

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

25<sup>th</sup> February 2020

Our Reference: 19777:NB666

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

#### RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING EYNESBURY – STAGE 5A (EYNESBURY)

Please find attached our Report No's 19777/R001 and 19777/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 December 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).

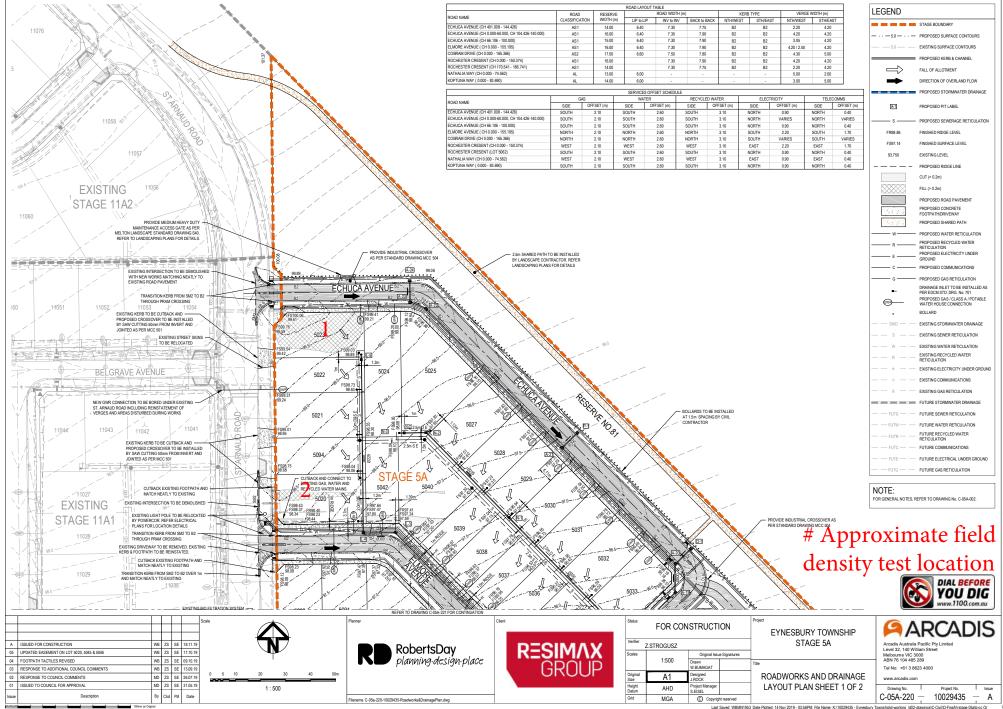
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

