

CIVIL GEOTECHNICAL SERVICES ABN 26 474 013 724

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

3rd March 2023

Our Reference: 22747:NB1482

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING OFFICER CENTRAL – STAGE 4 (OFFICER)

Please find attached our Report No's 22747/R001 to 22747/R004 which relate 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 2022 and was completed in December 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).

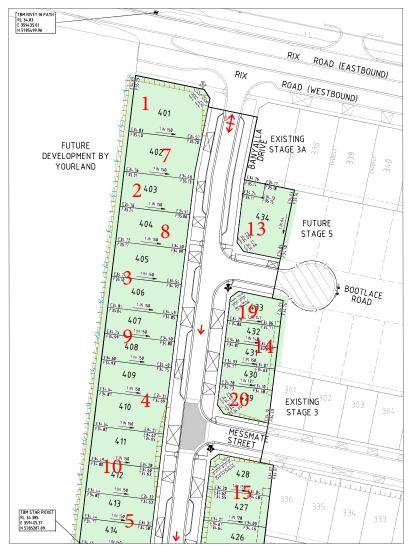
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

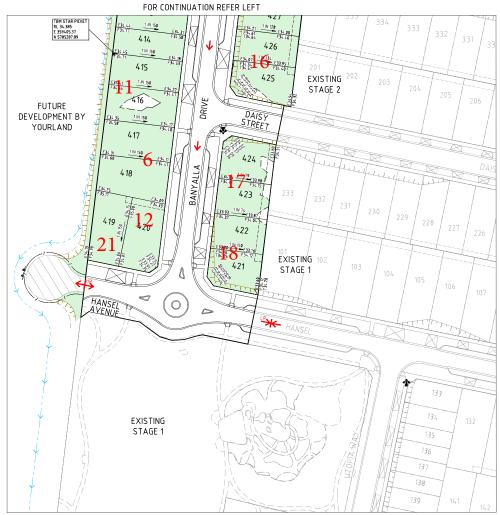
Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1







FOR CONTINUATION REFER RIGHT

WARNING

BEWARE OF UNDERGROUND/OVERHEAD SERVICES BEWARE OF UNDERGROUND/OVERHEAD SERVICES THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPCICAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

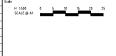




FILL GREATER THAN 200mm

Approximate field density test location

0	ISSUED FOR CONSTRUCTION	B.W	29/09/22
С	ADDED PARKING BAYS, AMENDED WEST LEG SPLITTER ISLAND	B.W	25/07/22
В	AMENDED ROUNDABOUT	B.W	01/07/22
A	PRELIMINARY ISSUE	B.W	23/03/22
Rev	Amendments	Approved	Date







re		YourLand M
-	Designed	Checked
	M. WRIGHT	B. IBBS
30		

Designed	Checked
M. WRIGHT	B. IBB
Authorised	Date
B. WAREHAM	29/09/

	OFFICER CENTRAL STAGE 4
_	ROAD AND DRAINAGE ROAD LAYOUT PLANS - EARTHWORKS PLAN CARDINIA SHIRE YOURLAND PTY LTD
	CONSTRUCTION 309132CR202



 CIVIL GEOTECHNICAL SERVICES
 Job No
 22747

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 22747/R001

 Date Issued
 19/12/22

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested bySBProjectOFFICER CENTRAL - STAGE 4Date tested29/11/22LocationOFFICERChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 08:30

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	2.06	2.05	2.05	2.05	2.04	2.06
Field moisture content	%	20.4	17.2	20.4	17.8	18.3	18.5

Test procedure AS 1289.5.7.1

Test No		1	2	3	4	5	6
Compactive effort				Stan	ndard		
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	0	0	0	0
Peak Converted Wet Density	t/m³	2.08	2.01	2.07	2.07	2.06	2.07
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	22.0	19.0	22.0	19.5	20.0	20.0

· ·						
Moisture Variation From	1.5%	2.0%	1.5%	1.5%	2.0%	1.5%
Optimum Moisture Content	dry	dry	dry	dry	dry	dry

density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer

Density Ratio (R _{HD})	%	99.0	102.0	99.0	98.5	99.0	99.5

Material description

No 1 - 6 Clay Fill

NATA Accredited Laboratory No 9909
Accredited for compliance with
ISO/IEC 17025 - Testing

