Construction Sciences

Level One Inspection & Testing Report

MAIDENS GREEN, MOAMA – STAGE 4

Prepared for Northern Constructions Group PTY LTD

09/04/2024

Document Information	
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Report Name	Maidens Green, Moama – Stage 4
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Effective date: 9/04/2024

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Laboratory Manager
Date approved: 9/04/2024

DOCUMENT HISTORY

Version	Effective Date	Revision	Author	Reviewer	Recipient
001	09/04/24	-	M.Scoullar	S.Hardy	NCG

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1. Introduction

Construction Sciences is the largest private provider of construction materials testing services across Australia. We have a total staff of over 800 staff in 48 permanent offices/laboratories.

We have provided QA testing services to some of the largest road and mining infrastructure projects in these states, as well as overseas.

Over the last 3 to 4 years, Construction Sciences has established more site laboratories for road, rail, mining, and other large infrastructure projects than any other company.

We benefit our clients with the following clear differentiators;

- **Staff Mobilisation:** Construction Sciences' geographic expansion and mobility allow for teams to be available when required, and currently we have the lion's share of major projects in Australia.
- **Quality Management:** Construction Sciences' purpose-built software, COMPLY provides our clients with confidence, by knowing project data is securely stored. COMPLY has a built-in secure audit trail and a fully tracked Quality system. We are also ISO9001 compliant and certified.
- **Client Relationships:** We listen to your needs and respond with innovative solutions that are tailored for your business. We believe in building relationships with our staff and local community.
- **Safety:** At Construction Sciences we embrace a 'safety' culture and it is a key consideration with every project. Currently we are over 2 years LTI (lost time injury) free.

Construction Sciences Pty Ltd was commissioned by Northern Constructions Group PTY LTD to provide Level 1 inspection and testing services for the placement of fill at Maidens Green – Stage 4.

This report represents the results of inspection activities, compaction and moisture control, and laboratory testing carried out for the placement and quality of fill material at the project.

All works were carried out in accordance with:

- AS 1289 "*Methods of Testing Soils for Engineering Purposes*".
- AS3798-2007 "Guidelines on earthworks for commercial & residential developments"

PROJECT: Maidens Green, Moama – Stage 4

The earthworks for Stage 4 were carried out from August 2023

Figure 1.1: Project Location – Maidens Green, Stage 4, Moama, NSW

2. Specification Requirements

Filling was carried out in accordance with AS3798-2007 *'Guidelines on earthworks for commercial and residential developments'* and with the project specification prepared for the project.

The specification requirements were that all fill was to be placed and compacted in layers to a density ratio of not less than 95% of the maximum dry density as determined by AS1289 "*Methods of Testing Soils for Engineering Purposes*"

3. Site Works

3.1 Existing Surface Assessments

Prior to commencement of filling, it was confirmed that all unsuitable and weaker material such as top soil, silt, uncontrolled or loose soil, organic effected material and other wet/soft areas had been appropriately stripped to a firm base in accordance with AS 3798-2007. The exposed surface, after removal of unsuitable material, was compacted and checked for soft areas by proof rolling. Where no movement or vertical deflection was detected, the stripped surface was assessed to be suitable for the placement of fill.

3.2 Fill Placement

Material used in the earthworks for Level 1 areas of Stage 4 was sourced from onsite and conditioned for use. Estimated fill quantity was approximately 3197m^3 of controlled fill equating to 1 test every 246m^3.
All fill material on site was inspected by Construction Sciences site representative to ensure it meets the **"suitable material"** requirements outlined in AS3798-2007.

The fill material placed/compacted typically comprised of:

- (CI) SANDY CLAY of medium plasticity.

Placement of fill was carried out using the following plants:

- 1* Backhoe
- 1* Pad-foot compactor.
- 1* Excavator
- 1* Water Cart
- 1* Laser Bucket

The fill material was spread in near-horizontal layers, moisture conditioned and compacted in successive layers, using available compactors.

4. Compaction Control Testing

Compaction control tests were carried out at regular intervals throughout the placement of fill in accordance with the minimum test frequency recommendations included in AS3798-2007 *'Guidelines on earthworks for commercial and residential developments'*. All test results are included in the Appendix B. A summary of the test results is included as Table 1. A total of 13 field density tests were carried out throughout the earthworks. The average density ratio was 100.77% with a standard deviation of 1.339%.

