PARAMETERS

1. MINIMUM EARTHWORKS TO ACHIEVE SELF DRAINING CONDITION
2. WHERE THERE IS A WATER BODY - THE WATER DEPTH PLUS UNSIUTABLE MATERIAL IS ASSUMED TO BE 1.0m DEPTH. THIS WILL BE CONFIRMED BY CONTRACTOR AT TIME OF CONSTRUCTION.
3. WHERE THERE IS NO WATER BODY - STATED VOLUME IS BETWEEN EXISTING SURFACE AND THE DESIGN FILL LEVEL.
4. NO COMPACTION FACTORS CONSIDERED

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	05.03.24	DC	AF	ORIGINAL ISSUE

DRAWN

DESIGN

STATUS: **NOT FOR CONSTRUCTION**

APPROVED: TAIT McCARTHY RPEQ 28026

FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD

Colliers

SCALE: 1:500 / 1:1000 — 10 5 0 10 20 — A1 / A3

CLIENT: **ORCHARD (CRAIG ROAD) DEVELOPMENTS PTY LTD**

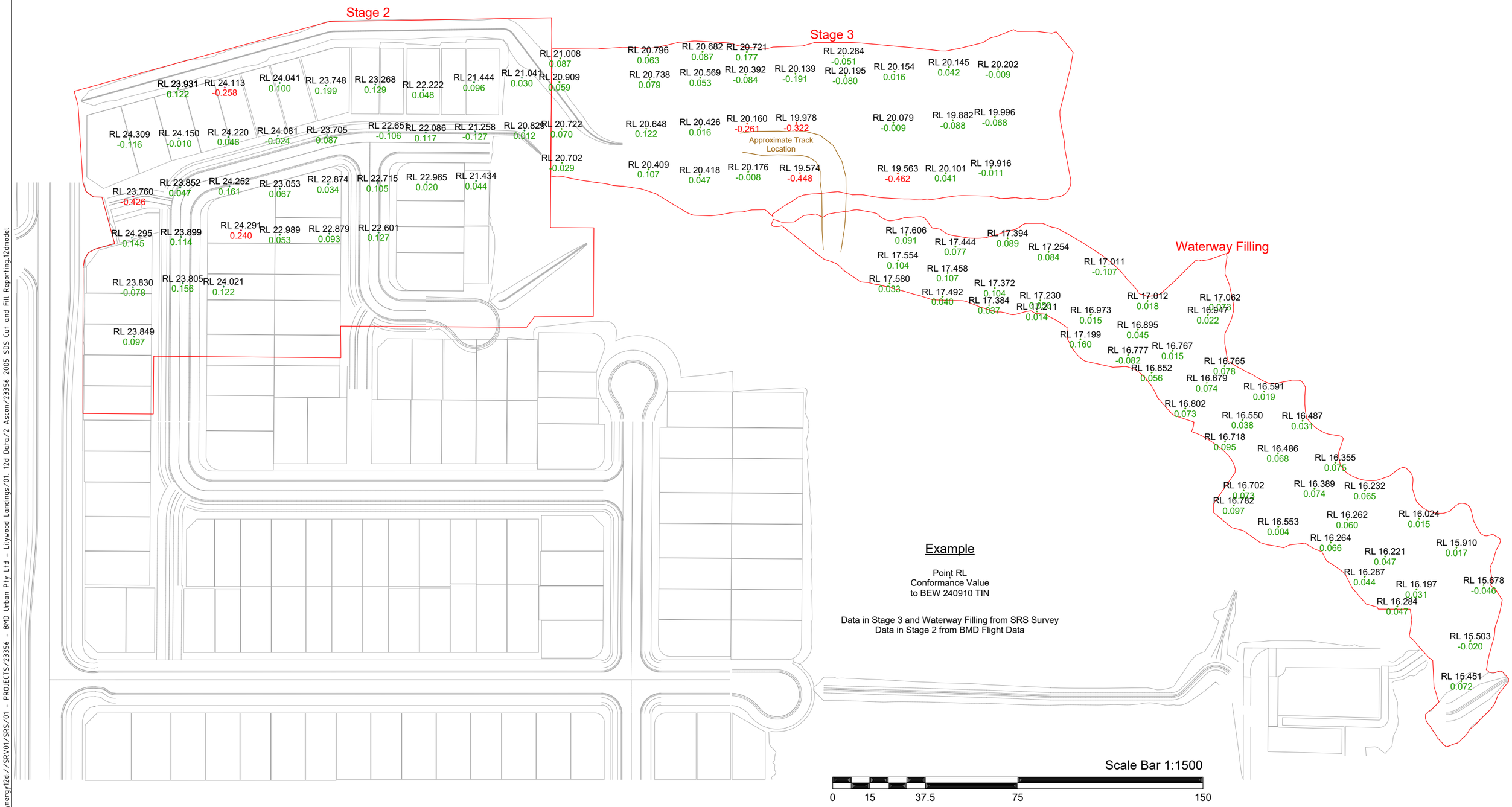
ASSOCIATED CONSULTANT: LAND PARTNERS (07) 3842 1000

