

Level 1 Supervision & Inspection Report

OLIVINE ESTATE STAGE 29

Prepared for Winslow Constructors Pty Ltd

21 August 2025





Document Information

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DOCUMENT HISTORY

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1	13/08/2025	01	Luke Mission	Bob Harris	Alex Dao

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Introduction

Construction Sciences is the largest private provider of construction materials testing services across Australia. We have a total staff of over 600 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 Winslow Constructors Pty Ltd to provide Level 1 inspection and testing services for the placement of fill at the proposed residential development: Lots 2003 - 2006

PROJECT: Olivine Estate Stage 29

ADDRESS: North of Igneous Wy, Donnybrook VIC 3064

The earthworks were carried out from 7/08/2025 to 12/08/2025.

The material used as structural fill was bought in externally and a total of approximately under 500m³ of structural fill has been implemented and was being placed and compacted as at 7th of August 2025. The fill volume has been determined from site supervision records and supported information provided by the civil contractor Winslow Constructors Pty.



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 compacted fill must be placed and compacted in layers to a density ratio of not less than 95% of the maximum wet density as determined by AS1289.5.7.1 (standard compaction).

Existing Surface Assessments

Prior to commencement of filling, Construction Sciences confirmed that all unsuitable and weaker material such as topsoil, silt, uncontrolled or loose soil, organic effected material and other wet areas had been appropriately stripped in accordance with AS 3798-2007. The exposed surface after removal of unsuitable material was compacted by 12 Ton pad foot roller and checked for soft areas to see if any ground movement occurred beneath the wheels as it was driven along the pad at walking space.

Where no movement or vertical deflection was detected, the stripped surface was assessed to be suitable for the placement of fill.

Fill Placement -Structural Fill

The structural fill works begun on the 7th of August 2025 and fill was placed as the backfill layer initially. All fill material on site was inspected and deemed to be acceptable.

The fill material typically comprised of:

- Onsite Clay: Dark Brown/Black, High plasticity

Placement of fill was carried out using the following plant:

- Excavator
- CAT Pad foot Roller
- Water Truck
- Moxie Truck

The fill material was spread in near-horizontal layers and compacted in successive layers to a maximum compacted thickness of 200mm, using a 12 Ton pad-foot Roller & compactor.



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.

Disturbed samples taken from each density test site were tested at Construction Sciences' NATA accredited soil laboratory, using the HILF rapid compaction method, in accordance with AS 1289 5.7.1.

Date	Sample No.	Report No	Density Ratio %	Moisture Ratio %	Layer number
07/08/2025	S/25-70394	R/25-24479-1	98.0	107.5	1
07/08/2025	S/25-70395	R/25-24479-1	98.0	102.5	1
07/08/2025	S/25-70396	R/25-24479-1	101.5	103.5	1
07/08/2025	S/25-70397	R/25-24479-1	98.5	100.0	1
08/08/2025	S/25-70887	R/25-24818-1	104.0	99.5	2
08/08/2025	S/25-70888	R/25-24818-1	102.0	98.0	2
08/08/2025	S/25-70889	R/25-24818-1	102.0	100.5	2
08/08/2025	S/25-70890	R/25-24818-1	103.5	100.5	2
11/08/2025	S/25-72179	R/25-25061-1	96.0	89.5	1
11/08/2025	S/25-72180	R/25-25061-1	97.5	90.5	1
11/08/2025	S/25-72181	R/25-25061-1	101.0	92.0	1
11/08/2025	S/25-72182	R/25-25061-1	99.0	97.5	1
11/08/2025	S/25-72183	R/25-25061-1	97.5	91.0	1
12/08/2025	S/25-72234	R/25-25064-1	98.5	91.0	2
12/08/2025	S/25-72235	R/25-25064-1	97.5	90.5	2
12/08/2025	S/25-72236	R/25-25064-1	99.5	91.5	2



- **Mean Density Ratio** = 99.6%
- **Mean Moisture Ratio** = 95.6%
- **Density Standard Deviation** = 2.31%
- **Moisture Standard Deviation** = 5.5%

A summary of the test results is included as Table 1 &. A total of 16 field density tests were carried out throughout the period of fill placement. The average density ratio of **99.6%** with a standard deviation of **2.31%** and average moisture ratio of **95.6%** with a standard deviation of **5.5%**

Site Investigations

Site investigations for Olivine Estate Stage 29 were conducted in accordance with AS 3798, which stipulates that specific unsuitable materials must not be incorporated into structural fills. The images below illustrate stockpiles containing materials observed on site.