4.1 Summary of Field Testing

Date	Allotment No.	RL	Density Ratio
14/08/2023	411	94.91	100.0
14/08/2023	412	94.64	98.5
14/08/2023	414	94.60	100.5
17/08/2023	417	94.89	101.5
17/08/2023	416	94.87	102.5
17/08/2023	415	94.87	100.5
17/08/2023	414	94.89	100.5
17/08/2023	413	94.90	104.0
17/08/2023	412	94.85	99.5
17/08/2023	411	94.81	101.5
17/08/2023	410	94.73	100.0
28/08/2023	420	94.70	100.0
28/08/2023	423	95.10	101.0

Table 4.1: Summary of field density test results - Level One Inspection & Testing Report

5. Conclusion

It is considered that the placement of fill at Maidens Green Stage 4 was carried out in a controlled manner and the fill was compacted to a dry density ratio not less than the specified requirement. It is concluded that the fill may be deemed to be *'controlled fill'* in accordance with AS2870 – 2011 *'Residential Slabs & Footings'*.

6. Limit of Liability

This report has been produced for, and is the property of our client Northern Construction Group.

Construction Sciences accepts no liability to any third party, and will not enter into any communication with a third party regarding this report.

Construction Sciences will not release this report to any third party without the written permission of our Client.

Appendix A

Stripping Inspection

Construction Sciences

Daily Geotechnical Report

Client:	Northern Construction Group	**Test Request Number:**	23860/T/16464
Project:	Maidens Green	**Project Number:**	23860/P/307
Client Reference:	-	**Inspector:**	Mark Scoullar
Owner:	Mark Scoullar	**Inspection Date:**	12/08/2023
Constructor:	Northern Construction	**Arrival Time:**	11:15
Superintendent:	Damian Smith	**Departure Time:**	11:55

Earthworks in current progress	**Element:**	
	Result:	Stripping of topsoil and removal of all organic material from Stage 4
Materials testing	**Element:**	Refer to material, type, source, purpose of testing, sampling methods and locations, test types, sample reference numbers, results obtained, and to whom distributed.
	Result:	No material testing carried out, stripping inspection only
Field density testing	**Element:**	Refer to types of test, section of work to which tests apply, test locations and levels, test reference numbers, results obtained, and to whom distributed.
	Result:	No field testing conducted
Laboratory compaction testing	**Element:**	Refer to test methods, location of sampling, sample reference numbers, results obtained, and to whom distributed.
	Result:	No material to be tested in laboratory
Works meeting geotechnical requirements	**Element:**	Refer to work type (e.g. stripping, subgrade compaction), basis of assessment (e.g. inspection, test reference numbers, and the like), extent of works apparently complying and requirements met.
	Result:	Yes
Works failing to meet geotechnical requirements	**Element:**	Refer to work type (e.g., stripping, subgrade compaction), basis of assessment (e.g., inspection, test reference numbers, and the like), extent of work apparently failing to comply, requirements not met, action taken (instructions issued, retests ordered, and the like).
	Result:	NA
Remarks	**Element:**	Include observations on works, site conditions, meetings or conversations on site, and the like.
	Result:	Continue works

Reviewed By: Mark Scoullar	**Corrective Action Required?** No	**Re-Inpsection Date:** -
	Corrective Action Details:	

Construction Sciences

Daily Geotechnical Report

Client:	Northern Construction Group	**Test Request Number:**	23860/T/16464
Project:	Maidens Green	**Project Number:**	23860/P/307
Client Reference:	-	**Inspector:**	Mark Scoullar
Owner:	Mark Scoullar	**Inspection Date:**	12/08/2023
Constructor:	Northern Construction	**Arrival Time:**	11:15
Superintendent:	Damian Smith	**Departure Time:**	11:55

Image Description:

Image Description:

Reviewed By:	Mark Scoullar	**Corrective Action Required?** No	**Re-Inpsection Date:** -

Construction Sciences

Daily Geotechnical Report

Client:	Northern Construction Group	**Test Request Number:**	23860/T/16464
Project:	Maidens Green	**Project Number:**	23860/P/307
Client Reference:	-	**Inspector:**	Mark Scoullar
Owner:	Mark Scoullar	**Inspection Date:**	12/08/2023
Constructor:	Northern Construction	**Arrival Time:**	11:15
Superintendent:	Damian Smith	**Departure Time:**	11:55

