



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

5th October 2022

Our Reference: 22640:NB1354

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

**RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
ALAMORA – STAGE 10 (TARNEIT)**

Please find attached our Report No's 22640/R001 and 22640/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 September 2022.

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).

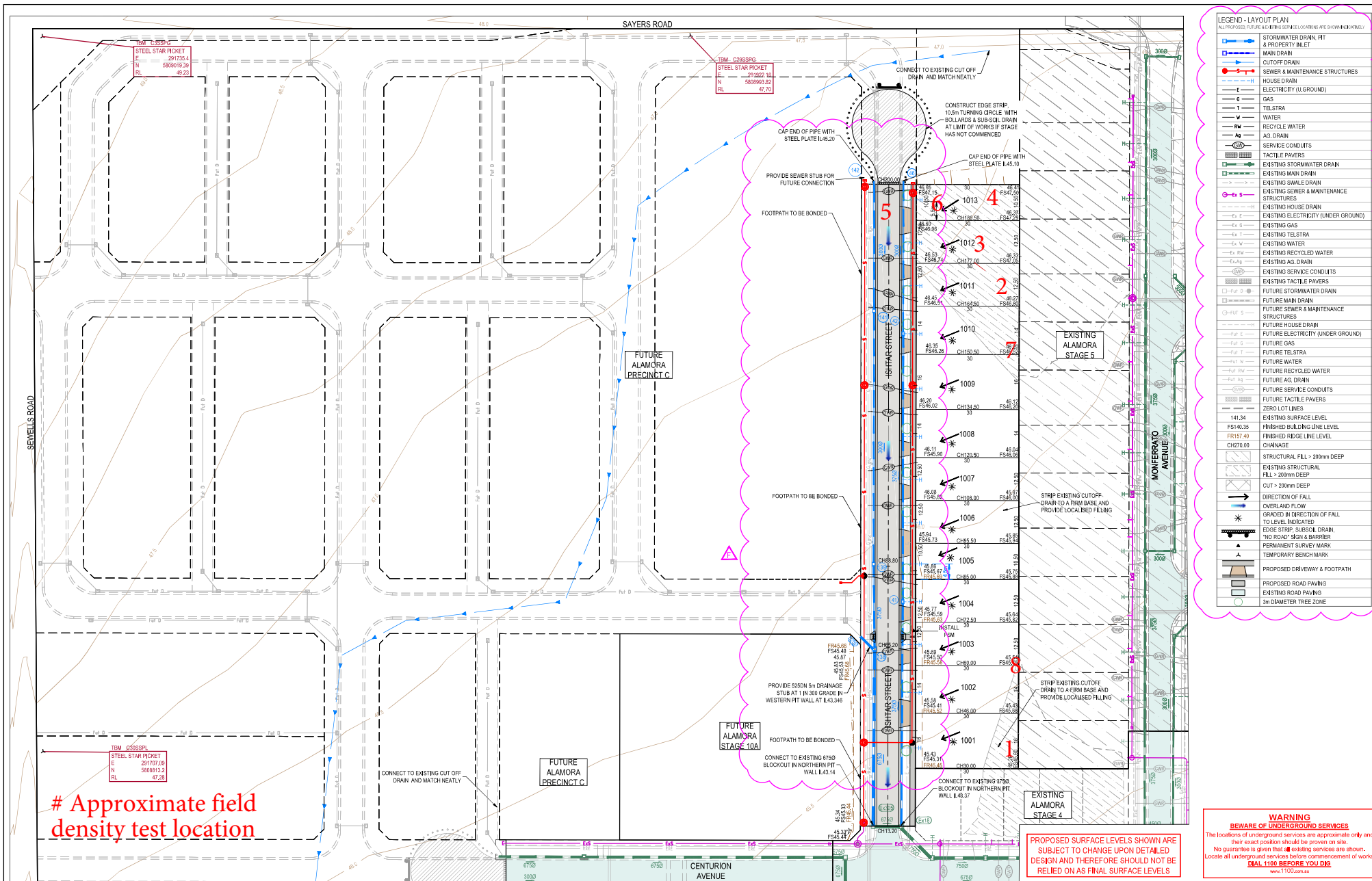
Please contact the undersigned if you require any additional information.

