

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

30th June 2020

Our Reference: 19774:NB765

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING 85 - 109 FARM ROAD – STAGE 1 (WERRIBEE)

Please find attached our Report No's 19774/R001 and 19774/R002 which relate to the field density testing that was conducted within the filled allotments of the above subdivision. The level 1 inspections and associated field density testing was performed in November 2019.

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).

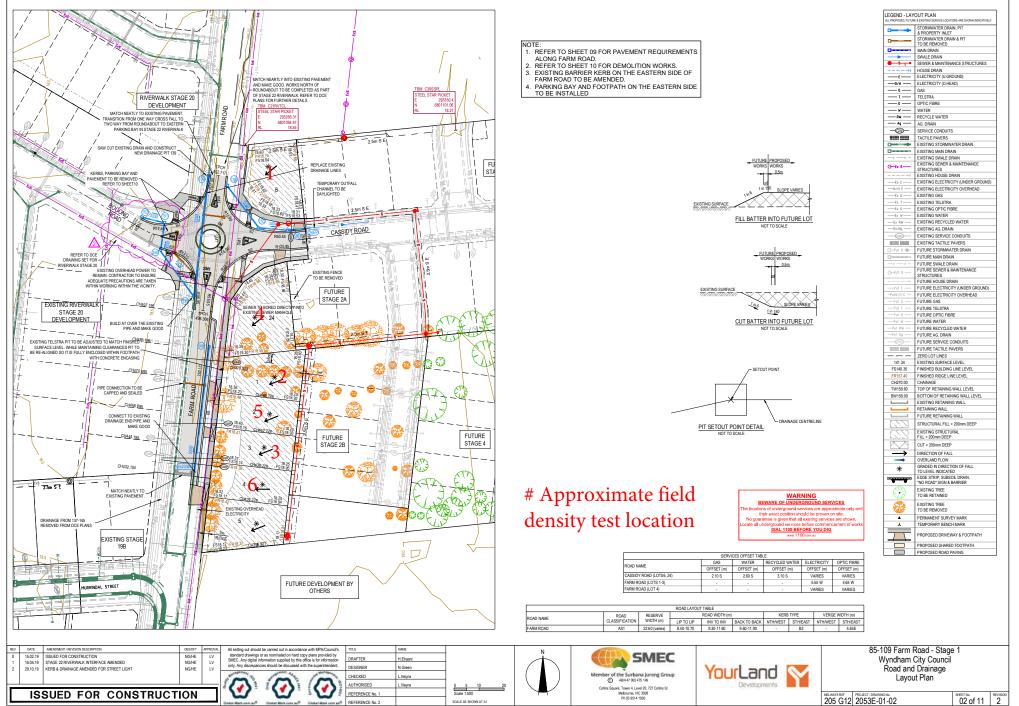
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1



DWG PATH: VI_VaultProjects_Uthan12053E-85-109 Farm Road, Wentbeel2053E-01Dwgsl2053E-01-02.dwg PRINTED BY: NG12326 on 29110/2019 at 11:12:29 AM



COMPACTION ASSESSMENT

8 Rose Avenue, Croydon 313	RVICES 36 CONSTRUCTORS					Job No Report No Date Issued	19774 19774/R00 16/03/2020
	RM ROAD - STAGE	•		:LD)		Tested by Date tested Checked by	JB 29/11/19 JHF
Feature EARTHWC)RKS	Lay	er thickness	200 mi	n	Time	e: 13:30
Test procedure AS 1289	9.2.1.1 & 5.8.1						
Test No		1	2	3	-	-	-
Location		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
Approximate depth below I	FSL						
Measurement depth	mm	175	175	175	-	-	-
Field wet density Field moisture content	<u>t/m³</u> %	1.90 16.9	1.93 14.4	1.91 16.1	-	-	-
Test procedure AS 1289 Test No Compactive effort	9.5.7.1	1	2	3 Standa	- rd	-	-
Oversize rock retained on	sieve mm	19.0	19.0	19.0	-	-	-
Percent of oversize materia	al wet	0	0	0	-	-	-
Peak Converted Wet Dens	sity t/m³	1.90	1.92	1.90	-	-	-
Adjusted Peak Converted	Wet Density t/m ³	-	-	-	-	-	-
A <i>i i i i i i i i i i</i>	t %	19.5	16.5	18.5	-	-	-
Optimum Moisture Conten							
Optimum Moisture Conten Moisture Variation	From	2.5%	2.0%	2.5%	-	-	-
Optimum Moisture Conten Moisture Variation Optimum Moisture		2.5% dry	2.0% dry	2.5% dry	-	-	-

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Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

	CHNICAL SERVICES ue, Croydon 3136	Job No Report No Date Issued	19774 19774/R002 12/05/2020
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BGG
Project	85-109 FARM ROAD - STAGE 1	Date tested	02/12/19
Location	WERRIBEE	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	<i>Time:</i> 11:52

Test procedure AS 1289.2.1.1 & 5.8.1

		4	5	6	-	-	-
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∕m³	1.89	1.92	1.93	-	-	-
Field moisture content	%	15.7	17.7	20.1	-	-	-
Test procedure AS 1289.5.7.1					1	r	
Test No		4	5	6	-	-	-
Test No Compactive effort				Stan	dard		
Test No Compactive effort Oversize rock retained on sieve	mm	19.0	19.0	Stan 19.0		-	-
Test No Compactive effort Oversize rock retained on sieve Percent of oversize material	wet	19.0 0	19.0 0	Stan 19.0 0	dard - -	-	
Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density	wet t/m³	19.0	19.0	Stan 19.0	dard	-	
Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density	wet	19.0 0	19.0 0	Stan 19.0 0	dard - -		
Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density	wet t/m³ t/m³	19.0 0 1.92	19.0 0 1.95 -	Stan 19.0 0 1.96 -	dard - - - -	- - - - -	- - - -

No 4 - 6 Clay Fill



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

AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry