



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

4<sup>th</sup> October 2021

Our Reference: 21481:NB1080

Winslow Constructors Pty Ltd  
50 Barry Road  
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

**RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING  
EYNESBURY – STAGE 6F (EYNESBURY)**

Please find attached our Report No's 21481/R001 to 21481/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 was performed in July 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).

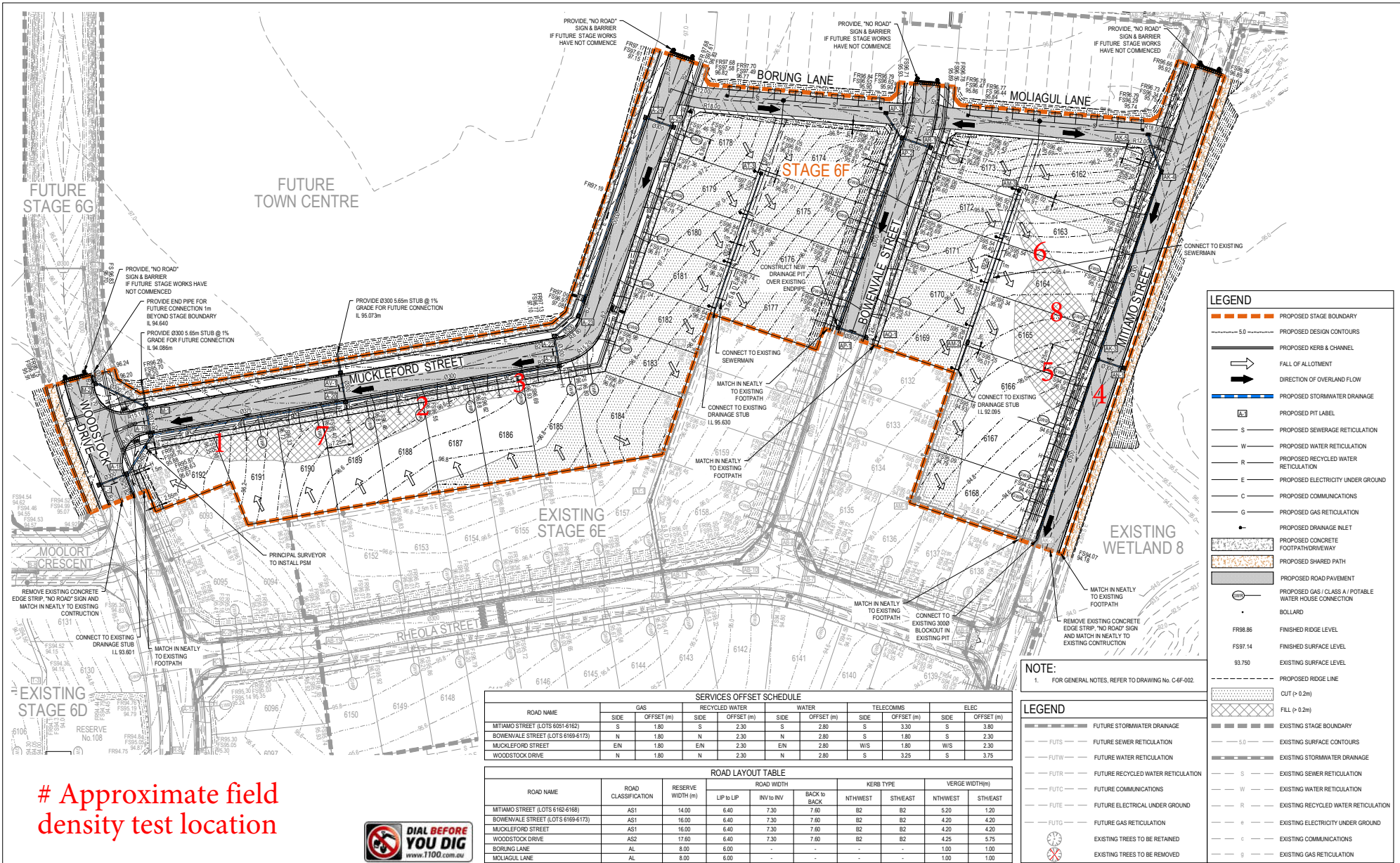
Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

A handwritten signature in blue ink, appearing to be 'Nick Brock', written over a light blue circular stamp.

