

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

10th March 2021

Our Reference: 20582:NB898

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING EYNESBURY – STAGE 8B (EYNESBURY)

Please find attached our Report No's 20582/R001 to 20582/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 testing was performed in March 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).

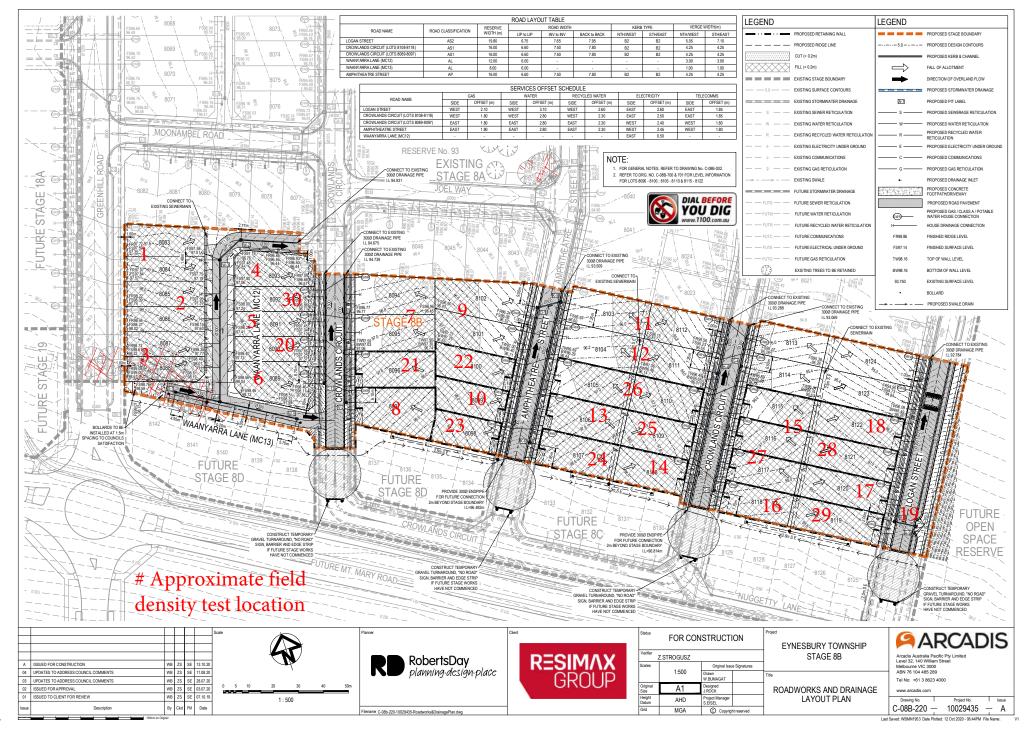
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1





8 Rose Avenue, Croydon 3136					Re	b No eport No ate Issued	20582 20582/R00 ² 10/03/2021
Client WINSLOW CONSTRU Project EYNESBURY - STAGI Location EYNESBURY	PTY LTD (CA	AMPBELLFIE	Da	sted by hte tested hecked by	BS 01/03/21 JHF		
Feature EARTHWORKS	ture EARTHWORKS		Layer thickness		200 mm		13:00
Test procedure AS 1289.2.1.1 & 5.	8.1						
Test No		1	2	3	4	5	6
Location		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t∕m³	1.71	1.65	1.73	1.67	1.71	1.71
	%	16.0	17.2	14.7	17.8	16.4	18.3
Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort	70	1	2	3	4	5	6
Test procedure AS 1289.5.7.1 Test No Compactive effort		1	2	3 Star	4 dard	5	6
Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve	mm	1 19.0	2 19.0	3 Stan 19.0	4 dard 19.0	5	6
Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material	mm wet	1 19.0 0	2 19.0 0	3 Stan 19.0 0	4 dard 19.0 0	5 19.0 0	6 19.0 0
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 t/m³	1 19.0	2 19.0	3 Stan 19.0	4 dard 19.0	5	6
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	2 19.0 0	3 Stan 19.0 0	4 dard 19.0 0	5 19.0 0	6 19.0 0
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	mm wet t/m ³ y t/m ³	1 19.0 0 1.76 - 18.0	2 19.0 0 1.72 - 19.5	3 Stan 19.0 0 1.81 - 16.5	4 dard 19.0 0 1.76 - 20.5	5 19.0 0 1.80 - 19.0	6 19.0 0 1.80 - 20.5
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/m ³ y t/m ³	1 19.0 0 1.76 -	2 19.0 0 1.72 -	3 Stan 19.0 0 1.81 -	4 dard 19.0 0 1.76 -	5 19.0 0 1.80 -	6 19.0 0 1.80 -

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. Accredited for compliance with ISO/IEC 17025 - Testing

