

CIVIL GEOTECHNICAL SERVICES ABN 26 474 013 724

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

17th May 2021

Our Reference: 21292:NB954

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING DELARAY – STAGE 12B (CLYDE NORTH)

Please find attached our Report No 21292/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 was performed in April 2021.

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



WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE
APPROXIMED ONLY AND THEIR EXACT POSITION
SHOULD BE PROVEN ON STIE. NO GURANITE IS
GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

ATTENTION TO CONTRACTOR

- IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE DIGITAL PLAN, PROVIDED FOR SETOUT PURPOSES, MATCHES THE TBM COORDINATES SHOWN.
- Contractor to ensure that the site is pegged and or set out checked by the licenced 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.

SERVICES OFFSETS AND LOCATIONS

STREET NAME	Rd.RESERVE	WAT	ER	CAS	ELECT		PIBRE TO		Bk. of KERB	JOINT TRENCHING	STREET
STREET NAME	KO. KESEKVE	DW	NDM	UAS	CABLES	POLES	PTTH CABLES	PITH PITS	DK. OI KEKB	JOINT TRENCHING	CLASIFICATION
SALAMANCA DRIVE (EAST-WEST)	18-00	3-20 S	2-70 S	2-25 \$	2-55 N	0-90 BOK	1-95 N		5.05 N 5.05 S	G & W, FTTH & E	STREET - LEVEL I
SALAMANCA DRIVE (NORTH-SOUTH)	14-00	2 · 70 W	2-25 W	1-80 W	3-95 W	0-90 BOK	3-20 W		5-40 W 1-00 E	G & W, FTTH & E	STREET - LEVEL I

PLAN SCRE 1500	SYMBOL LEGEND Drains Sever <100 Sever >100 Nater W	Ex/Natural/FS Level .28.41 .5028.41 [553] FS • Building Line 553231 Top/Toe of Batter 1553233						breese		dixon pty. civil engii	tologhaga 9937 3700
SCALE 1: 500	House Drain Property Inlet Street Sign	Top Ret. Wall Level (1928-17)	AMENDMENTS			MELWAY REF.	135-B-5	DE	LARAY	ESTATE	MUNICIPALITY CASEY
10 5 0 10 20 40	Retaining Wall people continue	Fill Prop/Ex	SWE -	\dashv		DESIGN	GL	1 :	STAGE	12B	REFERENCE , S
LENGTHS ARE IN METRES	Conduits 50mm — ## — ## — ## — #### — #### — #### — #### — #### — #### — #### — #### — #### — #### — #### — #### — #### — #### — #### — #### — #### — #### — ##### — ### — ### — ##### — #### — ### — ### — #### — ### — ### — ### — ### — ### —	Cut Prop/Ex (\sqrt{1})				DRAWN	GL				8974 ^E /128
			VER.	DATE	REMARKS	CHECKED		SCALE AS SHOWN	DATUM AHD	DATE FEB'2	
											[:VH997/VENG/ST128/E128_R01_DET.don



COMPACTION ASSESSMENT

Job No 21292 CIVIL GEOTECHNICAL SERVICES Report No 21292/R001 Date Issued 17/05/2021 6 - 8 Rose Avenue, Croydon 3136 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) Tested by SB Client Project **DELARAY - STAGE 12B** Date tested 29/04/21 **CLYDE NORTH** Location Checked by JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 14:30

Test No		1	2	-	-	-	-
Location							
		REFER	REFER				
		TO	TO				
		FIGURE 1	FIGURE 1				
Approximate depth below FSL							
Measurement depth	mm	175	175	-	-	-	-
Field wet density	t/m³	1.83	1.83	-	-	-	-
	0./	20.4	21.5	_	_	_	_
	%	20.4	21.3	-		<u> </u>	<u> </u>
Test procedure AS 1289.5.7.1	<u>%</u>	1	21.5	-	-	-	-
Test procedure AS 1289.5.7.1 Test No	%			-	- ndard	1	-
Test procedure AS 1289.5.7.1 Test No Compactive effort	mm			-		1	-
Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve		1	2	- Star	ndard	-	<u> </u>
Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material	mm	1 19.0	2	- Star	ndard -	-	<u> </u>
Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density	mm wet	1 19.0 0	2 19.0 0	- Star	ndard - -		<u> </u>
Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density	mm wet t/m³	1 19.0 0 1.85	2 19.0 0 1.89	- Star - -	dard - - -	- - -	-
Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density	mm wet t/m³	1 19.0 0 1.85	2 19.0 0 1.89	- Star - - - -	dard - - - -	- - - -	-
Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density	mm wet t/m³	19.0 0 1.85 - 20.0	2 19.0 0 1.89 - 19.5	- Star - - - -	dard - - - -	- - - -	-
Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density Optimum Moisture Content Moisture Variation From	mm wet t/m³	1 19.0 0 1.85 - 20.0	2 19.0 0 1.89 - 19.5	- Star - - - -		- - - - -	-
Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density Optimum Moisture Content Moisture Variation From Optimum Moisture Content	mm wet t/m³	19.0 0 1.85 - 20.0	2 19.0 0 1.89 - 19.5	- Star - - - -		- - - - -	-

Material description

No 1 - 2 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