AVRLOT HILF V1.10 MAR 13



 CIVIL GEOTECHNICAL SERVICES
 Job No
 22747

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 22747/R002

 Date Issued
 19/12/22

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested bySBProjectOFFICER CENTRAL - STAGE 4Date tested30/11/22LocationOFFICERChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 12:00

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		7	8	9	10	11	12
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	2.02	2.01	2.02	2.01	2.01	2.01
Field moisture content	%	18.5	17.5	18.1	20.0	19.5	19.6

Test procedure AS 1289.5.7.1

Test No		7	8	9	10	11	12
Compactive effort				Stan	ndard		
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	0	0	0	0
Peak Converted Wet Density	t/m³	2.04	2.04	2.03	2.06	2.03	2.06
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	20.0	19.0	19.5	20.0	20.0	21.0

Moisture Variation From	1.5%	1.5%	1.5%	0.0%	0.5%	1.5%
Optimum Moisture Content	dry	dry	dry		dry	dry

density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer

Density Ratio (R _{HD}) %	6	99.0	98.0	99.5	98.0	99.0	97.5

Material description

No 7 - 12 Clay Fill

NATA Accredited Laboratory No 9909
Accredited for compliance with
ISO/IEC 17025 - Testing

AVRLOT HILF V1.10 MAR 13



 CIVIL GEOTECHNICAL SERVICES
 Job No
 22747

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 22747/R003

 Date Issued
 19/12/22

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested bySBProjectOFFICER CENTRAL - STAGE 4Date tested01/12/22LocationOFFICERChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 11:00

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		13	14	15	16	17	18
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		ТО	ТО	ТО	TO	TO	ТО
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	2.03	2.01	2.01	2.02	2.03	2.02
Field moisture content	%	18.2	20.2	18.6	18.5	19.2	19.3

Test procedure AS 1289.5.7.1

Test No		13	14	15	16	17	18
Compactive effort				Stan	dard		
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	0	0	0	0
Peak Converted Wet Density	t/m³	2.03	2.06	2.05	2.02	2.05	2.06
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	18.5	20.5	20.0	18.5	20.5	19.5

Moisture Variation From	0.0%	0.5%	1.5%	0.0%	1.5%	0.0%
Optimum Moisture Content		dry	dry		dry	

density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer

Density Ratio (R _{HD})	%	100.0	97.5	97.5	100.0	99.5	98.0

Material description

No 13 - 18 Clay Fill

NATA Accredited Laboratory No 9909
Accredited for compliance with
ISO/IEC 17025 - Testing

AVRLOT HILF V1.10 MAR 13



 CIVIL GEOTECHNICAL SERVICES
 Job No
 22747

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 22747/R004

 Date Issued
 19/12/22

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested bySBProjectOFFICER CENTRAL - STAGE 4Date tested02/12/22LocationOFFICERChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 13:30

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		19	20	21	-	-	-
Location							
		REFER	REFER	REFER			
		ТО	ТО	ТО			
		FIGURE 1	FIGURE 1	FIGURE 1			
Approximate depth below FSL							
Measurement depth	mm	175	175	175	ı	-	-
Field wet density	t/m³	2.09	2.08	2.07	-	-	-
Field moisture content	%	19.6	22.1	17.6	-	-	-

Test procedure AS 1289.5.7.1

Test No		19	20	21	-	-	-	
Compactive effort		Standard						
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/m³	2.09	2.09	2.08	-	-	-	
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-	
Optimum Moisture Content	%	22.0	24.5	18.5	-	_	-	

Moistu	re Variation From	2.0%	2.0	% 1.	.0%	-	-	-
Optimui	m Moisture Content	dry	dry	/ 0	dry			

density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer

Density Ratio (R _{HD})	%	100.0	99.5	99.5	-	-	-

Material description

No 19 - 21 Clay Fill

NATA Accredited Laboratory No 9909
Accredited for compliance with
ISO/IEC 17025 - Testing

AVRLOT HILF V1.10 MAR 13