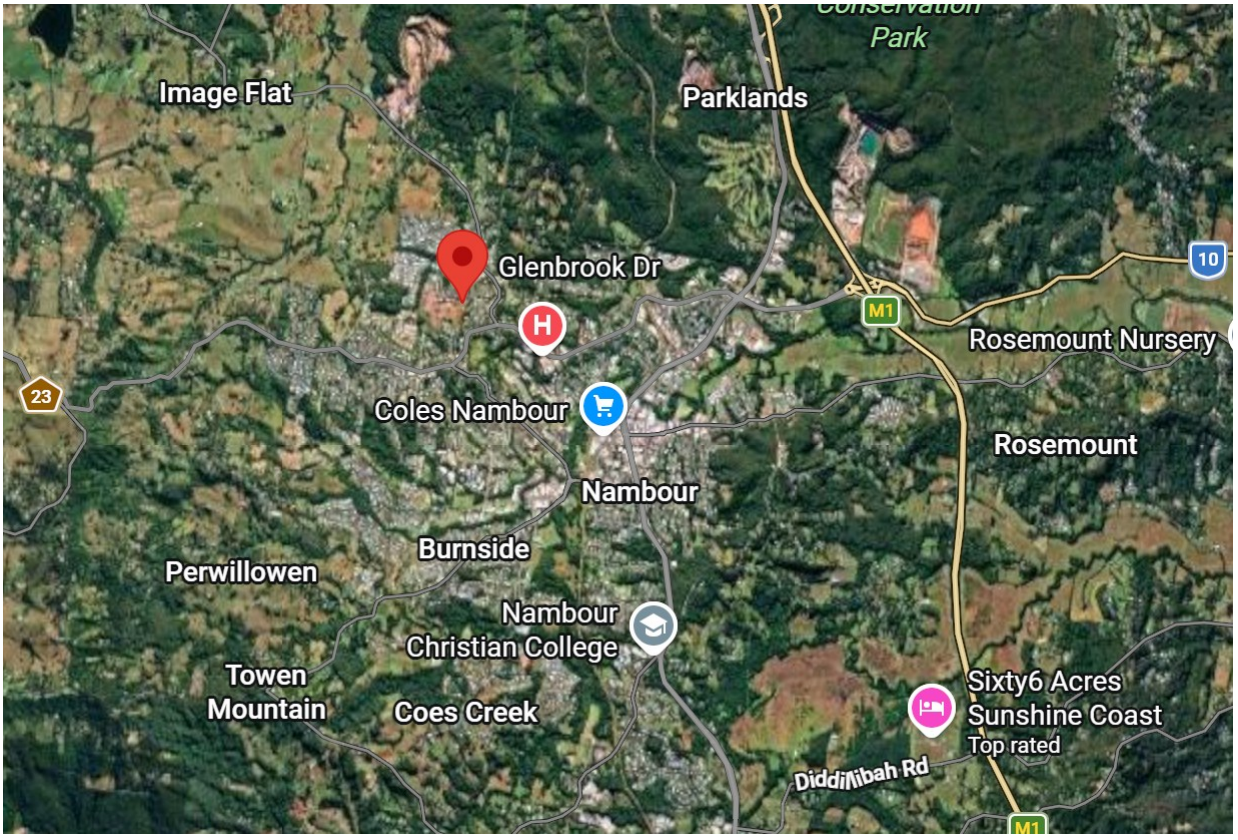
ABN 21 613397934 CQA Laboratory

P.O. Box 1225, Nambour, Qld 4560
126-128 Blackall Range Road Woombye

Civil Quality Assurance Pty Ltd T/A CQA
Ph - 0429 674334

For all Geotechnical Engineering and Civil Testing
Servicing Australasia

Level 1 Earthworks Certification, Stage 5 Subdivision off Glenbrook Drive, Nambour, Queensland.



