

CIVIL GEOTECHNICAL SERVICES ABN 26 474 013 724

PO Box 678 Croydon Vic 3136 Telephone: 9723 0744 Facsimile: 9723 0799

11th May 2022

Our Reference: 21406:NB1241

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING RIVERDALE – STAGE 22 (TARNEIT)

Please find attached our Report No 21406/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 testing was performed in May 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).

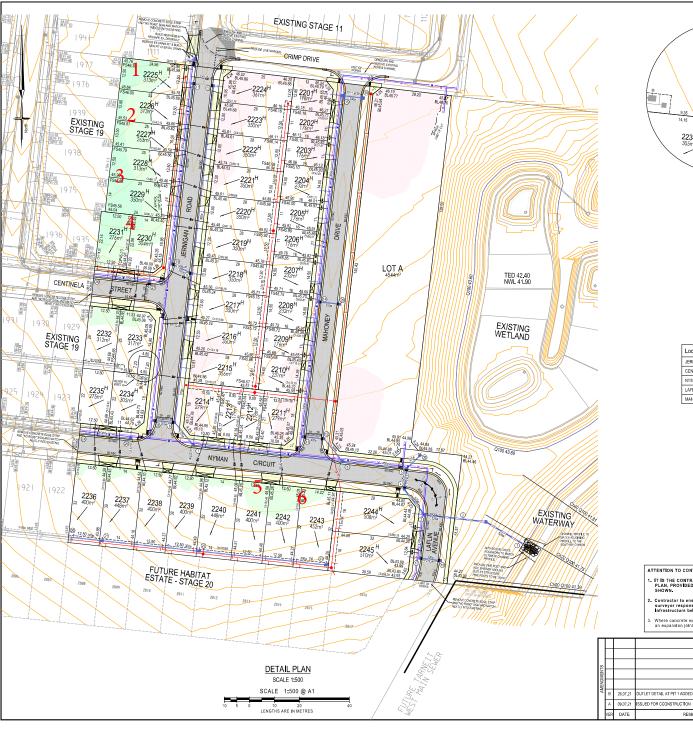
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

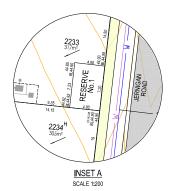
Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1







LOCALITY PLAN SCALE 1:20000

SHEET INDEX

SHT No.	VER	DESCRIPTION
1	В	DETAIL PLAN, SERVICES SCHEDULE & LOCALITY PLAN
2	A	NOTES, PAVEMENT DETAILS & TYPICAL CROSS SECTIONS
3	A	INTERSECTION DETAILS No.1
4	A	INTERSECTION DETAILS No.2
5	A	INTERSECTION DETAILS No.3
6	Α	JERNIGAN ROAD LONGITUDINAL SECTION
7	A	JERNIGAN ROAD CROSS SECTION
8	Α	MAHONEY DRIVE LONGITUDINAL SECTION
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10	Α	CENTINELA STREET LONGITUDINAL & CROSS SECTION
11	A	NYMAN CIRCUIT / LAFLIN AVENUE LONGITUDINAL SECTION
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15	В	DRAINAGE LONGITUDINAL SECTION No.3 & PIT SCHEDULE
40	0	CIONAGE 8 I INCHARDAING AND MAI OPERA OUTLIET DETAIL

SERVICES OFFSETS AND LOCATIONS

Location	Gas	Water		Communications		Electricity		вок	Road	Joint	Street
Location	Ous	NDW	DW	Cables	Plts	Cables	Poles	DOIL	Width	Trenching	Classification
JERNÍGAN ROAD	2.15 W	2.65 W	3.15 W	1.90 E	1.78 E/W	2.90 E	1.00 BOK	4.10 E 4.30 W	16.00	G&W, FTTH&E	ACCESS PLACE
CENTINELA STREET	2.20 N	2.70 N	3.20 N	1,85 S	1.78 N/S	2.60 S	1,00 BOK	4.35 N 4.05 S	16.00	G&W, FTTH&E	ACCESS PLACE
NYMAN CIRCUIT	2,20 N	2,70 N	3,20 N	1,85 S	1,78 N/S	2,60 S	1,00 BOK	4.35 N 4.05 S	16,00	G&W, FTTH&E	ACCESS PLACE
LAFLIN AVENUE	2.20 W	2.70 W	3.20 W	1.85 E	1.78 E/W	2.60 E	1.00 BOK	4.05 E 4.35 W	16.00	G&W, FTTH&E	ACCESS PLACE
MAHONEY DRIVE	2.20 W	2.75 W	3.25 W	1.85 E	1.78 E/W	2.60 E	1.00 BOK	4.05 E 4.35 W	16.00	G&W, FTTH&E	ACCESS PLACE

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 GUIRANTEES IS
GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

ATTENTION TO CONTRACTOR

- Contractor to ensure that the site is pegged and or set out checked by the ilcenced surveyor responsible for certifying the Plan of Subdivision prior to underground infrastructure being installed.
- . Where concrete works abut a sewer access chamber surround or similar structure an expansion joint of approved material shall be provided between the two faces.

SYMBOL LEG	END		
Drains Sewer < 300Ø Sewer ≥ 300Ø Water (DW) Water (NDW)	Prop Prov Stage	ExtNatural/FS Level FS @ Building Line Top/Toe of Batter	45
House Drain Property Inlet Street Sign PSM		Top Ret. Wall Level 100yr Flood Level Fill Proposed (<0.3m/≥0	+1 +1 (1.3m)
Rock Ret Wall Sleeper Ret Wall Conduits 50mm Conduits 100mm Street Tree without/ Passive Infgation (R Detail)		Cut Proposed Asphalt Surface Prop Concrete Surface Prop (Paths/Driveways/Slabs))
Ex Drains Ex Water DW/ND/W Ex Sewer/Sas Ex Elect/Comm		Tree To Be Removed	th_

		8		breese pitt dixon pty. Itd land surveyors civil engineer
		MELWAY REF.	234-G-2	RIVERDALE VILLAGE ESTA
		SURVEY	BPD	STAGE 22
26.07.21	OUTLET DETAIL AT PIT 1 ADDED & SHEET INDEX UPDATED	DESIGN	AR	STAGE 22

CHECKED

STAGE 22 SCALE AS SHOWN DATUM AHD

1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310 WYNDHAM 8554^E/₂₂

SHEET 1 OF 16 B



COMPACTION ASSESSMENT

 CIVIL GEOTECHNICAL SERVICES
 Job No
 21406

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 21406/R001

 Date Issued
 11/05/2022

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested byJBProjectRIVERDALE - STAGE 22Date tested06/05/22LocationTARNEITChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 11:00

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		1	2	3	4	5	6
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	ТО	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.79	1.79	1.78	1.86	1.83	2.04
Field moisture content	%	17.3	16.5	21.1	11.1	16.6	15.4

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/m³	1.86	1.85	1.85	1.92	1.91	2.10		
Adjusted Peak Converted Wet Density	t/m³	ı	-	-	-	-	-		
Optimum Moisture Content	%	19.5	18.0	23.5	13.0	19.0	17.5		

Moisture Variation From	2.5%	1.5%	2.5%	2.0%	2.0%	2.0%
Optimum Moisture Content	dry	dry	dry	dry	dry	dry

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})	%	96.5	96.5	96.0	97.0	96.0	97.0

Material description

No 1 - 6 Clay Fill

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

AVRLOT HILF V1.10 MAR 13

Approved Signatory: Justin Fry