Image Description:

Reviewed By:	Mark Scoullar	**Corrective Action Required?** No	**Re-Inpsection Date:** -

Appendix B

Field Density Test Results

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LOT REPORT - WET DENSITY RATIO

Client:	Northern Construction Group	Report Number:	23860/R/46912-1
Client Address:	33 Mundarra Rd, Echuca	Project Number:	23860/P/307
Project:	Maidens Green	Lot Number:	
Location:	Moama	Internal Test Request:	23860/T/21553
Component:	Allotment Fill	Client Reference/s:	Stage 4
Area Description:	Stage 4	Report Date / Page:	21/08/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1

Sample Number	23860/S/105327	23860/S/105328	23860/S/105329	
ID / Client ID	-	-	-	
Lot Number	-	-	-	
Date / Time Tested	14/08/2023 14:00	14/08/2023 14:00	14/08/2023 14:00	
Material Source	Onsite	Onsite	Onsite	
Material Type	Allotment Fill	Allotment Fill	Allotment Fill	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	
Standard or Modified	Standard	Standard	Standard	
Easting	299283.37	299285.55	299288.41	
Northing	6002753.75	6002778.09	6002799.82	
RL m	94.66	94.64	94.60	
Lot	411	412	414	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	0	0	
Compaction Sample Number	23860/S/105327	23860/S/105328	23860/S/105329	
Sample Description	Silty Clay	Silty Clay	Silty Clay	
Moisture Test Results:				
Field Moisture Content (%)	10.1	9.6	10.5	
Adjusted / Moist. Variation (%)	**2.0**	**2.0**	**2.0**	
Density Test Results:				
Field Wet Density (t/m³)	2.04	2.03	2.05	
Adj/Peak Conv Wet Density (t/m³)	2.04	2.06	2.03	
Density Ratio Required (%)	95	95	95	
Hilf Density Ratio (%)	**100.0**	**98.5**	**100.5**	

Remarks

NATA

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 1986
Corporate Site Number: 23860

Approved Signatory: Mark Scoullar
Form ID: W5ASRepSum Rev 5

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LOT REPORT - WET DENSITY RATIO

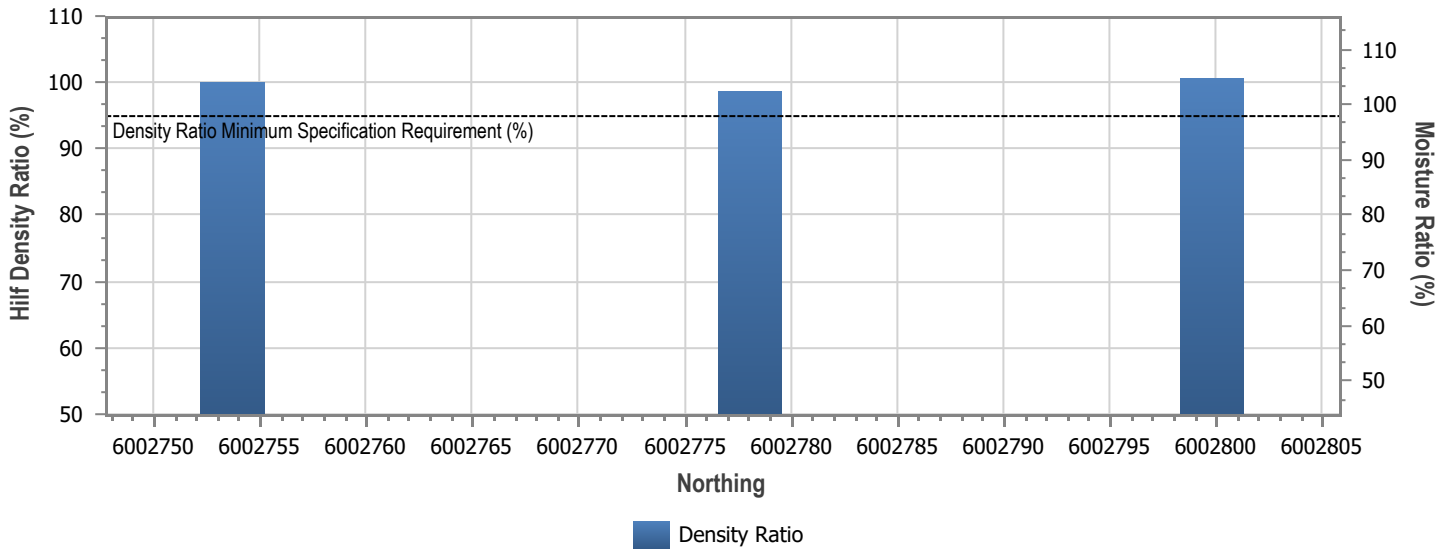
Client:	Northern Construction Group	Report Number:	23860/R/46912-1
Client Address:	33 Mundarra Rd, Echuca	Project Number:	23860/P/307
Project:	Maidens Green	Lot Number:	
Location:	Moama	Internal Test Request:	23860/T/21553
Component:	Allotment Fill	Client Reference/s:	Stage 4
Area Description:	Stage 4	Report Date / Page:	21/08/2023 Page 2 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-	-	