PROJECT NAME: **AIRE - BULK EARTHWORKS STAGES 3-5**

DRAWING TITLE: **LAYOUT PLAN**

PROJECT No.	DRAWING No.	REVISION
18-0159	SK003	1

CONTROLLED FILL EXTENTS



REV.	DATE	DESCRIPTION	DRAWN	SURV	CHKD
A	02/11/24	Issued for Information	SDS	SDS	SDS

SUNRISE SURVEYING

Brisbane (Head Office)
Ground Floor, 18 Finchley St, Milton
admin@sunrisesurveying.com.au
Toowoomba
Tenancy 1, 4 Laurel St, Toowoomba
toowoomba@sunrisesurveying.com.au
Rockhampton
Level 1, 159 Denison St, Rockhampton
rockhampton@sunrisesurveying.com.au
Yeppoon
47 Normanby St, Yeppoon
yeppoon@sunrisesurveying.com.au

CLIENT. BMD

PROJECT. Lilywood Landings

HORIZONTAL DATUM. VERTICAL DATUM. AHD PSM 72109 RL: 30.422

DRAWING DESCRIPTION. Level 1 Report Stage 2,3 & Waterway Filling

Sheet 1 of 1

DRAWING NAME: 23356 2005 002-A

SCALE. 1: 1500 @ A3

SITE ADDRESS. Caboolture, QLD

LOCAL AUTHORITY MBRC

SURVEY DATE 01/11/24

CONTOUR INTERVAL Minor: - Major: -

REV A

Project Location: Synergy12d://SRV01/SRS/01 - PROJECTS/23356 - BMD Urban Pty Ltd - Lilywood Landings/01. 12d Data/2 Ascon/23356 2005 SDS Cut and Fill Reporting.12dmodel

Drawing Plotted Sunday, November 03, 2024 12:44:48 by SamuelSimpson

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur Q 4503
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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.	49938
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 3	Date Tested	13/06/2024	Tested by	GMG