Client: Sunshine Coast Civil Pty Ltd
Testing Authority: Civil Quality Assurance Pty Ltd
Date: 25 May 2026

1 Introduction

Civil quality Assurance (CQA) have been engaged by Sunshine Coast Civil Pty Ltd (SCC) to provide Level 1 Geotechnical testing services, in general accordance with AS 3798-2007 Guidelines on earthworks for commercial and residential developments and AS 2870-2011 Residential slabs and footings, at Stage 5 Subdivision off Glenbrook Drive, Nambour, Queensland 4560.

Up to 1.2m of Fill has been placed and supervised on the site by SCC and tested by CQA at the following locations:

- As indicated in blue on the plan in Appendix A

The site layout is shown in Appendix A.

2 Site Description

The site is located in an existing residential area.

Up to 20,000m^3 of Fill material has been placed on the site by SCC to a depth of up to 1.2m.

3 Fieldwork

Fourteen in-situ density tests and laboratory Proctor standard compaction tests were undertaken on the site by CQA and in the CQA Laboratory between 20 May 2026. Test locations are shown in Appendix A and test reports compiled by Civil Quality Assurance Pty Ltd are detailed in Appendix B.

All supervision of fill and the construction and material used for the filled platforms were performed solely by Sunshine Coast Civil. Test results are indicative of the material tested only. Test locations are approximate only

The amount and frequency of testing of the fill materials is sufficient to generally comply with Level 1 supervision in accordance with AS3798.

4 Test results

Test results (Appendix B) indicate that the fill has been compacted to between 95% and 105% of Standard Maximum Dry Density and generally at a moisture content of -1.5% to +1% of Optimum.

5 Conclusions

All test results indicate that the compaction requirements specified in Table 5.1 of AS3798 has been achieved for the fill placed by SCC and tested by CQA.

Level 1 Supervision generally in accordance with AS 3798 has been undertaken on the following Site areas:

- As indicated in blue on the plan in Appendix A

The fill placed on the site by SCC in the areas detailed above may be considered 'Controlled Fill' in general accordance with AS3798.

All supervision of fill and the construction and material used for the filled platforms were performed solely by Sunshine Coast Civil. Test results are indicative of the material tested only. Test locations are approximate only

Any other fill present on site shall be treated a 'Uncontrolled Fill' in accordance with AS3798 unless documentary evidence can be provided to the contrary.

This certification only provides an assurance of the density of the fill placed and supervised by SCC and tested by CQA. Particularly this report does not apply to the material left in-situ below the placed fill on the instructions of the Client.

Where varying depths of fill are placed over unknown underlying materials, differential consolidation and/or settlement is likely and should be considered during any overlying construction.

Unless otherwise stated, this certification does not address any other issues which may be relevant to foundation and building construction.