Oversize aggregates:



Figure 2. Oversize Aggregates on stockpile

During site visits conducted between August 7, 2025, and August 12, 2025, oversized aggregates or boulders were observed in structural fill areas. These aggregates were sourced from Onsite – Clay In situ Locations.

In accordance with AS 3798, the presence of boulders in sufficient proportions is not permitted in fills, as they may adversely impact compaction, moisture content for testing, and the overall quality of earthworks fills.

Discussions with the Foreman and Dozer operator, focused on the extraction of oversized boulders from the fill. The operator confirmed that he separates the boulders and oversize aggregates away from the designated structural fill and will not be included in the designated fill locations.



Conclusion

It is considered that the placement of fill at North of Igneous Wy, Donnybrook VIC 3064 was carried out in a controlled manner and the fill was compacted to a wet 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*'. This report includes compaction and moisture control results for Olivine Estate Stage 29.

General Statement of Compliance

It is considered that the fill material placed at North of Igneous Wy, Donnybrook VIC 3064 between the dates of 7th to 12st of August 2025 were carried out in accordance with AS3798-2007 "*Guidelines on earthworks for commercial and residential developments*".

Limit of Liability

This report has been produced for, and is the property of our client Winslow Constructors PTY.

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



Appendix A

Layout Plan

Appendix B

Field Density Test Results



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LOT REPORT - WET DENSITY RATIO

Client: Winslow Infrastructure Pty Ltd	Report Number: 14874/R/25-24479-1
Client Address: 2 Central Blvd, Port Melbourne	Project Number: 14874/P/3155
Project: Olivine Estate - Stage 29	Lot Number: n/a
Location: Various	Internal Test Request: 14874/T/25-9838
Component: Lots 2923, 2942, 2936	Client Reference/s: Level 1 Supervision 7/8/25
Area Description: R.T.M	Report Date / Page: 12/08/2025 Page 1 of 2

Test Procedures:	A51289.5.7.1, RC301.01, A51289.5.8.1, A51289.2.1.1
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Sample Number	14874/S/25-70394	14874/S/25-70395	14874/S/25-70396	14874/S/25-70397
ID / Client ID	Level 1 Supervision 7/8/25	Level 1 Supervision 7/8/25	Level 1 Supervision 7/8/25	Level 1 Supervision 7/8/25
Lot Number	n/a	n/a	n/a	n/a
Date / Time Tested	7/08/2025 15:15	7/08/2025 15:15	7/08/2025 15:15	7/08/2025 15:15
Material Source	Onsite	Onsite	Onsite	Onsite
Material Type	Clay	Clay	Clay	Clay
Sampling Method	A51289.1.2.1 Cl 6.4b	A51289.1.2.1 Cl 6.4b	A51289.1.2.1 Cl 6.4b	A51289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / -	175 / 200 / -	175 / 200 / -
Standard or Modified	Standard	Standard	Standard	Standard
Layer Number	Layer 1	Layer 1	Layer 1	Layer 1
Location Number	1	2	3	4
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	7	7	10
Compaction Sample Number	14874/S/25-70394	14874/S/25-70395	14874/S/25-70396	14874/S/25-70397
Sample Description	Clay	Clay	Clay Liner	Clay Liner
Moisture Test Results:				
Field Moisture Content (%)	24.2	20.8	25.0	20.9
Adjusted / Moist. Variation (%)	-1.5	-0.5	-1.0	0.0
Optimum Moisture Content (%)	22.5	20.5	24.0	21.0
Moisture Variation from OMC	(Wetter than OMC)	(Wetter than OMC)	(Wetter than OMC)	(at OMC)
Moisture Ratio (%)	107.5	102.5	103.5	100.0
Density Test Results:				
Field Wet Density (t/m ³)	1.94	1.95	2.01	1.95
Adj/Peak Conv Wet Density (t/m ³)	1.98	1.98	1.99	1.98
Density Ratio Required (%)	95	95	95	95
Hiif Density Ratio (%)	98.0	98.0	101.5	98.5