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 %
31382	7:10	150	LOT 623 BAYCROWN LOC ON ATT PLAN R.L. 18.70	31382	-	25.5	24.5	~~Adj.~~ 1.0 WET	1.96	~~Adj.~~ 1.99	**98.5**
				Material Description: GREY BROWN SILTY CLAY							
31383	7:45	150	LOT 346 LOC ON ATT PLAN R.L. 18.61	31383	-	25.0	25.0	~~Adj.~~ -	1.91	~~Adj.~~ 1.97	**97.0**
				Material Description: REDDISH BROWN & GREY SILTY CLAY							
31384	13:10	150	LOT 348 LOC ON ATT PLAN R.L. 19.14	31384	-	26.5	26.0	~~Adj.~~ 0.5 WET	1.95	~~Adj.~~ 1.96	**99.5**
				Material Description: REDDISH BROWN & GREY SILTY CLAY							
31385	13:45	150	LOT 622 BAYCROWN LOC ON ATT PLAN R.L. 19.29	31385	-	29.0	27.5	~~Adj.~~ 1.5 WET	1.99	~~Adj.~~ 1.97	**101.0**
				Material Description: REDDISH BROWN & GREY SILTY CLAY							
31386	14:50	150	LOT 347 LOC ON ATT PLAN R.L. 19.58	31386	-	18.0	17.0	~~Adj.~~ 1.0 WET	2.04	~~Adj.~~ 2.08	**98.0**
				Material Description: REDDISH BROWN SILTY CLAY & ROCK FRAGMENTS							
31387	15:25	150	LOT 318 LOC ON ATT PLAN R.L. 17.24	31387	-	28.5	27.0	~~Adj.~~ 1.5 WET	1.89	~~Adj.~~ 1.95	**97.0**
				Material Description: GREY 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: 18/06/2024

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: 18/06/2024

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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.	49944
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 3	Date Tested	14/06/2024	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 %
31390	8:10	150	LOT 333 LOC ON ATT PLAN R.L. 17.72	31390	-	31.0	29.5	~~Adj.~~ 1.5 WET	1.92	~~Adj.~~ 1.95	**98.5**
				Material Description: GREY MOTTLED YELLOW CLAY							
31391	8:45	150	LOT 347 LOC ON ATT PLAN R.L. 20.23	31391	-	17.0	15.5	~~Adj.~~ 1.5 WET	2.02	~~Adj.~~ 2.06	**98.0**
				Material Description: LIGHT BROWN SILTY SANDY CLAY & ROCK FRAGMENTS							
31392	12:30	150	LOT 623 BAYCROWN LOC ON ATT PLAN R.L. 20.31	31392	-	17.0	16.5	~~Adj.~~ 0.5 WET	2.03	~~Adj.~~ 2.01	**101.0**
				Material Description: BROWN SILTY SANDY CLAY							
31393	13:15	150	LOT 318 LOC ON ATT PLAN R.L. 18.40	31393	-	28.5	27.5	~~Adj.~~ 1.0 WET	1.90	~~Adj.~~ 1.95	**97.5**
				Material Description: DARK BROWN 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: 24/06/2024

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: 24/06/2024

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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.	49945
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 3	Date Tested	17/06/2024	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/m3	Peak Converted Wet Density t/m3	Hilf Density Ratio %
31402	13:30	150	ROAD 104 LOC ON ATT PLAN R.L. 20.41	31402	-	22.0	21.0	~~Adj.~~ 1.0 WET	2.02	~~Adj.~~ 2.00	**101.0**
				Material Description: REDDISH BROWN & GREY CLAY							
31403	14:00	150	ROAD 104 LOC ON ATT PLAN R.L. 19.68	31403	-	26.5	25.5	~~Adj.~~ 1.0 WET	1.97	~~Adj.~~ 1.99	**99.0**
				Material Description: GREY BROWN CLAY							
31404	14:30	150	LOT 333 LOC ON ATT PLAN R.L. 18.37	31404	-	23.0	22.5	~~Adj.~~ 0.5 WET	1.98	~~Adj.~~ 2.02	**98.0**
				Material Description: REDDISH BROWN & GREY CLAY							
31405	15:00	150	LOT 318 LOC ON ATT PLAN R.L. 19.10	31405	-	25.0	24.5	~~Adj.~~ 0.5 WET	2.00	~~Adj.~~ 1.98	**101.0**
				Material Description: REDDISH GREY 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: 24/06/2024

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

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Greg McGrann/Manager
Approved Signatory
Date: 24/06/2024

