

CIVIL GEOTECHNICAL SERVICES ABN 26 474 013 724

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

28th February 2024

Our Reference: 23263:NB1801

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING EYNESBURY – STAGE 18D (EYNESBURY)

Please find attached our Report No's 23263/R001 to 23263/R005 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 was performed in May 2023.

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).

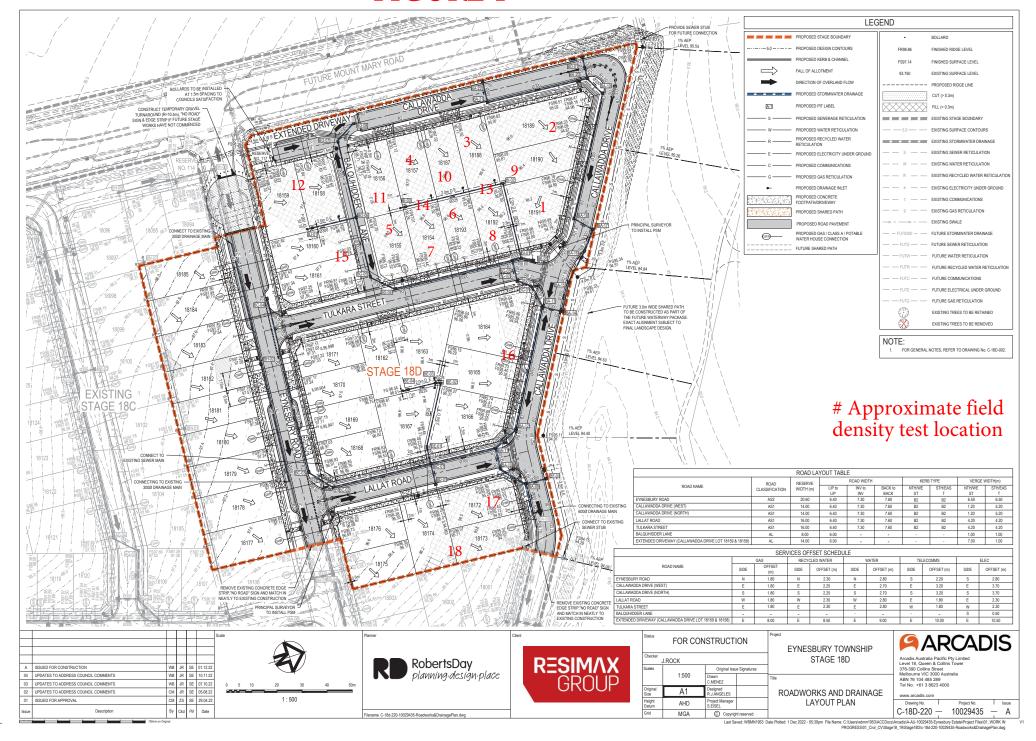
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1





Project

Location

Feature

COMPACTION ASSESSMENT

Layer thickness

EYNESBURY - STAGE 18D

EYNESBURY

EARTHWORKS

Test procedure AS 1289.2.1.1 & 5.8.1 Test No 1 2 3 Location REFER REFER REFER TO TO TO FIGURE 1 FIGURE 1 FIGURE 1 Approximate depth below FSL Measurement depth mm 175 175 175 Field wet density t/m³ 2.09 2.10 2.12 Field moisture content % 24.6 20.2 23.9 --Test procedure AS 1289.5.7.1 Test No 1 2 3 Compactive effort Standard Oversize rock retained on sieve 19.0 19.0 19.0 mm Percent of oversize material wet 0 0 0 Peak Converted Wet Density 2.11 2.11 2.11 t/m³ -Adjusted Peak Converted Wet Density t/m³ -----Optimum Moisture Content % 23.5 20.5 24.0 Moisture Variation From 1.0% 0.5% 0.0% Optimum Moisture Content wet 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 99.5 100.0