Remarks

	Accredited for compliance with ISO/IEC 17025 – Testing	
	Accreditation Number: 1986 Corporate Site Number: 14874	Approved Signatory: Nawin Dahal Form ID: W5ASMRRepSum Rev 4



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LOT REPORT - WET DENSITY RATIO

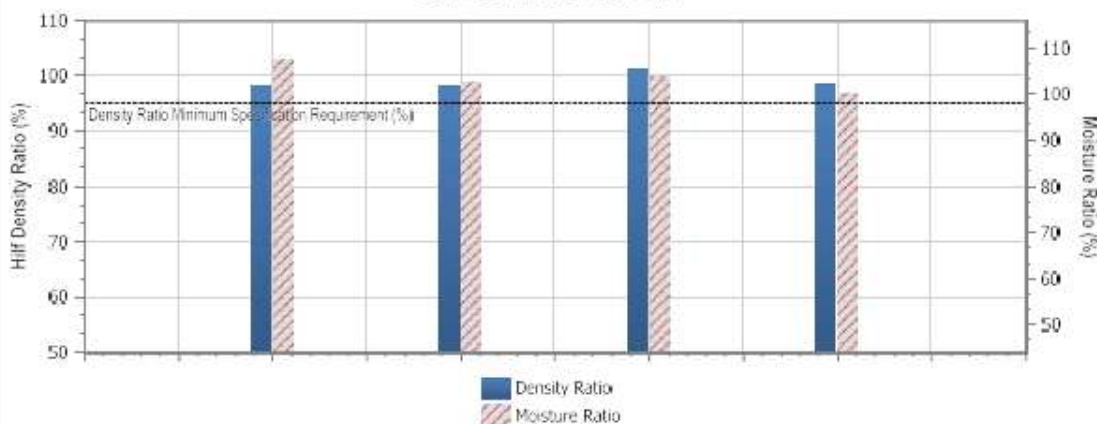
Client:	Winslow Infrastructure Pty Ltd	Report Number:	14874/R/25-24479-1
Client Address:	2 Central Blvd, Port Melbourne	Project Number:	14874/P/3155
Project:	Olivine Estate - Stage 29	Lot Number:	n/a
Location:	Various	Internal Test Request:	14874/I/25-9838
Component:	Lots 2923, 2942, 2936	Client Reference/s:	Level 1 Supervision 7/8/25
Area Description:	R.T.M	Report Date / Page:	12/08/2025 Page 2 of 2

Test Procedures:	AS1289.5.7.1, RC301.01, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Vic Roads RC316.00

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 = 4	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	100.1	107.4	103.4	3.032
HMF Density Ratio (%)	98.1	101.3	99.0	1.544

Lot Number: n/a
Mean Moisture Ratio (%): 103.4
Mean Density Ratio (%): 99.0

Remarks

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	Accreditation Number:	1986	
	Corporate Site Number:	14874	Form ID: W5ASMRRRepSum Rev 4



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Not to Scale
Dimensions in Approx. Metres

Site Location Sketch

Test site locations only
NOT TO SCALE

Client: Winslow Constructors
Job No. P/3155

Test Request No. T/

Date Tested: 07/08/2025





LOT REPORT - WET DENSITY RATIO

Client:	Winslow Infrastructure Pty Ltd	Report Number:	14874/R/25-24818-1
Client Address:	2 Central Blvd, Port Melbourne	Project Number:	14874/P/3155
Project:	Olivine Estate - Stage 29	Lot Number:	n/a
Location:	Various	Internal Test Request:	14874/T/25-9885
Component:	Lots 2923, 2942-2935	Client Reference/s:	Level 1 Supervision 8/8/25
Area Description:	Refer To Map	Report Date / Page:	14/08/2025 Page 1 of 2