LOT TEST RESULT SUMMARY



Tests in Lot = 3	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Hilf Density Ratio (%)	98.6	100.6	99.7	1.026

Lot Number: -

Mean Density Ratio (%): 99.7

Remarks

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LOT REPORT - WET DENSITY RATIO

Client:	Northern Construction Group	Report Number:	23860/R/46913-1
Client Address:	33 Mundarra Rd, Echuca	Project Number:	23860/P/307
Project:	Maidens Green	Lot Number:	Allotment Fill - Stage 4 & 5
Location:	Moama	Internal Test Request:	23860/T/21522
Component:	Existing - Insitu	Client Reference/s:	Stage 4 & 5 - Compaction - Allotmen
Area Description:	Stage 4 & 5	Report Date / Page:	21/08/2023 Page 1 of 4

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1

Sample Number		23860/S/105157	23860/S/105158	23860/S/105159	23860/S/105160
ID / Client ID		Stage 4	Stage 4	Stage 4	Stage 4
Lot Number		Allotment Fill - Stage 4 & 5	Allotment Fill - Stage 4 & 5	Allotment Fill - Stage 4 & 5	Allotment Fill - Stage 4 & 5
Date / Time Tested		17/08/2023 07:50	17/08/2023 07:50	17/08/2023 07:50	17/08/2023 07:50
Material Source		Insitu	Insitu	Insitu	Insitu
Material Type		Existing	Existing	Existing	Existing
Sampling Method		AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)		175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200
Standard or Modified		Standard	Standard	Standard	Standard
Eastings	m	299272.15	299271.21	299273.05	299276.50
Northings	m	6002692.94	6002711.96	6002729.19	6002750.09
RL	m	94.89	94.87	94.87	94.89
Lot		417	416	415	414
Test Fraction (mm)		< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)		0	0	0	0
Compaction Sample Number		23860/S/105157	23860/S/105158	23860/S/105159	23860/S/105160
Sample Description		Existing	Existing	Existing	Existing
Moisture Test Results:					
Field Moisture Content (%)		11.9	10.7	13.6	12.6
Adjusted / Moist. Variation (%)		**2.0**	**0.0**	**2.0**	**0.0**
Density Test Results:					
Field Wet Density (t/m³)		2.14	2.14	2.11	2.12
Adj/Peak Conv Wet Density (t/m³)		2.11	2.08	2.10	2.10
Density Ratio Required (%)		95	95	95	95
Hilf Density Ratio (%)		**101.5**	**102.5**	**100.5**	**100.5**

Remarks

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Corporate Site Number: 23860

Approved Signatory: Mark Scoullar
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LOT REPORT - WET DENSITY RATIO

Client:	Northern Construction Group	Report Number:	23860/R/46913-1
Client Address:	33 Mundarra Rd, Echuca	Project Number:	23860/P/307
Project:	Maidens Green	Lot Number:	Allotment Fill - Stage 4 & 5
Location:	Moama	Internal Test Request:	23860/T/21522
Component:	Existing - Insitu	Client Reference/s:	Stage 4 & 5 - Compaction - Allotmen
Area Description:	Stage 4 & 5	Report Date / Page:	21/08/2023 Page 2 of 4