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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.	49965
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 3	Date Tested	18/06/2024	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 %
31437	10:15	150	LOT 333 LOC ON ATT PLAN R.L. 19.04	31437	-	16.0	19.0	~~Adj.~~ 3.0 DRY	1.98	~~Adj.~~ 2.03	**97.5**
				Material Description: REDDISH BROWN SILTY SANDY CLAY							
31438	10:40	150	ROAD 104 LOC ON ATT PLAN R.L. 19.26	31438	-	25.0	22.5	~~Adj.~~ 2.5 WET	2.04	~~Adj.~~ 1.99	**102.5**
				Material Description: GREY BROWN CLAY							
31439	14:00	150	LOT 318 LOC ON ATT PLAN R.L. 19.65	31439	-	18.5	19.0	~~Adj.~~ 0.5 DRY	2.05	~~Adj.~~ 2.07	**99.0**
				Material Description: REDDISH BROWN SILTY CLAY							
31440	14:35	150	LOT 314 LOC ON ATT PLAN R.L. 19.81	31440	-	16.0	18.0	~~Adj.~~ 2.0 DRY	2.04	~~Adj.~~ 2.05	**99.5**
				Material Description: REDDISH BROWN 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: 24/06/2024

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: 24/06/2024

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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.	50014
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 3	Date Tested	27/06/2024	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 %
31601	13:00	150	ROAD 107 LOC ON ATT PLAN R.L. 16.701	31601	-	21.0	21.5	~~Adj.~~ 0.5 DRY	2.04	~~Adj.~~ 2.01	**101.5**
				Material Description: REDDISH BROWN SILTY CLAY							
31602	13:30	150	LOT 332 LOC ON ATT PLAN R.L. 17.321	31602	-	21.5	21.0	~~Adj.~~ 0.5 WET	1.99	~~Adj.~~ 2.01	**99.0**
				Material Description: REDDISH 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: 28/06/2024

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: 28/06/2024

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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.	50092
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 3	Date Tested	18/07/2024	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 %
31767	9:20	150	ROAD 107 LOC ON ATT PLAN R.L. 18.39	31767	-	26.0	27.0	~~Adj.~~ 1.0 DRY	2.04	~~Adj.~~ 1.99	**102.5**
				Material Description: REDDISH GREY CLAY							
31768	12:50	150	ROAD 107 LOC ON ATT PLAN R.L. 19.09	31768	-	28.0	26.5	~~Adj.~~ 1.5 WET	1.98	~~Adj.~~ 2.00	**99.0**
				Material Description: REDDISH GREY 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: 24/07/2024

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: 24/07/2024

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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.	50097
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 3	Date Tested	19/07/2024	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 %
31784	8:25	150	LOT 339 LOC ON ATT PLAN R.L. 17.00	31784	-	26.5	25.0	~~Adj.~~ 1.5 WET	1.96	~~Adj.~~ 2.02	**97.0**
				Material Description: YELLOW BROWN 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: 25/07/2024

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: 25/07/2024

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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.	50103
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 3	Date Tested	22/07/2024	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 %
31806	9:45	150	ROAD 107 LOC ON ATT PLAN R.L. 19.60	31806	-	30.0	28.0	~~Adj.~~ 2.0 WET	1.99	~~Adj.~~ 2.01	**99.0**
				Material Description: BROWN SOME RED 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: 26/07/2024

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: 26/07/2024

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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.	50114
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 3	Date Tested	23/07/2024	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 %
31825	15:25	150	LOT 340 LOC ON ATT PLAN R.L. 17.31	31825	-	32.5	30.5	~~Adj.~~ 2.0 WET	1.99	~~Adj.~~ 1.94	**102.5**
				Material Description: GREY BROWN 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: 28/07/2024

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: 28/07/2024

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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.	50198
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 3	Date Tested	06/08/2024	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 %
32089	8:30	150	ROAD 104 LOC ON ATT PLAN R.L. 18.82	32089	-	12.5	13.5	Adj. 1.0 DRY	2.14	Adj. 2.18	**98.0**
				Material Description: BROWN SITY SANDY GRAVELLY CLAY							
32090	11:00	150	ROAD 347 LOC ON ATT PLAN R.L. 20.41	32090	-	16.5	15.5	~~Adj.~~ 1.0 WET	2.03	~~Adj.~~ 2.10	**96.5**
				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: 09/08/2024

