

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

1<sup>st</sup> May 2023

Our Reference: 22283:NB1536

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

## RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING REDSTONE – STAGE 6 (SUNBURY)

Please find attached our Report No 22283/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





## **COMPACTION ASSESSMENT**

VIL GEOTECHNICAL SERVICES 8 Rose Avenue, Croydon 3136 Client WINSLOW CONSTRUC <sup>-</sup>	TORS	PTY LTD (C/	AMPBELLFI	ELD)		Report No Date Issued Tested by	22283/R00 10/05/2022 AM
roject REDSTONE ESTATE - STAGE 6 ocation SUNBURY						Date tested Checked by	04/05/22 JHF
Feature EARTHWORKS		<i>Layer thickness</i> 200 mm				Time	: 15:41
Test procedure AS 1289.2.1.1 & 5.8.	1					_	
Test No		1	2	3	-	-	-
Location		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
Approximate depth below FSL							
Measurement depth	mm	175	175	175	-	-	-
Field wet density	t∕m³	1.80	1.78	1.75	-	-	-
Field moisture content	%	30.0	29.5	31.4	-	-	-
T (							
Test procedure AS 1289.5.7.1 Test No		4	2	3	_	-	-
Compactive effort		1	Z	Stan		-	-
Oversize rock retained on sieve	mm	19.0	19.0	19.0		-	_
Percent of oversize material	wet	0	0	0			
Peak Converted Wet Density	t/m <sup>3</sup>	1.84	1.83	1.81	-	-	-
Adjusted Peak Converted Wet Density	t/m <sup>3</sup>	-	-	-	-	_	-
Optimum Moisture Content	%	30.5	32.0	33.5	-	-	-
Moisture Variation From		1.0%	2.5%	2.0%			
Optimum Moisture Content		dry	dry	dry			_
density and moisture ratio results r	colata d				not to the	full dopth of th	
		-	-				
Density Ratio(R <sub>HD</sub> )	%	98.0	97.5	96.5	-	-	-
Material description No 1 - 3 Clay Fill							



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Approved Signatory : Justin Fry