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1

Sample Number		23860/S/105161	23860/S/105162	23860/S/105163	23860/S/105164
ID / Client ID		Stage 4	Stage 4	Stage 4	Stage 4
Lot Number		Allotment Fill - Stage 4 & 5	Allotment Fill - Stage 4 & 5	Allotment Fill - Stage 4 & 5	Allotment Fill - Stage 4 & 5
Date / Time Tested		17/08/2023 07:50	17/08/2023 07:50	17/08/2023 07:50	17/08/2023 07:50
Material Source		Insitu	Insitu	Insitu	Insitu
Material Type		Existing	Existing	Existing	Existing
Sampling Method		AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)		175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200
Standard or Modified		Standard	Standard	Standard	Standard
Eastings	m	299276.83	299279.97	299279.56	299283.04
Northings	m	6002766.77	6002786.99	6002807.15	6002821.02
RL	m	94.90	94.85	94.81	94.73
Lot		413	412	411	410
Test Fraction (mm)		< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)		0	0	0	0
Compaction Sample Number		23860/S/105161	23860/S/105162	23860/S/105163	23860/S/105164
Sample Description		Existing	Existing	Existing	Existing
Moisture Test Results:					
Field Moisture Content (%)		12.3	11.2	11.5	11.5
Adjusted / Moist. Variation (%)		**0.0**	**0.0**	**0.0**	**0.0**
Density Test Results:					
Field Wet Density (t/m³)		2.18	2.08	2.16	2.12
Adj/Peak Conv Wet Density (t/m³)		2.10	2.10	2.13	2.12
Density Ratio Required (%)		95	95	95	95
Hilf Density Ratio (%)		**104.0**	**99.5**	**101.5**	**100.0**

Remarks

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LOT REPORT - WET DENSITY RATIO

Client:	Northern Construction Group	Report Number:	23860/R/46913-1
Client Address:	33 Mundarra Rd, Echuca	Project Number:	23860/P/307
Project:	Maidens Green	Lot Number:	Allotment Fill - Stage 4 & 5
Location:	Moama	Internal Test Request:	23860/T/21522
Component:	Existing - Insitu	Client Reference/s:	Stage 4 & 5 - Compaction - Allotmen
Area Description:	Stage 4 & 5	Report Date / Page:	21/08/2023 Page 3 of 4

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1

Sample Number		23860/S/105165	23860/S/105166	23860/S/105167	23860/S/105168
ID / Client ID		Stage 5	Stage 5	Stage 5	Stage 5
Lot Number		Allotment Fill - Stage 4 & 5	Allotment Fill - Stage 4 & 5	Allotment Fill - Stage 4 & 5	Allotment Fill - Stage 4 & 5
Date / Time Tested		17/08/2023 07:50	17/08/2023 07:50	17/08/2023 07:50	17/08/2023 07:50
Material Source		Insitu	Insitu	Insitu	Insitu
Material Type		Existing	Existing	Existing	Existing
Sampling Method		AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)		175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200
Standard or Modified		Standard	Standard	Standard	Standard
Eastings	m	299262.25	299332.58	299339.81	299341.90
Northings	m	6002849.06	6002834.07	6002831.87	6002790.86
RL	m	94.45	94.57	94.58	94.63
Lot		Drain #1	Drain #2	Drain Sump	Tree Hole
Test Fraction (mm)		< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)		0	0	0	0
Compaction Sample Number		23860/S/105165	23860/S/105166	23860/S/105167	23860/S/105168
Sample Description		Existing	Existing	Existing	Existing
Moisture Test Results:					
Field Moisture Content (%)		12.2	12.1	11.9	12.3
Adjusted / Moist. Variation (%)		**0.0**	**0.0**	**0.0**	**0.0**
Density Test Results:					
Field Wet Density (t/m³)		2.08	2.00	2.12	2.09
Adj/Peak Conv Wet Density (t/m³)		2.13	2.10	2.12	2.14
Density Ratio Required (%)		95	95	95	95
Hilf Density Ratio (%)		**98.0**	**95.0**	**100.0**	**97.5**

Remarks

NATA

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LOT REPORT - WET DENSITY RATIO

