

CIVIL GEOTECHNICAL SERVICES ABN 26 474 013 724

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

7th May 2024

Our Reference: 24205:NB1856

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING MERRIFIELD RESIDENTIAL – STAGE 5 (MICKLEHAM)

Please find attached our Report No's 24205/R001 to 24205/R003 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 was performed in April 2024.

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).

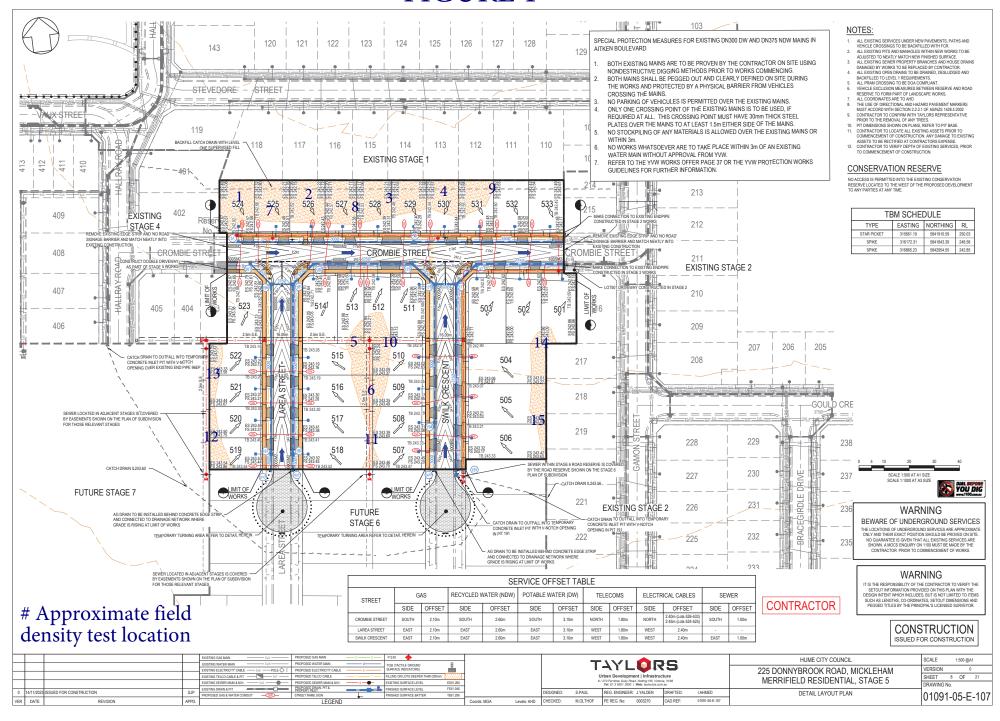
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1





COMPACTION ASSESSMENT

Job No 24205 CIVIL GEOTECHNICAL SERVICES Report No 24205/R001 6 - 8 Rose Avenue, Croydon 3136 Date Issued 07/05/24

Client WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) Tested by AC **Project** MERRIFIELD RESIDENTIAL - STAGE 5 Date tested 11/04/24 Location **MICKLEHAM** Checked by JHF

EARTHWORKS Layer thickness 200 mm Time: 10:38 Feature

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	2.09	1.99	2.04	2.02	2.01
Field moisture content	%	17.0	18.8	18.3	17.6	18.9	18.9

Test procedure AS 1289.5.7.1

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	0	0	0	0		
Peak Converted Wet Density	t/m³	2.09	2.11	2.02	2.04	2.04	2.04		
Adjusted Peak Converted Wet Density	t/m³	ı	-	-	-	-	-		
Optimum Moisture Content	%	18.5	19.0	20.0	20.0	21.0	21.0		

Moisture Variation From	1.5%	0.0%	2.0%	2.0%	2.0%	2.0%
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})	%	98.5	99.0	98.5	99.5	99.0	98.5

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

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

 CIVIL GEOTECHNICAL SERVICES
 Job No
 24205

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 24205/R002

 Date Issued
 07/05/24

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested byACProjectMERRIFIELD RESIDENTIAL - STAGE 5Date tested12/04/24LocationMICKLEHAMChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 11:36

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	ТО	ТО	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	2.08	2.02	2.02	1.97	2.02	1.88
Field moisture content	%	18.6	18.3	18.5	18.3	18.8	19.4

Test procedure AS 1289.5.7.1

Test No		7	8	9	10	11	12		
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	0	0	0	0		
Peak Converted Wet Density	t/m³	2.10	2.06	2.04	2.03	2.05	1.91		
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-		
Optimum Moisture Content	%	20.5	20.0	20.5	20.0	18.5	21.5		

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Moisture Variation From	1.5%	1.5%	2.0%	1.5%	0.0%	2.0%	
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	97.0	98.5	98.5

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

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

 CIVIL GEOTECHNICAL SERVICES
 Job No
 24205

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 24205/R003

 Date Issued
 07/05/24

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested byACProjectMERRIFIELD RESIDENTIAL - STAGE 5Date tested15/04/24LocationMICKLEHAMChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 12:34

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		13	14	15	-	-	-
Location							
		REFER	REFER	REFER			
		TO	ТО	TO			
		FIGURE 1	FIGURE 1	FIGURE 1			
Approximate depth below FSL							
Measurement depth	mm	175	175	175	-	-	-
Field wet density	t/m³	1.90	1.87	1.86	-	-	-
Field moisture content	%	19.5	20.0	19.4	-	-	-

Test procedure AS 1289.5.7.1

Test No		13	14	15	-	-	-
Compactive effort				Stan	ndard		
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	1.91	1.89	1.89	-	-	-
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	21.5	22.5	22.0	-	-	-

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	Moisture Variation From	2.0%	2.5%	2.5%	-	-	-
	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})	%	99.5	98.5	98.5	-	-	-

Material description

No 13 - 15 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