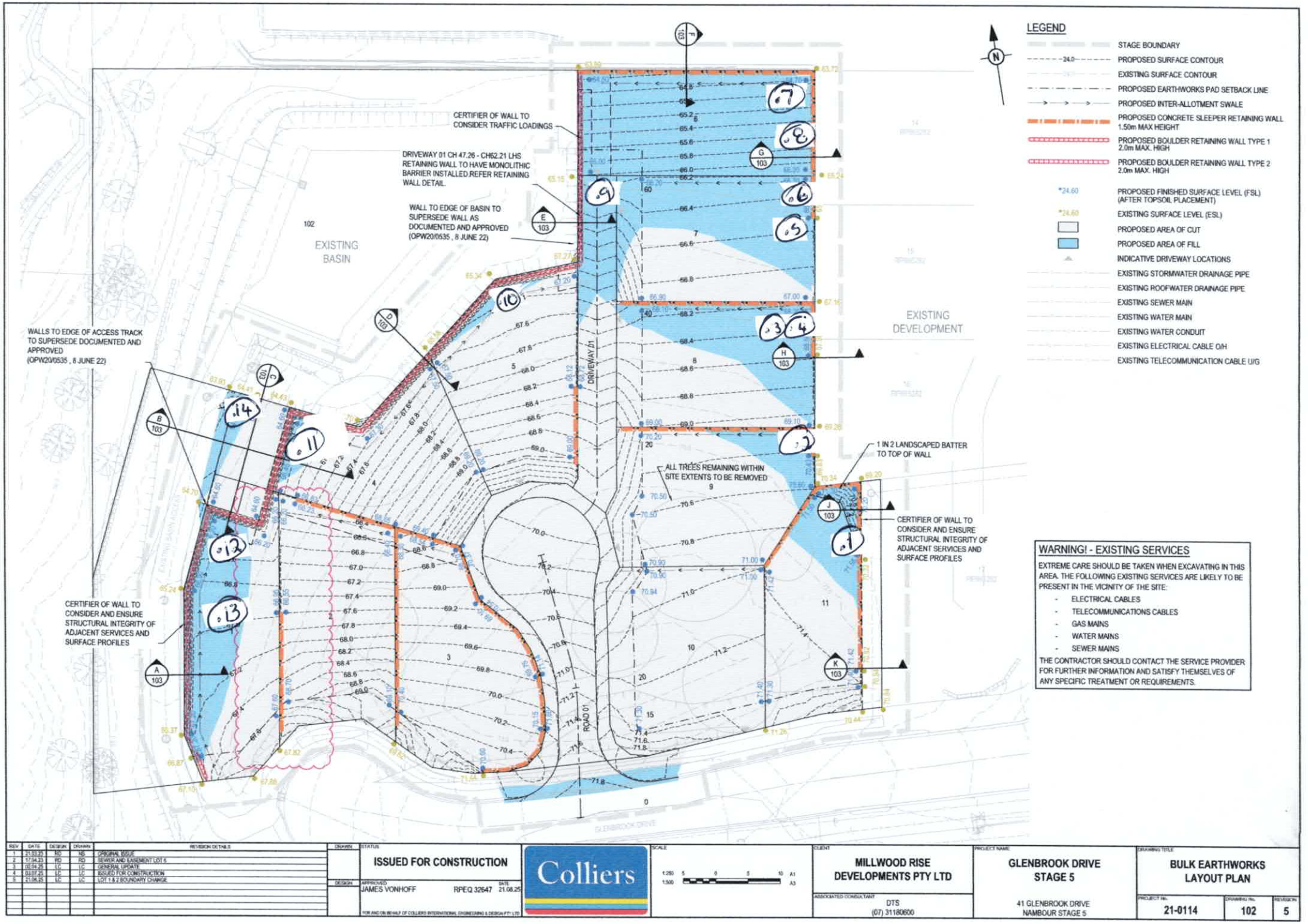
Report Prepared by:

Phil Band BEng MSc MIEAust CPEng NER AGS RPEQ 23841

Limitations

1. Scope and Reliance This report has been prepared solely for the client named and for the specific project, purpose, and scope agreed with Civil Quality Assurance T/A CQA. No other party may rely on this report without CQA's prior written consent. CQA accepts no responsibility for use of this report for any purpose other than that for which it was commissioned.
2. Limitations of Investigation Subsurface investigations are limited to the test locations, depths, and methods undertaken. Conditions between or beyond test points may differ significantly. CQA does not warrant that the investigation results represent all ground conditions across the site.
3. Interpretation and Professional Judgement Geotechnical assessments rely on interpretation of limited data and professional judgement. Findings are indicative only and are not a guarantee of actual ground conditions.
4. Sample, Testing, and Data Limitations Test results relate only to the samples tested and conditions at the time of sampling. Disturbance, moisture changes, or handling may influence results. Natural variability means results may not represent all materials present on site.
5. Groundwater Conditions - Groundwater levels and seepage conditions fluctuate due to seasonal, climatic, and construction-related factors. Observations represent conditions at the time only and may change without notice.
6. Changes in Site Conditions Site conditions may change due to weather, vegetation, adjacent works, or site activities. CQA is not responsible for changes occurring after the investigation or for impacts arising from such changes.
7. Tender-Stage Limitations and Design Dependencies All testing, assessments, and recommendations are based on the information, drawings, and project details available to CQA at the time of tendering or engagement. CQA accepts no responsibility for design changes, revised project requirements, or alterations made after the tender stage unless CQA has been formally re-engaged to review such changes. CQA is not responsible for the adequacy, accuracy, or suitability of designs, calculations, or documentation prepared by other consultants, designers, or third parties. Reliance on this report for updated or revised designs without CQA's written review and confirmation is expressly excluded.
8. Written Instructions Only CQA does not accept responsibility for any verbal instructions, approvals, directions, or variations. Only written instructions, written confirmations, or written authorisations issued by the client or principal contractor will be acted upon. Any verbal communication is invalid unless confirmed in writing. CQA expressly rejects any claim or assertion that verbal directions were relied upon.
9. Design, Construction, and Contractor Responsibilities Recommendations are based on the project information provided at the time of reporting. Any changes to design, loading, construction methodology, or site layout may invalidate the recommendations and require reassessment. Contractors must verify actual ground conditions during excavation and notify CQA of any discrepancies before proceeding. CQA is not responsible for construction decisions, temporary works, or contractor methodologies.
10. Shared Supervision and Site Monitoring Where CQA provides periodic or part-time site attendance, this does not constitute continuous supervision, direction, or control of the works. Responsibility for site safety, construction quality, compliance, and day-to-day supervision remains solely with the contractor and/or principal contractor. CQA is not liable for defects, non-conformances, or site practices occurring outside the periods of its attendance. Any reliance on CQA's presence as a form of shared or joint supervision is expressly rejected.
11. Exclusions – Structural, Civil, and Temporary Works This report does not provide structural design, footing design, pavement design, retaining wall design, or temporary works design unless explicitly stated. Separate specialist advice must be obtained for these matters. Limitations and exclusions for reports may not be attached to every report. If these Limitations and Exclusions are not provided it is the client's responsibility to request these documents at the time of report issue.
12. Environmental and Contamination Exclusions This report does not include contamination assessment, hazardous materials identification, acid sulfate soil assessment, or groundwater quality testing unless specifically included in the scope. Environmental investigations require separate specialist assessments.
13. Services, Utilities, and Obstructions Underground services, utilities, or obstructions have not been located or verified unless specifically noted. The client is responsible for engaging a certified service locator prior to excavation.
14. Geohazard Exclusions This report does not include assessment of landslip risk, erosion potential, flooding, seismic hazard, or other geohazards unless explicitly stated.
15. Third-Party Information CQA has relied on information provided by the client, designers, or third parties and assumes such information is accurate and complete. CQA accepts no liability for errors, omissions, or inaccuracies in information supplied by others.
16. No Certification of Existing Works This report does not certify the quality, compaction, or engineering suitability of existing fill, pavements, retaining structures, or previous site works unless explicitly stated.
17. Report Use and Reproduction This report must not be reproduced, distributed, or used for other projects, designs, or purposes without written approval from CQA. Unauthorised reproduction or reliance is at the user's own risk
18. Notification of Claims The client must notify CQA in writing of any issue, defect, concern, or potential claim arising from or relating to the services within 30 days of the date the issue was first identified or reasonably should have been identified. CQA is not liable for any loss, cost, or damage arising from matters not notified within this period. Statutory Rights Nothing in this report limits any statutory rights or limitation periods that cannot be excluded under Australian law. This clause operates solely as a contractual notification requirement and does not restrict the client's statutory ability to commence proceedings within the applicable limitation period.