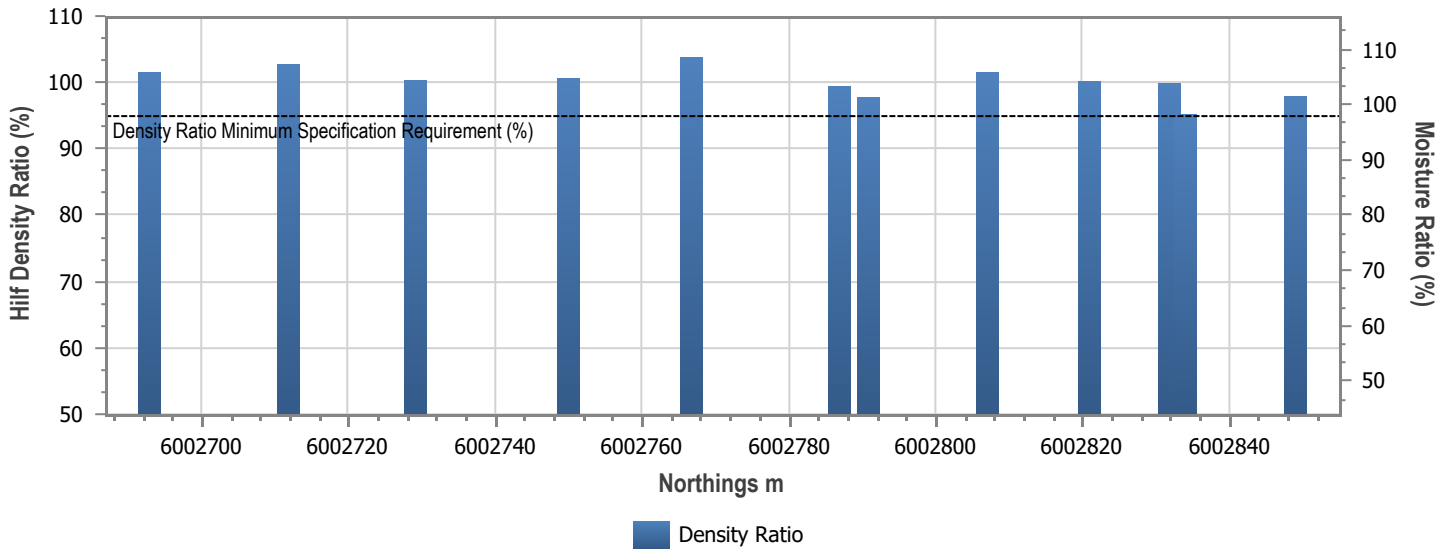
Client:	Northern Construction Group	Report Number:	23860/R/46913-1
Client Address:	33 Mundarra Rd, Echuca	Project Number:	23860/P/307
Project:	Maidens Green	Lot Number:	Allotment Fill - Stage 4 & 5
Location:	Moama	Internal Test Request:	23860/T/21522
Component:	Existing - Insitu	Client Reference/s:	Stage 4 & 5 - Compaction - Allotmen
Area Description:	Stage 4 & 5	Report Date / Page:	21/08/2023 Page 4 of 4

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-	-	

LOT TEST RESULT SUMMARY



Tests in Lot = 12	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Hilf Density Ratio (%)	95.2	103.8	100.0	2.333

Lot Number: Allotment Fill - Stage 4 & 5

Mean Density Ratio (%): 100.0

Remarks

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LOT REPORT - WET DENSITY RATIO

Client:	Northern Construction Group	Report Number:	23860/R/47155-1
Client Address:	33 Mundarra Rd, Echuca	Project Number:	23860/P/307
Project:	Maidens Green	Lot Number:	Stage 4
Location:	Moama	Internal Test Request:	23860/T/21628
Component:	Existing - Allotment Fill	Client Reference/s:	Stage 4 - Allotment Fill
Area Description:	Eastings/Northings	Report Date / Page:	1/09/2023 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1

Sample Number		23860/S/105649	23860/S/105650		
ID / Client ID		-	-		
Lot Number		Stage 4	Stage 4		
Date / Time Tested		28/08/2023 07:35	28/08/2023 07:35		
Material Source		Insitu	Insitu		
Material Type		Allotment Fill	Allotment Fill		
Sampling Method		AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b		
Depths: Test / Nom / Actual (mm)		225 / 250 / 250	225 / 250 / 250		
Standard or Modified		Standard	Standard		
Eastings	m	299269.60	299283.73		
Northings	m	6002650.61	6002673.94		
RL	m	94.70	95.10		
Lot		420	423		
Test Fraction (mm)		< 19.0 mm	< 19.0 mm		
Sample Oversize (%)		0	0		
Compaction Sample Number		23860/S/105649	23860/S/105650		
Sample Description		Existing	Existing		
Moisture Test Results:					
Field Moisture Content (%)		9.4	9.8		
Adjusted / Moist. Variation (%)		**2.0**	**2.0**		
Density Test Results:					
Field Wet Density (t/m³)		2.08	2.02		
Adj/Peak Conv Wet Density (t/m³)		2.06	2.04		
Density Ratio Required (%)		95	95		
Hilf Density Ratio (%)		**101.0**	**99.0**		