Juli



VIL GEOTECHNICAL SERVICES 8 Rose Avenue, Croydon 3136					Re Da	b No eport No ate Issued	20582 20582/R002 10/03/2021
Client WINSLOW CONSTRUC Project EYNESBURY - STAGE Location EYNESBURY	PTY LTD (CA	AMPBELLFIE	Da	sted by ate tested aecked by	BS 02/03/21 JHF		
Feature EARTHWORKS	ture EARTHWORKS		Layer thickness		200 mm		13:06
Test procedure AS 1289.2.1.1 & 5.8	3. 1						
Test No		7	8	9	10	11	12
Location		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density Field moisture content	<u>t/m³</u> %	1.72 16.5	1.71 18.5	1.62 19.0	1.79 16.9	1.79 19.1	1.79 19.7
Test procedure AS 1289.5.7.1 Test No		7	8	9 Stan	10 dard	11	12
Compactive effort			40.0	19.0	19.0	19.0	19.0
Compactive effort	mm	19.0	190				
Oversize rock retained on sieve	mm wet	19.0 0	19.0 0				
Oversize rock retained on sieve Percent of oversize material	wet	0	0	0	0	0	0
Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density	wet t/m³						
Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density	wet	0	0	0	0	0	0
Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density Optimum Moisture Content Moisture Variation From	wet t/m³ t/m³	0 1.76 - 18.5 2.0%	0 1.72 - 20.0 1.5%	0 1.69 - 20.0 1.0%	0 1.80 - 19.0 2.0%	0 1.79 - 21.5 2.5%	0 1.82 - 21.5 2.0%
Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density Optimum Moisture Content	wet t/m³ t/m³	0 1.76 - 18.5	0 1.72 - 20.0	0 1.69 - 20.0	0 1.80 - 19.0	0 1.79 - 21.5	0 1.82 - 21.5

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. Accredited for compliance with ISO/IEC 17025 - Testing

Juli



	CAL SERVICES					Re Da	b No eport No ite Issued	20582 20582/R00 10/03/2021
<i>Project</i> EY	WINSLOW CONSTRUCTORS I EYNESBURY - STAGE 8B EYNESBURY			AMPBELLFIE	Da	sted by hte tested hecked by	BS 03/03/21 JHF	
Feature EA	RTHWORKS		Lay	er thickness	200	mm	Time:	13:12
Test procedure /	AS 1289.2.1.1 & 5.8	2.1						
Test No			13	14	15	16	17	18
Location			REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1
Approximate depti								
Measurement dep	th	mm	175	175	175	175	175	175
Field wet density Field moisture cor		<u>t/m³</u> %	1.80 17.0	1.81 14.6	1.81 18.2	1.78 18.3	1.78 16.6	1.78 16.7
Test procedure A Test No Compactive effort			13	14	15 Stan	16 Idard	17	18
Oversize rock reta	ined on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversiz		wet	0	0	0	0	0	0
Peak Converted V	Vet Density	t∕m³	1.85	1.82	1.91	1.80	1.84	1.84
Adjusted Peak Co	nverted Wet Density	t∕m³	-	-	-	-	-	-
Optimum Moisture	e Content	%	19.5	17.0	20.5	20.5	19.0	18.5
	Variation From		2.5%	2.5%	2.0%	2.0%	2.5%	2.0%
Moisture	Anistura Contant		dry	dry	dry	dry	dry	dry
Moisture Optimum N								



Client WINSLOW CONSTRU					Re Da	b No eport No ate Issued	20582 20582/R00 10/03/2021
Project EYNESBURY - STAGE Location EYNESBURY	PTY LTD (CA	MPBELLFIE	Da	sted by ate tested aecked by	BS 04/03/21 JHF		
Feature EARTHWORKS		Lay	er thickness	200	mm	Time:	13:18
Test procedure AS 1289.2.1.1 & 5.	8.1						
Test No		19	20	21	22	23	24
Location		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density Field moisture content	t/m³ %	1.77 22.3	1.73 21.2	1.66 22.6	1.70 22.3	1.66 18.1	1.67 20.7
Test procedure AS 1289.5.7.1 Test No Compactive effort		19	20	21 Stan	22 dard	23	24
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	1.75	1.72	1.75	1.80	1.71	1.74
Adjusted Peak Converted Wet Density		-	-	-	-	-	-
Optimum Moisture Content	%	24.5	23.5	25.0	25.0	20.5	22.5
		0.00/	0.5%	0.5%	0.5%	0.5%	0.00/
Moisture Variation From	Ĩ	2.0%	2.5%	2.5%	2.5%	2.5%	2.0%
Ontimum Mainture Contant		dry	dry	dry	dry	dry	dry
Optimum Moisture Content		101.5	100.5	95.0	95.0	96.5	96.5

Approved Signatory : Justin Fry



Client WINSLOW CON Project EYNESBURY - S Location EYNESBURY	-				Re Da	b No eport No ate Issued	20582 20582/R00 10/03/2021
		PTY LTD (CA	AMPBELLFIE	Da	ested by ate tested necked by	BS 05/03/21 JHF	
Feature EARTHWORKS		Lay	er thickness	200	mm	Time:	13:24
Test procedure AS 1289.2.1.	1 & 5.8.1						
Test No		25	26	27	28	29	30
Location		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density Field moisture content	<u>t/m³</u> %	1.72 17.6	1.71 18.2	1.71 17.4	1.71 18.0	1.66 16.8	1.66 15.7
Test procedure AS 1289.5.7. Test No Compactive effort	1	25	26	27 Stan	28 dard	29	30
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	1.81	1.75	1.77	1.80	1.75	1.72
Adjusted Peak Converted Wet L		-	-	-	-	-	-
Optimum Moisture Content	%	19.5	20.5	19.5	20.5	19.0	17.5
		0.0%	0.5%	0.00/	0.5%	0.00/	0.00/
Moisture Variation Fron		2.0%	2.5%	2.0%	2.5%	2.0%	2.0%
Optimum Moisture Conte	-TIL	dry	dry	dry	dry	dry	dry
	%	95.0	97.5	97.0	95.0	95.0	96.5