



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

14<sup>th</sup> October 2024

Our Reference: 24553:NB2074

Winslow Constructors Pty Ltd  
50 Barry Road  
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

**RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING  
SMITHS LANE – STAGE 28 MD LOTS (CLYDE NORTH)**

Please find attached our Report No's 24553/R001 to 24553/R002 which relate to the field density testing that was conducted within the filled allotments at the above subdivision. The level 1 inspections and associated field density testing commenced in May 2024 and was completed in June 2024.

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



FOR CONSTRUCTION

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REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
D	STAGE 28 REPLACED WITH REGULAR LOTS	21.05.24	LM	S.Y.					
E	PIT 28-2 & 28-3 ACCESS 28P AMENDED	15.03.24	BP	S.Y.					
C	PAPER ROAD REMAND	01.03.24	B.P.	S.Y.					
B	LINE 28-07 TO 28-08 DIAMETER CHANGED	19.01.24	B.P.	S.Y.					
A	ISSUED FOR CONSTRUCTION	09.01.24	B.P.	S.Y.					

**SMITHS LANE**  
CLOSE NORTH

Scale 1:500 @ A1

SCALE 1:500 AT A1 SIZE

Designed: B. PAPPALARDO 19.10.2020  
Date: M.F. LAURIGUE  
Drawn: L.M. MURRAY  
Date: 24.11.2023  
Checked: S. YOUNG  
Date: 27.11.2023  
Approved: S. YOUNG  
Date: 27.11.2023  
Reg. No.: PE000909  
Date: 27.11.2023  
Title: LAYOUT PLAN (SHEET 1 OF 2)  
PS Number: P93190148

**BW Beveridge Williams**  
Development & Infrastructure Consultants  
1 Glenferrie Road  
Malvern VIC 3144  
ph: 03 924 8888  
www.beveridgewilliams.com.au

Project Details: SMITHS LANE STAGE 28 CITY OF CASEY  
Drawing Title: LAYOUT PLAN (SHEET 1 OF 2)

Sheet 05 of 39  
Scale: 1:500 @ A1  
Project Ref: 1101438 28 010  
Page No: 28  
Drawing No: 010  
Rev: E

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# COMPACTION ASSESSMENT

Job No 24553  
 Report No 24553/R001  
 Date Issued 24/05/24

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	CV
Project	SMITHS LANE - STAGE 28 MD LOTS	Date tested	20/05/24
Location	CLYDE NORTH	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 12:07
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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	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	
Field wet density	t/m <sup>3</sup>	2.06	1.93	1.99	1.95	2.07	1.89
Field moisture content	%	24.2	22.6	25.1	25.1	23.1	24.8

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	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m <sup>3</sup>	2.11	1.95	2.05	2.01	2.10	1.96
Adjusted Peak Converted Wet Density	t/m <sup>3</sup>	-	-	-	-	-	-
Optimum Moisture Content	%	26.0	23.5	26.0	26.0	25.0	26.0

Moisture Variation From Optimum Moisture Content	1.5% dry	0.5% dry	0.5% dry	1.0% dry	1.5% dry	1.0% dry
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density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer

Density Ratio ( R <sub>HD</sub> )	%	97.5	99.0	97.0	97.0	98.5	96.5
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Material description

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



NATA Accredited Laboratory No 9909  
 Accredited for compliance with  
 ISO/IEC 17025 - Testing

Approved Signatory : Justin Fry



# COMPACTION ASSESSMENT

Job No 24553  
 Report No 24553/R002  
 Date Issued 14/06/24

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	CV
Project	SMITHS LANE - STAGE 28 MD LOTS	Date tested	06/06/24
Location	CLYDE NORTH	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 09:12
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### Test procedure AS 1289.2.1.1 & 5.8.1

Test No	7	8	9	-	-	-
Location	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
Approximate depth below FSL						
Measurement depth	mm	175	175	175	-	-
Field wet density	t/m <sup>3</sup>	1.89	2.11	2.08	-	-
Field moisture content	%	26.0	23.0	24.6	-	-

### Test procedure AS 1289.5.7.1

Test No	7	8	9	-	-	-
Compactive effort	Standard					
Oversize rock retained on sieve	mm	19.0	19.0	19.0	-	-
Percent of oversize material	wet	0	0	0	-	-
Peak Converted Wet Density	t/m <sup>3</sup>	1.97	2.14	2.10	-	-
Adjusted Peak Converted Wet Density	t/m <sup>3</sup>	-	-	-	-	-
Optimum Moisture Content	%	27.5	24.5	26.0	-	-

Moisture Variation From Optimum Moisture Content	1.5% dry	1.5% dry	1.0% dry	-	-	-
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density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer

Density Ratio ( R <sub>HD</sub> )	%	96.0	98.5	99.0	-	-
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### Material description

No 7 - 9 Clay Fill
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AVRLOT HILF V1.10 MAR 13



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 Accredited for compliance with  
 ISO/IEC 17025 - Testing

Approved Signatory : Justin Fry