Remarks

NATA

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Accreditation Number: 1986
Corporate Site Number: 23860

Approved Signatory: Mark Scoullar
Form ID: W5ASRepSum Rev 5

Construction Sciences

Construction Sciences Pty Ltd
ABN: 74 128 806 735

Address:
26-28 Hume Street,
Echuca VIC 3564

Laboratory: **Echuca Laboratory**
Phone: 03 5444 4810
Fax: 03 5444 4812
Email: Bendigo@constructionsciences.net

LOT REPORT - WET DENSITY RATIO

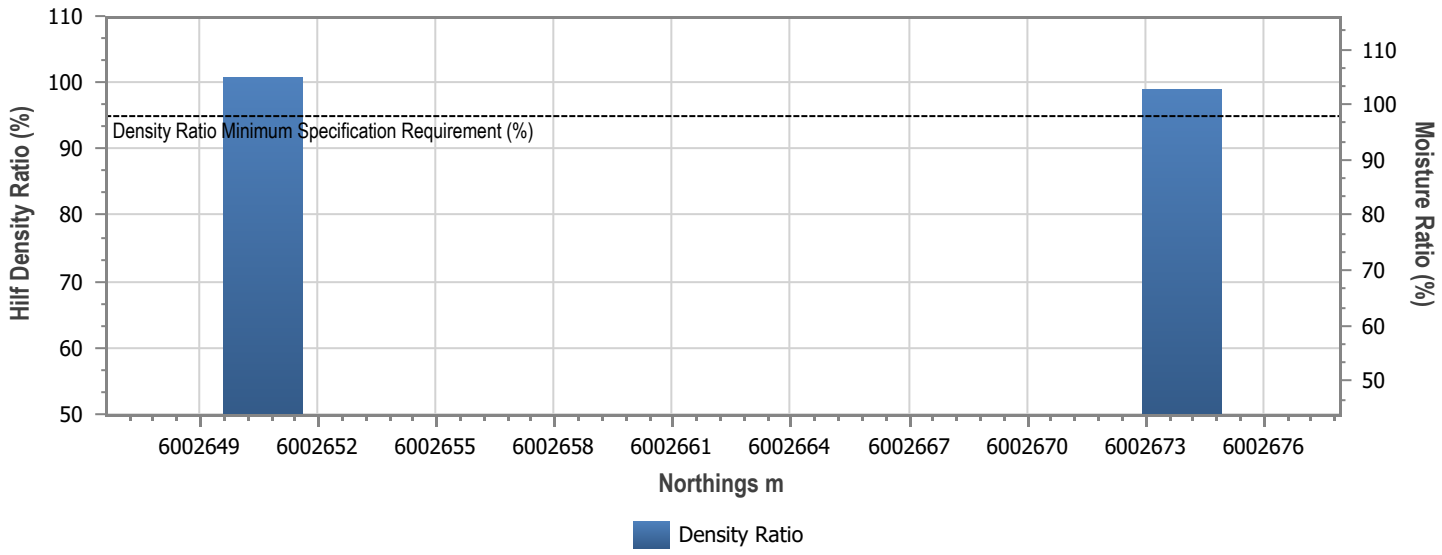
Client:	Northern Construction Group	Report Number:	23860/R/47155-1
Client Address:	33 Mundarra Rd, Echuca	Project Number:	23860/P/307
Project:	Maidens Green	Lot Number:	Stage 4
Location:	Moama	Internal Test Request:	23860/T/21628
Component:	Existing - Allotment Fill	Client Reference/s:	Stage 4 - Allotment Fill
Area Description:	Eastings/Northings	Report Date / Page:	1/09/2023 Page 2 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-	-	

LOT TEST RESULT SUMMARY



Tests in Lot = 2	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Hilf Density Ratio (%)	99.0	100.8	99.9	1.276

Lot Number: Stage 4

Mean Density Ratio (%): 99.9

Remarks

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