Nick Brock

# FIGURE 1



# Approximate field density test location

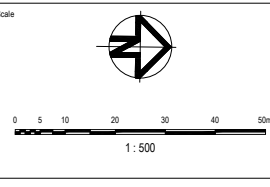


SERVICES OFFSET SCHEDULE										
ROAD NAME	GAS		RECYCLED WATER		WATER		TELECOMMS		ELEC	
	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)
MITIAMA STREET (LOTS 6051-6162)	S	1.80	S	2.30	S	2.80	S	3.30	S	3.80
BOWENVALE STREET (LOTS 6169-6173)	N	1.80	N	2.30	N	2.80	S	1.80	S	2.30
MUCKLEFORD STREET	EN	1.80	EN	2.30	EN	2.80	WS	1.80	WS	2.30
WOODSTOCK DRIVE	N	1.80	N	2.30	N	2.80	S	3.25	S	3.75

ROAD LAYOUT TABLE											
ROAD NAME	ROAD CLASSIFICATION	RESERVE WIDTH (m)	ROAD WIDTH			KERB TYPE			VERGE WIDTH(m)		
			LIP to LIP	INV to INV	BACK to BACK	NTHWEST	STHEAST	NTHWEST	STHEAST		
MITIAMA STREET (LOTS 6162-6168)	AS1	14.00	6.40	7.30	7.60	B2	B2	B2	5.20	1.20	
BOWENVALE STREET (LOTS 6169-6173)	AS1	16.00	6.40	7.30	7.60	B2	B2	B2	4.20	4.20	
MUCKLEFORD STREET	AS1	16.00	6.40	7.30	7.60	B2	B2	B2	4.20	4.20	
WOODSTOCK DRIVE	AS2	17.60	6.40	7.30	7.60	B2	B2	B2	4.25	5.75	
BORUNG LANE	AL	8.00	6.00	-	-	-	-	-	1.00	1.00	
MOLIAGUL LANE	AL	8.00	6.00	-	-	-	-	-	1.00	1.00	

Issue	Description	By	Chk	PM	Date
01	ISSUED FOR CONSTRUCTION	WB	ZS	JM	31.05.21
02	UPDATES TO ADDRESS COUNCIL COMMENTS	WB	ZS	JM	13.04.21
01	ISSUED FOR APPROVAL	WB	ZS	JM	11.03.21



Planner  
**RobertsDay**  
*planning.design.place*

Client

Status: **FOR CONSTRUCTION**

Checker: **Z.STROGOSZ**

Scales: 1:500

Original Size: **A1**

Height/Datum: **AHD**

Grid: **MGA**

Original Issue Signatures: **Diana W.BUMGAT**, **Desmond K.ANGELES**

Project Manager: **J.MUNRO**

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Project: **EYNSBURY TOWNSHIP STAGE 6F**

Title: **ROADWORKS AND DRAINAGE LAYOUT PLAN**

Arcadis Australia Pacific Pty Limited  
 Level 32, 140 William Street  
 Melbourne VIC 3000  
 ABN 76 104 465 289  
 Tel No: +61 3 8623 4000  
 www.arcadis.com

Drawing No: **C-6F-220** | Project No: **10029435** | Issue: **A**



# COMPACTION ASSESSMENT

Job No 21481  
 Report No 21481/R001  
 Date Issued 22/09/2021

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	EYNESBURY - STAGE 6F	Date tested	22/07/21
Location	EYNESBURY	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 14:32
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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	175
Field wet density	t/m <sup>3</sup>	1.97	1.89	1.82	1.94	1.81	1.90
Field moisture content	%	28.5	27.3	27.4	22.6	20.8	21.5

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>	2.04	1.95	1.88	1.97	1.88	1.97
Adjusted Peak Converted Wet Density	t/m <sup>3</sup>	-	-	-	-	-	-
Optimum Moisture Content	%	31.0	30.0	30.5	25.5	23.0	24.5

Moisture Variation From Optimum Moisture Content	2.0% dry	2.5% dry	2.5% dry	2.5% dry	2.0% dry	2.5% dry
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Density Ratio ( R <sub>HD</sub> )	%	96.5	97.0	97.0	98.5	96.5	96.0
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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 21481  
 Report No 21481/R002  
 Date Issued 28/08/2021

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	WS
Project	EYNESBURY - STAGE 6F	Date tested	26/07/21
Location	EYNESBURY	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 07:45
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	7	8	-	-	-	-
Location	REFER TO FIGURE 1	REFER TO FIGURE 1				
Approximate depth below FSL						
Measurement depth	mm	175	175	-	-	-
Field wet density	t/m <sup>3</sup>	1.83	1.85	-	-	-
Field moisture content	%	23.8	23.2	-	-	-

Test procedure AS 1289.5.7.1

Test No	7	8	-	-	-	-
Compactive effort	Standard					
Oversize rock retained on sieve	mm	19.0	19.0	-	-	-
Percent of oversize material	wet	0	0	-	-	-
Peak Converted Wet Density	t/m <sup>3</sup>	1.84	1.87	-	-	-
Adjusted Peak Converted Wet Density	t/m <sup>3</sup>	-	-	-	-	-
Optimum Moisture Content	%	26.5	25.5	-	-	-

Moisture Variation From Optimum Moisture Content	2.5% dry	2.5% dry	-	-	-	-
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Density Ratio ( R <sub>HD</sub> )	%	99.5	99.5	-	-	-
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Material description

No 7 - 8 Clay Fill
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AVRLOT HILF V1.10 MAR 13



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 ISO/IEC 17025 - Testing

Approved Signatory : Justin Fry