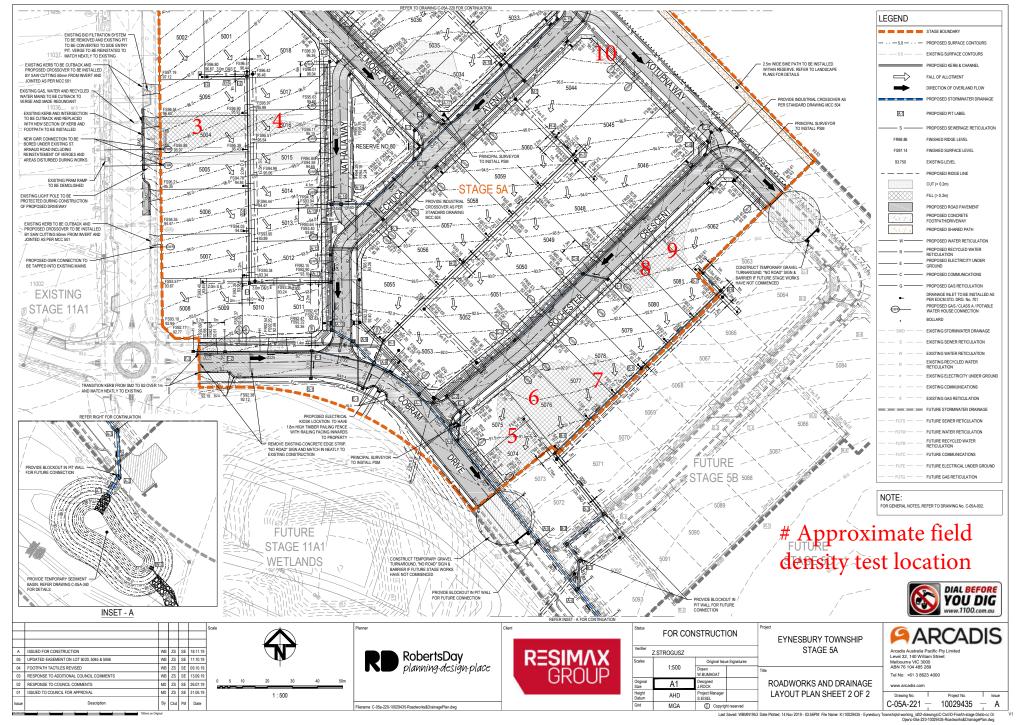
Nick Brock

# FIGURE 1 (1 of 2)



-working\_\d02-drawings\C-CivifID-Final/h-stage 05a/b-cc Or Opw\c-05a-220-10029435-Roadworks&DrainagePlan.dwg

# FIGURE 1 (2 of 2)





### **COMPACTION ASSESSMENT**

VIL GEOTECHNICAL SERVICES 8 Rose Avenue, Croydon 3136	Re Da	b No eport No ate Issued	19777 19777/R001 25/02/2020				
Client WINSLOW CONS Project EYNESBURY - ST Location EYNESBURY	Da	ested by ate tested aecked by	BS 17/12/19 JHF				
Feature EARTHWORKS		Layer thickness		200 mm		<i>Time:</i> 13:58	
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/m³	1.80	1.80	1.80	1.80	1.80	1.81
Test muses down AO (000 F T (				2	4	5	6
Test No		1	2	3		5	0
Compactive effort	mm			Stan	dard		
Test No Compactive effort Oversize rock retained on sieve	mm	19.0	19.0	Stan 19.0	dard 19.0	19.0	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 19.0 0	19.0 5	19.0 0
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 19.0	19.0 5 1.84	19.0
Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet De	wet t/m³	19.0 0	19.0 0	Stan 19.0 0	dard 19.0 0	19.0 5	19.0 0
Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet De Optimum Moisture Content	wet t/m³ nsity t/m³	19.0 0 1.80 - 26.0	19.0 0 1.80 - 27.0	Stan 19.0 0 1.80 - 26.0	dard 19.0 0 1.83 - 27.5	19.0 5 1.84 1.87 27.5	19.0 0 1.84 - 29.0
Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet De	wet t/m³ nsity t/m³ %	19.0 0 1.80 -	19.0 0 1.80 -	Stan 19.0 0 1.80 -	dard 19.0 0 1.83 -	19.0 5 1.84 1.87	19.0 0 1.84 -

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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

Approved Signatory : Justin Fry



### **COMPACTION ASSESSMENT**

<b>/IL GEOTECHNI</b> B Rose Avenue, Cl	R D	ob No Report No Pate Issued Tested by	19777 19777/R00 05/02/2020					
ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)ProjectEYNESBURY - STAGE 5ALocationEYNESBURY								BS 18/12/19 JHF
Feature E	ARTHWORKS		Layer thickness		200 mm		<i>Time:</i> 14:03	
Test procedure	AS 1289.2.1.1 & 5	.8.1						
Test No			7	8	9	10	-	-
Location			REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1		
Approximate dep								
Measurement de		mm	175	175	175	175	-	-
Field wet density Field moisture co		<u>t/m³</u> %	1.92 21.7	1.89 22.5	1.94 21.6	1.87 23.4	-	-
Test procedure Test No Compactive effor			7	8	9 Stan	10 dard	-	-
, Oversize rock ret		mm	19.0	19.0	19.0	19.0	-	-
Percent of oversi	ze material	wet	0	0	0	0	-	-
Peak Converted	Wet Density	t∕m³	1.96	1.96	2.01	1.92	-	-
Adjusted Peak C	onverted Wet Density	∕ t/m³	-	-	-	-	-	-
Optimum Moistur	e Content	%	23.0	24.5	23.5	25.0	-	-
Moisture	Variation From		1.5%	2.0%	2.0%	1.5%	-	-
Optimum	Moisture Content		dry	dry	dry	dry		
Density Ratio(	R <sub>HD</sub> )	%	98.0	96.5	96.5	97.5	-	-
<b>Density Ratio(</b> Material descripti No 7 - 10 C	on	%	98.0	96.5	96.5	97.5	-	-

Accredit

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