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: 09/08/2024

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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.	50318
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	10/09/2024	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 %
32397	9:15	150	LOT 418 LOC ON ATT PLAN R.L. 13.30	32397	-	19.0	21.0	~~Adj.~~ 2.0 DRY	1.96	~~Adj.~~ 2.02	**97.0**
				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: 17/09/2024

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: 17/09/2024

Brisbane Soil Testing
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Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	50388
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	24/09/2024	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 %
32568	11:30	150	LOT 418 LOC ON ATT PLAN R.L. 14.61	32568	-	25.5	25.0	~~Adj.~~ 0.5 WET	1.99	~~Adj.~~ 1.99	**100.0**
				Material Description: REDDISH GREY CLAY							
32569	12:50	150	LOT 417 LOC ON ATT PLAN R.L. 15.17	32569	-	27.0	26.0	~~Adj.~~ 1.0 WET	1.99	~~Adj.~~ 1.97	**101.0**
				Material Description: REDDISH GREY 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: 30/09/2024

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: 30/09/2024

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.	50096
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	19/07/2024	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 %
31783	7:50	150	LOT 505 LOC ON ATT PLAN R.L. 16.13	31783	-	25.5	24.5	~~Adj.~~ 1.0 WET	2.01	~~Adj.~~ 2.03	**99.0**
				Material Description: REDDISH BROWN 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: 25/07/2024

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: 25/07/2024

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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.	50113
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	23/07/2024	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 %
31824	14:10	150	LOT 506 LOC ON ATT PLAN R.L. 17.20	31824	-	18.5	17.5	~~Adj.~~ 1.0 WET	2.04	~~Adj.~~ 2.07	**98.5**
				Material Description: LIGHT 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: 28/07/2024

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: 28/07/2024

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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.	50118
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	24/07/2024	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 %
31860	8:15	150	LOT 505 LOC ON ATT PLAN R.L. 17.10	31860	-	32.0	31.0	~~Adj.~~ 1.0 WET	1.95	~~Adj.~~ 1.96	**99.5**
				Material Description: GREY BROWN CLAY							
31861	9:30	150	ROAD 101 LOC ON ATT PLAN R.L. 16.84	31861	-	29.0	28.5	~~Adj.~~ 0.5 WET	1.98	~~Adj.~~ 1.98	**100.0**
				Material Description: GREY BROWN 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: 28/07/2024

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: 28/07/2024

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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.	50202
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	07/08/2024	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 %
32115	10:30	150	LOT 543 LOC ON ATT PLAN R.L. 11.84	32115	-	28.0	27.5	~~Adj.~~ 0.5 WET	1.95	~~Adj.~~ 1.96	**99.5**
				Material Description: GREY BROWN CLAY							
32116	13:45	150	LOT 544 LOC ON ATT PLAN R.L. 12.44	32116	-	29.0	27.0	~~Adj.~~ 2.0 WET	2.02	~~Adj.~~ 1.98	**101.5**
				Material Description: GREY BROWN 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: 10/08/2024

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
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Greg McGrann/Manager
Approved Signatory
Date: 18/08/2024

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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.	50203
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	08/08/2024	Tested by	LM 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 %
32134	9:55	150	LOT 517 LOC ON ATT PLAN R.L. 16.12	32134	-	28.0	28.5	~~Adj.~~ 0.5 DRY	1.94	~~Adj.~~ 1.94	**100.0**
				Material Description: GREY BROWN CLAY							
32135	10:10	150	LOT 515 LOC ON ATT PLAN R.L. 17.13	32135	-	30.0	29.5	~~Adj.~~ 0.5 WET	1.98	~~Adj.~~ 1.96	**101.0**
				Material Description: GREY BROWN 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: 10/08/2024