Test Procedures:	A51289.5.7.1, A51289.1.1, A51289.5.8.1, A51289.2.1.1
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Sample Number	14874/5/25-70887	14874/5/25-70888	14874/5/25-70889	14874/5/25-70890
ID / Client ID	Level 1 Supervision 8/8/25	Level 1 Supervision 8/8/25	Level 1 Supervision 8/8/25	Level 1 Supervision 8/8/25
Lot Number	n/a	n/a	n/a	n/a
Date / Time Tested	8/08/2025 14:00	8/08/2025 14:00	8/08/2025 14:00	8/08/2025 14:00
Material Source	Onsite	Onsite	Onsite	Onsite
Material Type	Clay	Clay	Clay	Clay
Sampling Method	A51289.1.2.1 Cl 6.4b	A51289.1.2.1 Cl 6.4b	A51289.1.2.1 Cl 6.4b	A51289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / -	175 / 200 / -	175 / 200 / -
Standard or Modified	Standard	Standard	Standard	Standard
Layer Number	2	2	2	2
Location Number	1	2	3	4
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	9	14	12	10
Compaction Sample Number	14874/5/25-70887	14874/5/25-70888	14874/5/25-70889	14874/5/25-70890
Sample Description	Clay	Clay	Clay	Clay
Moisture Test Results:				
Field Moisture Content (%)	19.6	20.4	21.2	22.5
Adjusted / Moist. Variation (%)	0.0	0.5	0.0	0.0
Optimum Moisture Content (%)	19.5	21.0	21.0	22.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Wetter than OMC)	(Wetter than OMC)
Moisture Ratio (%)	99.5	98.0	100.5	100.5
Density Test Results:				
Field Wet Density (t/m ³)	2.14	2.15	2.12	2.11
Adj/Peak Conv Wet Density (t/m ³)	2.05	2.10	2.08	2.06
Density Ratio Required (%)	95	95	95	95
Hiif Density Ratio (%)	104.0	102.0	102.0	103.0

Remarks

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	Corporate Site Number:	14874	Form ID: W5ASMRRepSum Rev 4



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 Sunshine West VIC 3020

Laboratory: Melbourne Laboratory
 Phone: 03 9364 9301
 Fax: 03 9338 3255
 Email: Melbourne@constructionsciences.net

LOT REPORT - WET DENSITY RATIO

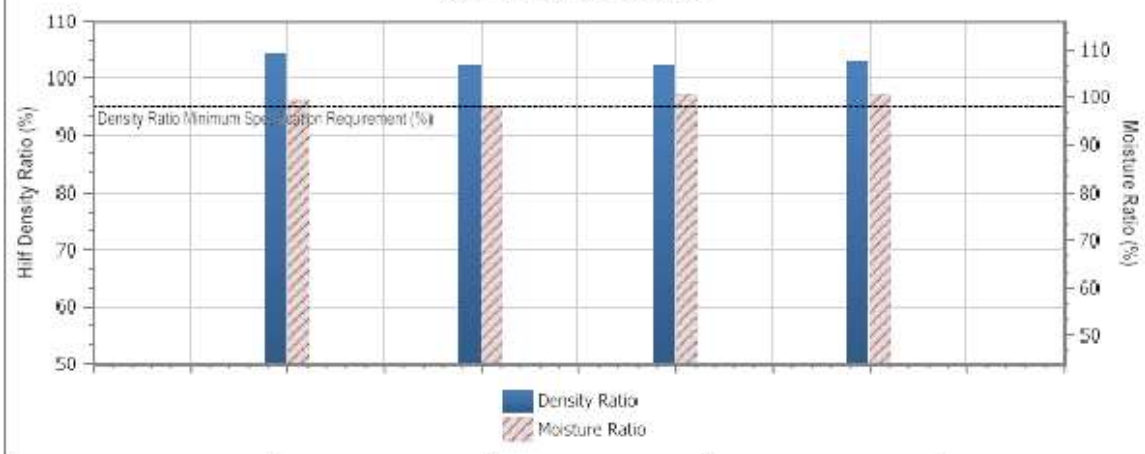
Client:	Winslow Infrastructure Pty Ltd	Report Number:	14874/R/25-24818-1
Client Address:	2 Central Blvd, Port Melbourne	Project Number:	14874/P/3155
Project:	Olivine Estate - Stage 29	Lot Number:	n/a
Location:	Various	Internal Test Request:	14874/T/25-9885
Component:	Lots 2923, 2942-2935	Client Reference/s:	Level 1 Supervision 8/8/25
Area Description:	Refer To Map	Report Date / Page:	14/08/2025 Page 2 of 2