Appendix A



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
1	31.03.25	RD	NS	ORIGINAL ISSUE
2	17.04.25	RD	RD	SEWER AND EASEMENT LOT 5
3	02.04.25	LC	LC	GENERAL UPDATE
4	03.07.25	LC	LC	ISSUED FOR CONSTRUCTION
5	21.08.25	LC	LC	LOT 1 & 2 BOUNDARY CHANGE

DRAWN
DESIGN

STATUS: **ISSUED FOR CONSTRUCTION**

APPROVED: JAMES VONHOFF — RPEQ 32647 — DATE: 21.08.25

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

Colliers

SCALE: 1:250 5 0 5 10 A1; 1:500 A3

CLIENT: **MILLWOOD RISE DEVELOPMENTS PTY LTD**

ASSOCIATED CONSULTANT: DTS (07) 31180600

PROJECT NAME: **GLENBROOK DRIVE STAGE 5**

41 GLENBROOK DRIVE NAMBOUR STAGE 5

DRAWING TITLE: **BULK EARTHWORKS LAYOUT PLAN**

PROJECT No.	DRAWING No.	REVISION
21-0114	102	5

Appendix B

NATA accredited facility no: 20084
CQA Laboratory

CIVIL QUALITY ASSURANCE Pty Ltd T/A
A.B.N. 21 61 339 7934

PO Box 1225, Nambour QLD 4560
Mob 0429 674 334

ACCREDITED FOR TECHNICAL COMPETENCE
Accredited for compliance with ISO/IEC 17025 - Testing

For All Civil Testing
Servicing South East Queensland

Test Report

CQA Laboratory Accredited for compliance with ISO/IEC 17025 - testing
Field dry density (sand cone pouring apparatus) and Density Ratio Australian Standards)

Project: Glenbrook Dr Stage 5 **Requested By: O/N**
Image Flat **Date: 20-4-26**
Client: Sunshine Coast Civil **Report No. 1906A**

Field Test Procedure:	AS1289 5.3.1 soils compaction and density tests-determination of the field density of a soil-sand replacement method using a sand-cone pouring apparatus, AS1289 .1.2.1 Sampling and preparation of soils-disturbed samples-standard method (6.4) Sampling from layers in earthworks or pavements(b) compacted
Laboratory Test Procedure	AS1289 5.4.1 Soil compaction and density tests-compaction control test-dry density ratio, moisture variation and moisture ratio, AS1289 5.1.1 (Soil compaction and density tests-determination of the dry density/moisture content of a soil using standard compactive effort), AS1289 2.1.1 moisture content tests- determination of the moisture content of a soil-oven drying method(standard method).
Over size sieve used (mm):	19.0
Was OMC & MDD assigned:	No
Was assignment values used:	No
Was the sample taken prior to compaction:	No
Curing Time:-	2
Liquid limit determination:	visual tactile assessment

Soil Description & Soil Layer thickness (m): **Allotment Fill +0.5m**
COMPACTION SPECIFICATION: **95% Standard Compaction**

TEST RESULTS

Laboratory Number	1906A.1	1906A.2	1906A.3	1906A.4	1906A.5
Date Tested/sampled	20-4-26	20-4-26	20-4-26	20-4-26	20-4-26
Location Approx.	Lot 11	Lot 9	Lot 8	Lot 8	Lot 7
Elevation/layer depth Approx.	+0.5m	+0.5m	+0.5m	F/L	+0.5m
Hole Depth (mm)	121	131	130	130	125

FIELD & LABORATORY DATA

Compacted Field Dry density (t/m3) (nearest 0.01)	2.24	2.19	2.21	1.99	1.99
Field Moisture Content (%) (nearest 0.5)	9.0	7.5	6.0	9.5	7.5
Mat. retained on oversize sieve (%) Dry (nearest 1)	7	8	7	9	9
Max. Dry Density (t/m3) (nearest 0.01)	2.10	2.06	2.07	2.06	2.05
Adjusted Max. Dry Density (t/m3) (nearest 0.01)	2.13	2.09	2.11	2.10	2.09
Adjusted Max. Dry Density Laboratory reference number	N/A	N/A	N/A	N/A	N/A
Optimum Moisture Content (%) (nearest 0.5)	9.0	8.0	7.5	8.5	8.0
Moisture Ratio (%) (nearest 0.5)	102.5	94.0	80.0	110.0	97.5
Variation of Optimum Moisture Content (%)	-0.5dry	-0.5dry	-1.5dry	+1.0wet	-0.5dry
Density Ratio (%) (nearest 0.5)	**105.0**	**105.0**	**1058.0**	**95.0**	**95.5**