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: 18/08/2024

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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.	50209
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	09/08/2024	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 %
32138	10:00	150	LOT 523 LOC ON ATT PLAN R.L. 16.30	32138	-	22.0	20.5	~~Adj.~~ 1.5 WET	2.07	~~Adj.~~ 2.05	**101.0**
				Material Description: ORANGE BROWN & GREY SILTY CLAY							
32139	10:30	150	LOT 522 LOC ON ATT PLAN R.L. 16.25	32139	-	24.5	25.5	~~Adj.~~ 1.0 DRY	2.05	~~Adj.~~ 1.99	**103.0**
				Material Description: ORANGE BROWN & GREY CLAY							
32140	11:15	150	LOT 524 LOC ON ATT PLAN R.L. 16.32	32140	-	25.0	25.0	~~Adj.~~ -	2.06	~~Adj.~~ 1.98	**104.0**
				Material Description: GREY BROWN CLAY							
32141	11:45	150	LOT 555 LOC ON ATT PLAN R.L. 14.52	32141	-	26.5	25.5	~~Adj.~~ 1.0 WET	2.02	~~Adj.~~ 1.99	**101.5**
				Material Description: ORANGE BROWN & GREY CLAY							
32142	13:00	150	LOT 556 LOC ON ATT PLAN R.L. 14.46	32142	-	27.0	27.5	~~Adj.~~ 0.5 DRY	2.02	~~Adj.~~ 1.95	**103.5**
				Material Description: GREY BROWN 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: 11/08/2024

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: 18/08/2024

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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.	50319
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	10/09/2024	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 %
32398	11:40	150	LOT 524 LOC ON ATT PLAN R.L. 15.90	32398	-	27.0	26.0	~~Adj.~~ 1.0 WET	1.95	~~Adj.~~ 1.94	**100.5**
				Material Description: GREY BROWN 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: 17/09/2024

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: 17/09/2024

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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.	50320
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	11/09/2024	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 %
32419	8:15	150	LOT 556 LOC ON ATT PLAN R.L. 13.47	32419	-	21.0	22.5	~~Adj.~~ 1.5 DRY	2.01	~~Adj.~~ 2.03	**99.0**
				Material Description: BROWN SILTY CLAY							
32420	9:45	150	LOT 541 LOC ON ATT PLAN R.L. 12.82	32420	-	20.0	19.5	~~Adj.~~ 0.5 WET	2.08	~~Adj.~~ 2.05	**101.5**
				Material Description: BROWN SILTY CLAY							
32421	12:35	150	LOT 544 LOC ON ATT PLAN R.L. 12.67	32421	-	21.5	20.0	~~Adj.~~ 1.5 WET	2.05	~~Adj.~~ 2.04	**100.5**
				Material Description: BROWN SILTY CLAY							
32422	14:10	150	LOT 547 LOC ON ATT PLAN R.L. 12.90	32422	-	22.5	21.0	~~Adj.~~ 1.5 WET	2.02	~~Adj.~~ 2.06	**98.0**
				Material Description: BROWN 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: 17/09/2024

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: 17/09/2024

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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.	50327
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	12/09/2024	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 %
32431	10:20	150	LOT 548 LOC ON ATT PLAN R.L. 13.63	32431	-	22.5	23.5	~~Adj.~~ 1.0 DRY	2.00	~~Adj.~~ 2.01	**99.5**
				Material Description: YELLOW BROWN SILTY CLAY							
32432	13:45	150	ROAD 103 LOC ON ATT PLAN R.L. 13.60	32432	-	23.0	23.5	~~Adj.~~ 0.5 DRY	2.03	~~Adj.~~ 1.99	**102.0**
				Material Description: YELLOW 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: 17/09/2024