Test Procedures:	AS1289.5.7.1, AS1289.1.1, 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 = 4	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	97.9	100.6	99.6	1.278
Hill Density Ratio (%)	102.1	104.1	102.8	0.947

Lot Number:	n/a
Mean Moisture Ratio (%):	99.6
Mean Density Ratio (%):	102.8

Remarks

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	Accreditation Number:	1986	
	Corporate Site Number:	14874	Form ID: WSASMRRepSum Rev 4



Not to Scale
Dimensions in Approx. Metres

Site Location Sketch

Test site locations only
NOT TO SCALE

Client: Winslow Constructors
Job No. P/3155

Test Request No. T/

Date Tested: 08/08/2025

25-9685







LOT REPORT - WET DENSITY RATIO

Client:	Winslow Infrastructure Pty Ltd	Report Number:	14874/R/25-25061-1
Client Address:	2 Central Blvd, Port Melbourne	Project Number:	14874/P/3155
Project:	Olivine Estate - Stage 29	Lot Number:	n/s
Location:	Various	Internal Test Request:	14874/T/25-10063
Component:	Lots 2927 - 2932	Client Reference/s:	Level 1 Supervision 11/8/25
Area Description:	Refer To Map	Report Date / Page:	15/08/2025 Page 1 of 3

Test Procedures:	AS1289.5.7.1, AS1289.1.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	14874/S/25-72179	14874/S/25-72180	14874/S/25-72181	14874/S/25-72182
ID / Client ID	Level 1 Supervision 11/8/25	Level 1 Supervision 11/8/25	Level 1 Supervision 11/8/25	Level 1 Supervision 11/8/25
Lot Number	n/s	n/s	n/s	n/s
Date / Time Tested	11/08/2025 11:40	11/08/2025 11:40	11/08/2025 11:40	11/08/2025 11:40
Material Source	Onsite	Onsite	Onsite	Onsite
Material Type	Clay	Clay	Clay	Clay
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 / -	175 / 200 / -	175 / 200 / -
Standard or Modified	Standard	Standard	Standard	Standard
Layer Number	1	1	1	1
Location Number	1	2	3	4
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	9	12	4	6
Compaction Sample Number	14874/S/25-72179	14874/S/25-72180	14874/S/25-72181	14874/S/25-72182
Sample Description	Clay	Clay	Clay	Clay
Moisture Test Results:				
Field Moisture Content (%)	16.6	19.1	20.8	22.9
Adjusted / Moist. Variation (%)	2.0	2.0	2.0	2.0
Optimum Moisture Content (%)	18.5	21.0	22.5	25.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	89.5	90.5	92.0	91.5
Density Test Results:				
Field Wet Density (t/m ³)	1.92	1.92	1.97	1.95
Adj/Peak Conv Wet Density (t/m ³)	2.00	1.97	1.95	1.96
Density Ratio Required (%)	95	95	95	95
Hiif Density Ratio (%)	96.0	97.5	101.0	99.0

Remarks

	Accredited for compliance with ISO/IEC 17025 – Testing		
	Accreditation Number:	1986	
	Corporate Site Number:	14874	Form ID: W5ASMRRepSum Rev 4



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Laboratory: Melbourne Laboratory
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 Email: Melbourne@constructionssciences.net

LOT REPORT - WET DENSITY RATIO

Client: Winslow Infrastructure Pty Ltd	Report Number: 14874/R/25-25081-1
Client Address: 2 Central Blvd, Port Melbourne	Project Number: 14874/P/3155
Project: Olivine Estate - Stage 29	Lot Number: n/s
Location: Various	Internal Test Request: 14874/T/25-10063
Component: Lots 2927 - 2932	Client Reference/s: Level 1 Supervision 11/8/25
Area Description: Refer To Map	Report Date / Page: 15/08/2025 Page 2 of 3

