



**CIVIL GEOTECHNICAL SERVICES**  
**ABN 26 474 013 724**  
**PO Box 678 Croydon Vic 3136**  
**Telephone: 9723 0744 Facsimile: 9723 0799**

5<sup>th</sup> May 2021

Our Reference: 21140:NB947

Winslow Constructors Pty Ltd  
50 Barry Road  
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

**RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING  
ALAMORA – STAGE 2 (TARNEIT)**

Please find attached our Report No 21140/R001 which relates to the field density testing that was conducted within the filled allotments at the above subdivision. The level 1 inspections and associated field density was performed in March 2021.

The inspections and testing of the earthworks was undertaken in general accordance with the Level 1 requirements of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments.

The site inspection and testing was performed by experienced geotechnicians from this office. Any areas that were deemed unsatisfactory were reworked and retested under their supervision. The testing was performed to the relevant Australian Standards and the accompanying test reports carry NATA endorsement. The attached compaction results, which were located randomly throughout the fill profile, are considered to be representative of the bulk fill materials that were placed across the reported allotments by Winslow Constructors during the aforementioned period. The approximate locations of the field density tests can be seen on the attached plan (Figure 1).

We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

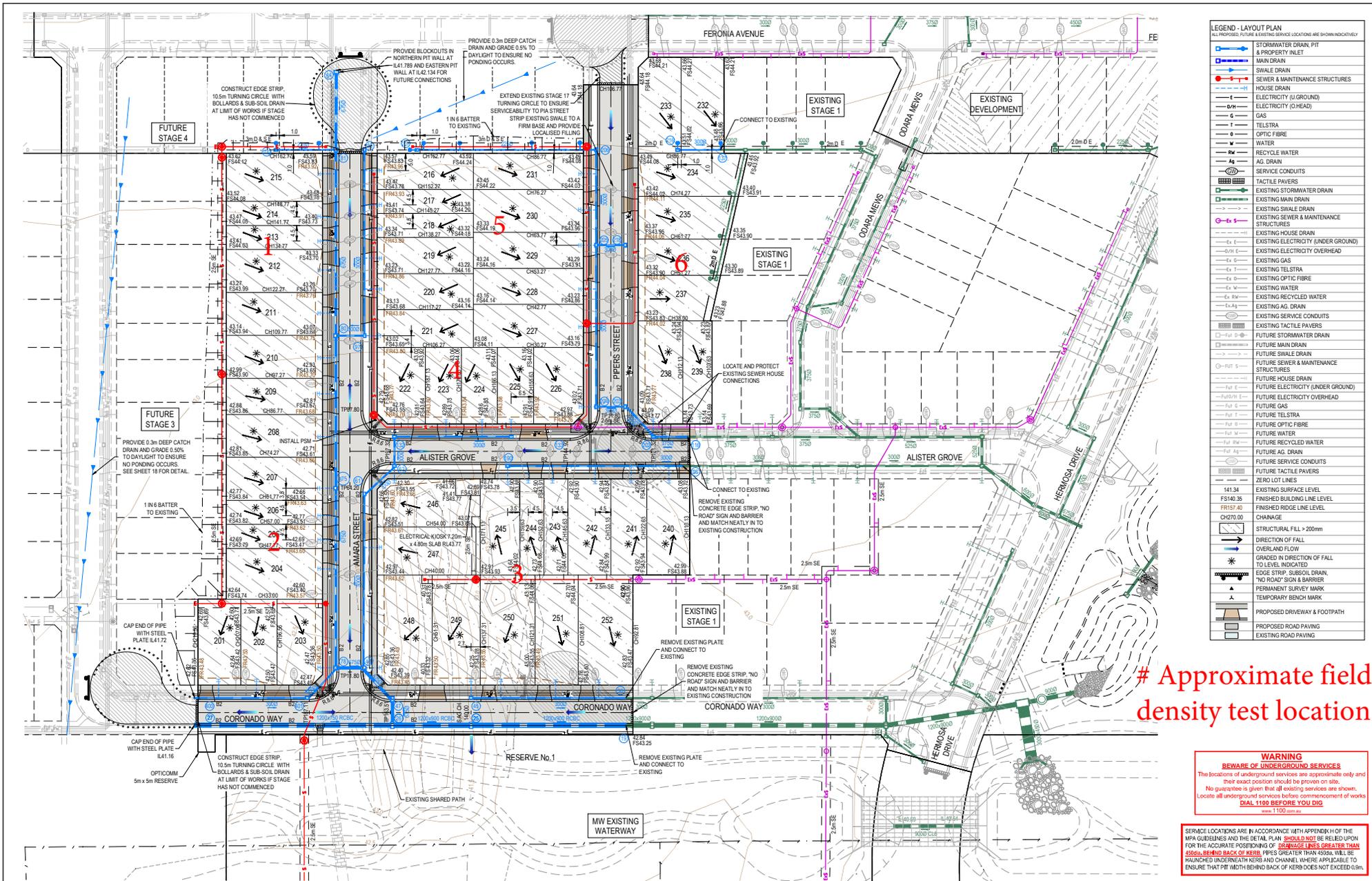
Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