Material description

No 1 - 3 Clay Fill



AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry

Date tested

Checked by

200 mm

01/05/23

JHF

Time: 10:30



Job No 23263 **CIVIL GEOTECHNICAL SERVICES** Report No 23263/R002 Date Issued 31/05/23 6 - 8 Rose Avenue, Croydon 3136 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) Tested by ws Client Project EYNESBURY - STAGE 18D Date tested 02/05/23 Location **EYNESBURY** Checked by JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 10:30

Test procedure AS 12	289.2.1.1 & 5.8.1
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Test No		4	5	6	-	-	-
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	1.95	1.88	2.02	-	-	-
Field moisture content	%	19.3	20.3	21.1		-	-

Test procedure AS 1289.5.7.1

1001 procedure 110 1200.0.7.1							
Test No		4	5	6	-	-	-
Compactive effort				Star	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	1.99	1.94	2.05	-	-	-
Adjusted Peak Converted Wet Density	t/m³	•	-	-	-	-	-
Optimum Moisture Content	%	21.5	23.0	23.5	-	-	-

Moisture Variation From	2.0%	2.5%	2.0%	-	-	-
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}) %	98.0	97.0	98.5	-	-	-
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Material description

No 4 - 6 Clay Fill



AVRLOT HILF V1.10 MAR 13



Job No 23263 **CIVIL GEOTECHNICAL SERVICES** Report No 23263/R003 Date Issued 31/05/23 6 - 8 Rose Avenue, Croydon 3136 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) Tested by ws Client Project EYNESBURY - STAGE 18D Date tested 03/05/23 Location **EYNESBURY** Checked by JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 10:00

Test No		7	8	9	-	-	-
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	2.06	2.11	2.11	-	-	-
Field moisture content	%	23.0	21.3	21.3	-	-	-

Test procedure AS 1289.5.7.1

1001 p. 000 da. 0 7.0 1200 io. 1 1							
Test No		7	8	9	-	-	-
Compactive effort				Stan	dard		
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	2.08	2.14	2.11	-	-	-
Adjusted Peak Converted Wet Density	t/m³	•	-	-	-	-	-
Optimum Moisture Content	%	22.0	21.5	21.5	-	-	-

Moisture Variation From	0.5%	0.0%	0.0%	-	-	-
Optimum Moisture Content	wet					

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

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Material description

No 7 - 9 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
 23263

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 23263/R004

 31/05/23
 Date Issued
 31/05/23

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested byWSProjectEYNESBURY - STAGE 18DDate tested04/05/23LocationEYNESBURYChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 10:19

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		10	11	12	13	14	15
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	2.07	1.99	2.06	2.06	2.06
Field moisture content	%	20.8	20.1	20.2	21.3	22.1	21.0

Test procedure AS 1289.5.7.1

1001 procedure 110 1200.0.7.1							
Test No		10	11	12	13	14	15
Compactive effort				Star	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	2.07	2.09	2.01	2.08	2.07	2.10
Adjusted Peak Converted Wet Density	t/m³	•	-	-	-	-	•
Optimum Moisture Content	%	23.0	22.5	22.5	23.0	24.5	23.5

Moisture Variation From	2.0%	2.0%	2.0%	2.0%	2.0%	2.5%
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}) %	99.5	99.0	99.0	99.5	99.5	98.0
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Material description

No 10 - 15 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
 23263

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 23263/R005

 Date Issued
 22/05/23

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested byWSProjectEYNESBURY - STAGE 18DDate tested04/05/23LocationEYNESBURYChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 10:25

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		16	17	18	=	-	-
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	2.08	2.07	2.02	-	-	-
Field moisture content	%	19.5	23.5	20.0	-	-	-

Test procedure AS 1289.5.7.1

Test No		16	17	18	-	-	-
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	2.10	2.09	2.05	-	-	-
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	20.5	23.5	22.0	-	_	-

Moisture Variation From	1.0%	0.0%	2.0%	-	-	-
Optimum Moisture Content	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	99.5	98.5	-	-	-

Material description

No 16 - 18 Clay Fill

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

AVRLOT HILF V1.10 MAR 13