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

WARNING
BEWARE OF UNDERGROUND SERVICES
 The locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that existing services are shown. Locate all underground services before commencement of works **CALL 1100 BEFORE YOU DIG**
 www.1100.com.au

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER	PLAN OF SUB. NO.
A	25.01.22	ISSUED FOR INFORMATION ONLY	T.HO	HEHSAH	C.SEXTON	SANTONOPOLLO	PS841640V57
B	21.02.22	ISSUED TO COUNCIL FOR APPROVAL					
C	12.05.22	DRAINAGE ALIGNMENT AMENDED FITS 135-139	ALMONTGOMERY	ALMONTGOMERY	M.BOYS	SANTONOPOLLO	PERMIT REF. NO.
D	17.05.22	DRAINAGE ALIGNMENT AMENDED FITS 138-139	ALMONTGOMERY	ALMONTGOMERY	C.SEXTON	SANTONOPOLLO	WYP10107_17.02
E	25.05.22	FOOTPATH WEST OF ISHAR STREET AMENDED	ALMONTGOMERY	ALMONTGOMERY	C.SEXTON	SANTONOPOLLO	
F	05.09.22	UPDATED SEWER DESIGN	M'NGUYEN	M'NGUYEN	C.SEXTON	SANTONOPOLLO	



COMPACTION ASSESSMENT

Job No 22640
 Report No 22640/R001
 Date Issued 29/09/2022

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	WS
Project	ALAMORA - STAGE 10	Date tested	15/09/22
Location	TARNEIT	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time:	08:30
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No		1	2	3	4	5	-
Location		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 ³	1.84	1.84	1.79	1.84	1.90	-
Field moisture content	%	29.6	27.3	27.7	27.3	29.8	-

Test procedure AS 1289.5.7.1

Test No		1	2	3	4	5	-
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 ³	1.87	1.86	1.83	1.93	1.93	-
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-	-
Optimum Moisture Content	%	30.5	30.0	30.0	29.0	32.0	-

Moisture Variation From Optimum Moisture Content		1.0% dry	2.5% dry	2.5% dry	1.5% dry	2.0% 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 _{HD})	%	98.0	99.0	98.0	95.0	98.5	-
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Material description

No 1 - 5 Clay Fill

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 22640
 Report No 22640/R002
 Date Issued 05/10/2022

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	ALAMORA - STAGE 10	Date tested	30/09/22
Location	TARNEIT	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 10:00
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	6	7	8	-	-	-
Location	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
Approximate depth below FSL						
Measurement depth <i>mm</i>	175	175	175	-	-	-
Field wet density <i>t/m³</i>	2.05	2.02	1.99	-	-	-
Field moisture content <i>%</i>	23.0	24.6	24.1	-	-	-

Test procedure AS 1289.5.7.1

Test No	6	7	8	-	-	-
Compactive effort	Standard					
Oversize rock retained on sieve <i>mm</i>	19.0	19.0	19.0	-	-	-
Percent of oversize material <i>wet</i>	0	0	0	-	-	-
Peak Converted Wet Density <i>t/m³</i>	2.12	2.06	2.08	-	-	-
Adjusted Peak Converted Wet Density <i>t/m³</i>	-	-	-	-	-	-
Optimum Moisture Content <i>%</i>	25.0	26.5	25.5	-	-	-

Moisture Variation From Optimum Moisture Content	2.0% dry	2.0% dry	1.5% 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_{HD})	%	97.0	98.0	96.0	-	-
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Material description

No 6 - 8 Clay Fill

AVRLOT HILF V1.10 MAR 13



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

Approved Signatory : Justin Fry