Test Procedures:	A51289.5.7.1, A51289.1.1, A51289.5.8.1, A51289.2.1.1
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Sample Number	14874/S/25-72183			
ID / Client ID	Level 1 Supervision 11/8/25			
Lot Number	n/s			
Date / Time Tested	11/08/2025 11:40			
Material Source	Onsite			
Material Type	Clay			
Sampling Method	A51289.1.2.1 Cl 6.4b			
Depths: Test / Nom / Actual (mm)	175 / 200 / -			
Standard or Modified	Standard			
Layer Number	1			
Location Number	5			
Test Fraction (mm)	< 19.0 mm			
Sample Oversize (%)	6			
Compaction Sample Number	14874/S/25-72183			
Sample Description	Clay			
Moisture Test Results:				
Field Moisture Content (%)	19.3			
Adjusted / Moist. Variation (%)	2.0			
Optimum Moisture Content (%)	21.0			
Moisture Variation from OMC	(Drier than OMC)			
Moisture Ratio (%)	91.0			
Density Test Results:				
Field Wet Density (t/m ³)	1.88			
Adj/Peak Conv Wet Density (t/m ³)	1.92			
Density Ratio Required (%)	95			
Hilf Density Ratio (%)	97.5			

Remarks

	Accredited for compliance with ISO/IEC 17025 – Testing	
Accreditation Number: 1986 Corporate Site Number: 14874		Approved Signatory: Nawin Dahal Form ID: WSASMRRepSum Rev 4



LOT REPORT - WET DENSITY RATIO

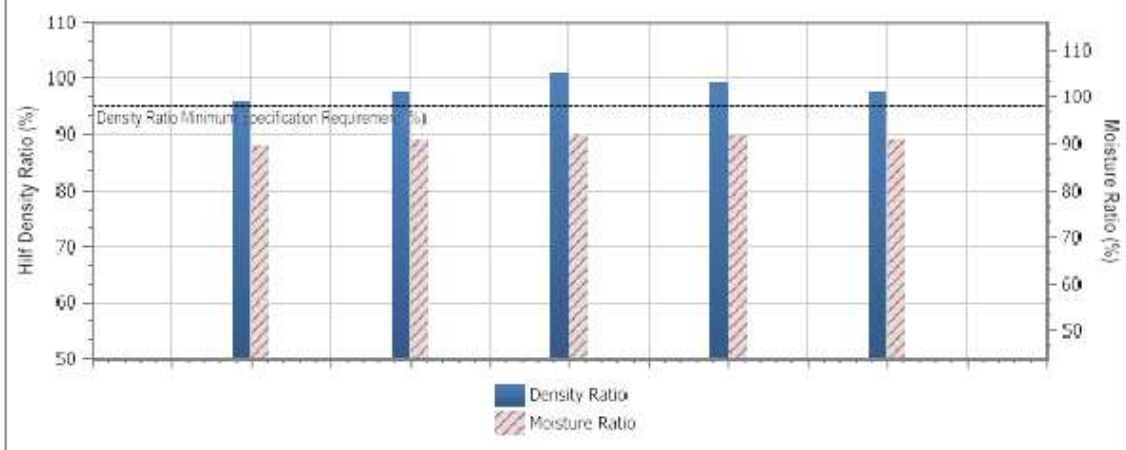
Client:	Winslow Infrastructure Pty Ltd	Report Number:	14874/R/25-25061-1
Client Address:	2 Central Blvd, Port Melbourne	Project Number:	14874/P/3155
Project:	Olivine Estate - Stage 29	Lot Number:	n/s
Location:	Various	Internal Test Request:	14874/T/25-10063
Component:	Lots 2927 - 2932	Client Reference/s:	Level 1 Supervision 11/8/25
Area Description:	Refer To Map	Report Date / Page:	15/08/2025 Page 3 of 3

Test Procedures:	A51289.5.7.1, A51289.1.1, A51289.5.8.1, A51289.2.1.1
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 = 5	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	89.5	91.8	90.9	0.929
Hill Density Ratio (%)	95.8	101.0	98.2	1.985

Lot Number:	n/s
Mean Moisture Ratio (%):	90.9
Mean Density Ratio (%):	98.2

Remarks

	Accredited for compliance with ISO/IEC 17025 – Testing		
	Accreditation Number:	1986	
	Corporate Site Number:	14874	Form ID: W5ASMRRepSum Rev 4



