

## CIVIL GEOTECHNICAL SERVICES ABN 26 474 013 724

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7<sup>th</sup> February 2018

Our Reference: 18070:NB131

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams.

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING CORNERSTONE – STAGE 3 (WYNDHAM VALE)

Please find attached our Report No 18070/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 commenced in November 2017 and was completed in early February 2018.

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 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).

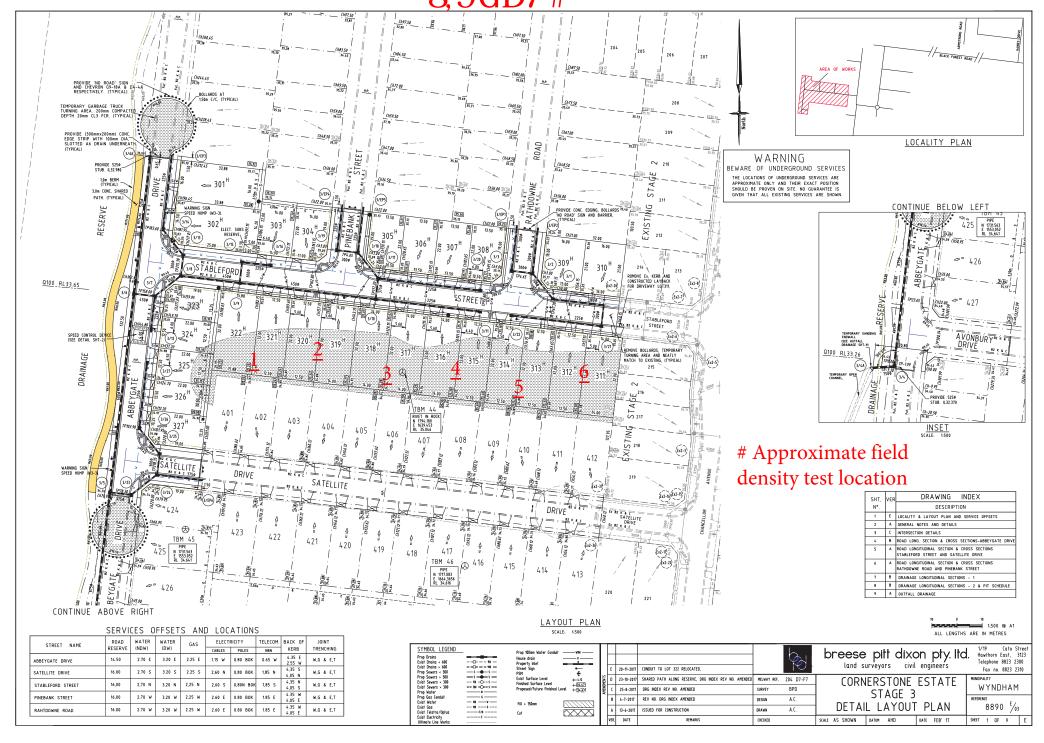
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

8:9GD7#





## **COMPACTION ASSESSMENT**

 CIVIL GEOTECHNICAL SERVICES
 Job No
 18070

 6 - 8 Rose Avenue, Croydon 3136
 Pate Issued
 07/02/2018

 Client
 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Tested by
 JB

 Project
 CORNERSTONE - STAGE 3
 Date tested
 05/02/18

 Location
 WYNDHAM VALE
 Checked by
 JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 09:54

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	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.78	1.80	1.86	1.88	1.75	1.83
Field moisture content	%	22.8	21.4	24.7	17.9	27.8	24.4

Test procedure AS 1289.5.7.1

1001 procedure 110 1200.0.7.1							
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	1	1	0	0
Peak Converted Wet Density	t/m³	1.81	1.86	1.92	1.93	1.76	1.86
Adjusted Peak Converted Wet Density	t/m³	•	-	1.94	1.96	-	-
Optimum Moisture Content	%	25.0	24.0	24.5	19.5	30.5	27.0

Moisture Variation From	2.0%	2.5%	0.0%	1.5%	2.5%	2.5%
Optimum Moisture Content	dry	dry		dry	dry	dry

Density Ratio (R <sub>HD</sub> ) %	98.5	96.5	95.5	96.0	99.5	98.5
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Material description

No 1 - 6 Clay Fill



Approved Signatory : Justin Fry

AVRLOT HILF V1.10 MAR 13