A handwritten signature in blue ink, appearing to read 'Nick Brock', is written over a faint circular stamp.

Nick Brock

# FIGURE 1



# Approximate field density test location

**WARNING**  
**BEWARE OF UNDERGROUND SERVICES**  
 The location of underground services are approximate only and their exact position should be proven on site.  
 No guarantee is given that all existing services are shown.  
 Locate all underground services before commencing work  
**DIAL 1100 BEFORE YOU DIG**  
[www.1100.com.au](http://www.1100.com.au)

SERVICE LOCATIONS ARE IN ACCORDANCE WITH APPENDIX H OF THE MPA GUIDELINES AND THE BECOMING PLAN SHOULD NOT BE RELIED UPON FOR THE ACCURATE POSITIONING OF DRAINAGE LINES GREATER THAN 4500mm BEHIND BACK OF KERB. PIPES GREATER THAN 4500mm WILL BE HANGING UNDERGATH KERB AND CHANNEL, WHERE APPLICABLE TO ENSURE THAT PIT WIDTH BEHIND BACK OF KERB DOES NOT EXCEED 0.9m.

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL	DESCRIPTION
A	12.06.20	ISSUED TO COUNCIL FOR APPROVAL	MS/M	CS	
B	15.11.20	DEVELOPMENT NAME, STAGE NO, LOT LAYOUT & NOS, SEWER LAYOUT	MS/M	CS	
C	27.11.20	PITS 100 & 207 AMENDED, PIT BA ADDED	MS/M	CS	
D	16.12.20	FRAM CROSSING STAGE 4 STAGE BOY AMENDED FOR OPTICOMM RES.	MS/M	CS	
E	19.02.21	ISSUED FOR CONSTRUCTION	MS/M	CS	

TITLE	NAME
DRAFTER	D. Rapson
DESIGNER	A. Famli
CHECKED	C. Sexton
AUTHORISED	C. Sexton
REFERENCE No. 1	
REFERENCE No. 2	

Member of the Surlana Jurong Group  
 Tower 4, Level 20, 727 Collins Street  
 Melbourne, VIC 3008  
 Ph 03 9514 1500



Alamora Estate, Sayers Road, Tarneit - Stage 2  
 Wyndham City Council  
 Road and Drainage  
 Layout Plan

MELBURN REF: 234 D5  
 PROJECT DRAWING NO: 2070E-A02-02  
 SHEET NO: 02 of 19  
 REVISION: 0



# COMPACTION ASSESSMENT

Job No 21140  
 Report No 21140/R001  
 Date Issued 26/03/2021

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	ALAMORA - STAGE 2	Date tested	15/03/21
Location	TARNEIT	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 12:21
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	1	2	3	4	5	6
Location	REFER TO FIGURE 1					
Approximate depth below FSL						
Measurement depth	mm	175	175	175	175	175
Field wet density	t/m <sup>3</sup>	1.72	1.72	1.73	1.77	1.77
Field moisture content	%	21.2	21.0	21.2	23.2	26.7

Test procedure AS 1289.5.7.1

Test No	1	2	3	4	5	6
Compactive effort	Standard					
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0
Peak Converted Wet Density	t/m <sup>3</sup>	1.80	1.81	1.77	1.81	1.77
Adjusted Peak Converted Wet Density	t/m <sup>3</sup>	-	-	-	-	-
Optimum Moisture Content	%	21.5	22.5	23.0	25.5	29.0

Moisture Variation From Optimum Moisture Content	0.5% dry	1.5% dry	2.0% dry	2.0% dry	2.5% dry	2.0% dry
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Density Ratio ( R <sub>HD</sub> )	%	95.5	95.0	98.0	98.0	100.0	97.5
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Material description

No 1 - 6 Clay Fill
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AVRLOT HILF V1.10 MAR 13



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. Accredited for compliance with ISO/IEC 17025 - Testing

Accreditation No 9909

Approved Signatory : Justin Fry