NATA Accredited Facility No. :- 20084
ABN 21 61339 7934 CQA Laboratory
126-128 Blackall Range Rd Woombye
Form R18 November 2025

Approved Person: C. Templeton
Date: **24-5-26**

NATA accredited facility no: 20084
CQA Laboratory
CIVIL QUALITY ASSURANCE Pty Ltd T/A
A.B.N. 21 61 339 7934

PO Box 1225, Nambour QLD 4560
Mob 0429 674 334
NATA
ACCREDITED FOR TECHNICAL COMPETENCE
Accredited for compliance with ISO/IEC 17025 - Testing
For All Civil Testing
Servicing South East Queensland

Test Report

CQA Laboratory Accredited for compliance with ISO/IEC 17025 - testing
Field dry density (sand cone pouring apparatus) and Density Ratio Australian Standards)

Project: Glenbrook Dr Stage 5 **Requested By: O/N**
Image Flat **Date: 20-4-26**
Client: Sunshine Coast Civil **Report No. 1906A**

Field Test Procedure:	AS1289 5.3.1 soils compaction and density tests-determination of the field density of a soil-sand replacement method using a sand-cone pouring apparatus, AS1289 .1.2.1 Sampling and preparation of soils-disturbed samples-standard method (6.4) Sampling from layers in earthworks or pavements(b) compacted
Laboratory Test Procedure	AS1289 5.4.1 Soil compaction and density tests-compaction control test-dry density ratio, moisture variation and moisture ratio, AS1289 5.1.1 (Soil compaction and density tests-determination of the dry density/moisture content of a soil using standard compactive effort), AS1289 2.1.1 moisture content tests- determination of the moisture content of a soil-oven drying method(standard method).
Over size sieve used (mm):	19.0
Was OMC & MDD assigned:	No
Was assignment values used:	No
Was the sample taken prior to compaction:	No
Curing Time:-	2
Liquid limit determination:	visual tactile assessment

Soil Description & Soil Layer thickness (m): **Allotment Fill +0.5m**
COMPACTION SPECIFICATION: **95% Standard Compaction**

TEST RESULTS

Laboratory Number	1906A.6	1906A.7	1906A.8	1906A.9	1906A.10
Date Tested/sampled	20-4-26	20-4-26	20-4-26	20-4-26	20-4-26
Location Approx.	Lot 7	Lot 6	Lot 6	Driveway 01	Lot 5
Elevation/layer depth Approx.	F/L	+0.5m	F/L	F/L	F/L
Hole Depth (mm)	121	126	120	130	125

FIELD & LABORATORY DATA

Compacted Field Dry density (t/m3) (nearest 0.01)	2.15	2.11	2.15	2.17	2.18
Field Moisture Content (%) (nearest 0.5)	7.0	7.5	8.0	8.0	8.0
Mat. retained on oversize sieve (%) Dry (nearest 1)	7	7	7	8	8
Max. Dry Density (t/m3) (nearest 0.01)	2.05	2.07	2.08	2.09	2.10
Adjusted Max. Dry Density (t/m3) (nearest 0.01)	2.06	2.09	2.10	2.11	2.12
Adjusted Max. Dry Density Laboratory reference number	N/A	N/A	N/A	N/A	N/A
Optimum Moisture Content (%) (nearest 0.5)	8.0	8.0	8.0	8.0	8.5
Moisture Ratio (%) (nearest 0.5)	85.5	96.0	96.0	96.0	95.5
Variation of Optimum Moisture Content (%)	-1.0dry	-0.5dry	-0.5dry	-0.5dry	-0.5dry
Density Ratio (%) (nearest 0.5)	**104.0**	**101.0**	**102.5**	**103.0**	**103.0**