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: 17/09/2024

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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.	50368
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	16/09/2024	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 %
32462	9:20	150	ROAD 103 LOC ON ATT PLAN R.L. 14.15	32462	-	24.5	25.0	~~Adj.~~ 0.5 DRY	2.02	~~Adj.~~ 1.96	**103.0**
				Material Description: REDDISH GREY CLAY							
32463	11:10	150	LOT 547 LOC ON ATT PLAN R.L. 14.16	32463	-	24.0	24.0	~~Adj.~~ -	2.00	~~Adj.~~ 1.98	**101.0**
				Material Description: GREY BROWN & YELLOW CLAY							
32464	12:45	150	LOT 542 LOC ON ATT PLAN R.L. 14.37	32464	-	23.0	21.5	~~Adj.~~ 1.5 WET	2.01	~~Adj.~~ 2.05	**98.0**
				Material Description: LIGHT BROWN SILTY CLAY							
32465	13:30	150	ROAD 102 LOC ON ATT PLAN R.L. 16.70	32465	-	22.0	22.5	~~Adj.~~ 0.5 DRY	2.04	~~Adj.~~ 2.03	**100.5**
				Material Description: BROWN SILTY CLAY							
32466	14:45	150	LOT 555 LOC ON ATT PLAN R.L. 16.61	32466	-	24.5	23.5	~~Adj.~~ 1.0 WET	1.96	~~Adj.~~ 1.99	**98.5**
				Material Description: LIGHT GREY BROWN 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: 20/09/2024

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: 20/09/2024

Brisbane Soil Testing
20/1191 Anzac Ave
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Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	50370
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	19/09/2024	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 %
32514	7:15	150	LOT 547 LOC ON ATT PLAN R.L. 15.50	32514	-	26.0	25.5	~~Adj.~~ 0.5 WET	2.03	~~Adj.~~ 1.96	**103.5**
				Material Description: GREY BROWN CLAY							
32515	7:50	150	LOT 546 LOC ON ATT PLAN R.L. 15.46	32515	-	21.0	20.0	~~Adj.~~ 1.0 WET	2.05	~~Adj.~~ 2.06	**99.5**
				Material Description: BROWN SILTY CLAY							
32516	10:30	150	LOT 544 LOC ON ATT PLAN R.L. 15.12	32516	-	23.5	22.5	~~Adj.~~ 1.0 WET	2.04	~~Adj.~~ 2.00	**102.0**
				Material Description: YELLOW BROWN SILTY CLAY							
32517	11:05	150	LOT 542 LOC ON ATT PLAN R.L. 15.28	32517	-	23.0	22.0	~~Adj.~~ 1.0 WET	2.02	~~Adj.~~ 2.05	**98.5**
				Material Description: YELLOW BROWN SILTY CLAY							
32518	12:40	150	LOT 543 LOC ON ATT PLAN R.L. 15.21	32518	-	25.5	25.5	~~Adj.~~ -	1.98	~~Adj.~~ 1.94	**102.0**
				Material Description: REDDISH GREY 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: 23/09/2024

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: 23/09/2024

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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.	50382
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	23/09/2024	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 %
32548	10:00	150	LOT 548 LOC ON ATT PLAN R.L. 16.12	32548	-	18.0	17.0	~~Adj.~~ 1.0 WET	2.07	~~Adj.~~ 2.09	**99.0**
				Material Description: ORANGE BROWN SILTY CLAY							
32549	10:30	150	ROAD 103 LOC ON ATT PLAN R.L. 16.03	32549	-	20.0	20.5	~~Adj.~~ 0.5 DRY	2.07	~~Adj.~~ 2.04	**101.5**
				Material Description: 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: 27/09/2024

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: 27/09/2024

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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.	50387
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 5	Date Tested	24/09/2024	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 %
32570	9:45	150	LOT 516 LOC ON ATT PLAN R.L. 16.24	32570	-	23.0	23.0	~~Adj.~~ -	2.05	~~Adj.~~ 2.03	**101.0**
				Material Description: YELLOW BROWN SILTY CLAY							
32571	10:30	150	LOT 518 LOC ON ATT PLAN R.L. 16.73	32571	-	26.5	27.0	~~Adj.~~ 0.5 DRY	1.98	~~Adj.~~ 1.99	**99.5**
				Material Description: REDDISH 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: 30/09/2024

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: 30/09/2024