**Construction
Sciences**

Not to Scale
Dimensions in Approx. Metres

Site Location Sketch

Test site locations only
NOT TO SCALE

Client: Winslow Constructors

Job No. P/3155

Test Request No. TI 25 - 10063

Date Tested: 11/08/2025





LOT REPORT - WET DENSITY RATIO

Client: Winslow Infrastructure Pty Ltd	Report Number: 14874/R/25-25064-1
Client Address: 2 Central Blvd, Port Melbourne	Project Number: 14874/P/3155
Project: Olivine Estate - Stage 29	Lot Number: -
Location: Various	Internal Test Request: 14874/T/25-10074
Component: Lots 2927 - 2932	Client Reference/s: level 1 Supervision 12/8/25
Area Description: Refer To Map	Report Date / Page: 15/08/2025 Page 1 of 2

Test Procedures:	A51289.5.7.1, RC301.01, A51289.5.8.1, A51289.2.1.1
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Sample Number	14874/5/25-72234	14874/5/25-72235	14874/5/25-72236
ID / Client ID	level 1 Supervision 12/8/25	level 1 Supervision 12/8/25	level 1 Supervision 12/8/25
Lot Number	-	-	-
Date / Time Tested	12/08/2025 11:00	12/08/2025 11:00	12/08/2025 11:00
Material Source	Onsite	Onsite	Onsite
Material Type	Clay	Clay	Clay
Sampling Method	A51289.1.2.1 Cl 6.4b	A51289.1.2.1 Cl 6.4b	A51289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / -	175 / 200 / -
Standard or Modified	Standard	Standard	Standard
Layer Number	2	2	2
Location Number	1	2	3
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	9	8	0
Compaction Sample Number	14874/5/25-72234	14874/5/25-72235	14874/5/25-72236
Sample Description	Clay	Clay	Clay
Moisture Test Results:			
Field Moisture Content (%)	20.0	19.4	23.7
Adjusted / Moist. Variation (%)	2.0	2.0	2.0
Optimum Moisture Content (%)	22.0	21.5	26.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	91.0	90.5	91.5
Density Test Results:			
Field Wet Density (t/m ³)	1.93	1.91	1.93
Adj/Peak Conv Wet Density (t/m ³)	1.96	1.96	1.94
Density Ratio Required (%)	95	95	95
Hilf Density Ratio (%)	98.5	97.5	99.5

Remarks

	Accredited for compliance with ISO/IEC 17025 – Testing	
Accreditation Number: 1986 Corporate Site Number: 14874		Approved Signatory: Nawin Dahal Form ID: W5ASMRRepSum Rev 4



Not to Scale
Dimensions in Approx. Metres

Site Location Sketch

Client: Winslow Constructors
Job No. P/3155
Test Request No. T/
Date Tested: 12/08/2025

Test site locations only
NOT TO SCALE





Appendix C

Site Visit Records and Photos



Figure 3. Site Photo – Olivine Estate Stage 29



Figure 4. Site Photo – Olivine Estate Stage 29



Figure 5. Site Photo – Olivine Estate Stage 29



Figure 6. Site Photo – Olivine Estate Stage 29



Figure 7. Site Photo – Olivine Estate Stage 29



Figure 8. Site Photo – Olivine Estate Stage 29

Located across Australia and New Zealand

QLD

Airlie
Beenleigh
Brisbane (Acacia Ridge)
Brisbane (Beenleigh)
Brisbane (Brendale)
Brisbane (Petrie)
Cairns
Emerald
Gladstone
Gold Coast
Mackay
Moranbah
Rockhampton
Petrie
Sunshine Coast
Toowoomba
Townsville

NSW

Ballina
Coffs Harbour
Grafton
Lynwood
Newcastle
Sydney (Glendenning)
Sydney (Seven Hills)
Sydney (St Peters)
Taree
Wollongong

VIC

Ararat
Bendigo
Echuca
Melbourne (Chadstone)
Melbourne (Keysborough)
Melbourne (Pakenham)
Melbourne (Oaklands Junction)
Melbourne (Sunshine West)
Traralgon

WA

Bunbury
Kalgoorlie
Newman
Perth
Port Hedland

SA

Adelaide
Port Augusta

NT

Darwin

ACT

Canberra

NZ

Wellington