NATA Accredited Facility No. :- 20084
ABN 21 61339 7934 CQA Laboratory
126-128 Blackall Range Rd Woombye
Form R18 November 2025

Approved Person: C. Templeton
Date: **24-5-26**

NATA accredited facility no: 20084
CQA Laboratory
CIVIL QUALITY ASSURANCE Pty Ltd T/A
A.B.N. 21 61 339 7934

PO Box 1225, Nambour QLD 4560
Mob 0429 674 334
NATA
ACCREDITED FOR TECHNICAL COMPETENCE
Accredited for compliance with ISO/IEC 17025 - Testing
For All Civil Testing
Servicing South East Queensland

Test Report

CQA Laboratory Accredited for compliance with ISO/IEC 17025 - testing
Field dry density (sand cone pouring apparatus) and Density Ratio Australian Standards)

Project: Glenbrook Dr Stage 5 **Requested By: O/N**
Image Flat **Date: 20-4-26**
Client: Sunshine Coast Civil **Report No. 1906A**

Field Test Procedure:	AS1289 5.3.1 soils compaction and density tests-determination of the field density of a soil-sand replacement method using a sand-cone pouring apparatus, AS1289 .1.2.1 Sampling and preparation of soils-disturbed samples-standard method (6.4) Sampling from layers in earthworks or pavements(b) compacted
Laboratory Test Procedure	AS1289 5.4.1 Soil compaction and density tests-compaction control test-dry density ratio, moisture variation and moisture ratio, AS1289 5.1.1 (Soil compaction and density tests-determination of the dry density/moisture content of a soil using standard compactive effort), AS1289 2.1.1 moisture content tests- determination of the moisture content of a soil-oven drying method(standard method).
Over size sieve used (mm):	19.0
Was OMC & MDD assigned:	No
Was assignment values used:	No
Was the sample taken prior to compaction:	No
Curing Time:-	2
Liquid limit determination:	visual tactile assessment

Soil Description & Soil Layer thickness (m): **Allotment Fill +0.5m**
COMPACTION SPECIFICATION: **95% Standard Compaction**

TEST RESULTS

Laboratory Number	1906A.11	1906A.12	1906A.13	1906A.14	
Date Tested/sampled	20-4-26	20-4-26	20-4-26	20-4-26	
Location Approx.	Lot 4	Lot 1	Lot 1	Turn a round	
Elevation/layer depth Approx.	F/L	+0.5m	+1.0m	F/L	
Hole Depth (mm)	126	125	120	134	

FIELD & LABORATORY DATA

Compacted Field Dry density (t/m3) (nearest 0.01)	2.08	2.15	2.05	2.07	
Field Moisture Content (%) (nearest 0.5)	8.5	8.5	8.5	8.5	
Mat. retained on oversize sieve (%) Dry (nearest 1)	9	10	10	11	
Max. Dry Density (t/m3) (nearest 0.01)	2.09	2.10	2.10	21.09	
Adjusted Max. Dry Density (t/m3) (nearest 0.01)	2.12	2.14	2.15	2.15	
Adjusted Max. Dry Density Laboratory reference number	N/A	N/A	N/A	N/A	
Optimum Moisture Content (%) (nearest 0.5)	9.0	9.0	9.5	10.0	
Moisture Ratio (%) (nearest 0.5)	102.0	104.0	100.0	100.0	
Variation of Optimum Moisture Content (%)	0.0	+0.5wet	0.0	0.0	
Density Ratio (%) (nearest 0.5)	**97.5**	**100.5**	**95.5**	**96.5**	

Approved Person: C. Templeton
Date: **24-5-26**