

CIVIL GEOTECHNICAL SERVICES ABN 26 474 013 724

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

8th May 2019

Our Reference: 18797:NB488

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING ASPIRE – STAGE 21A (PLUMPTON)

Please find attached our Report No's 18797/R001 to 18797/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 January 2019.

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).

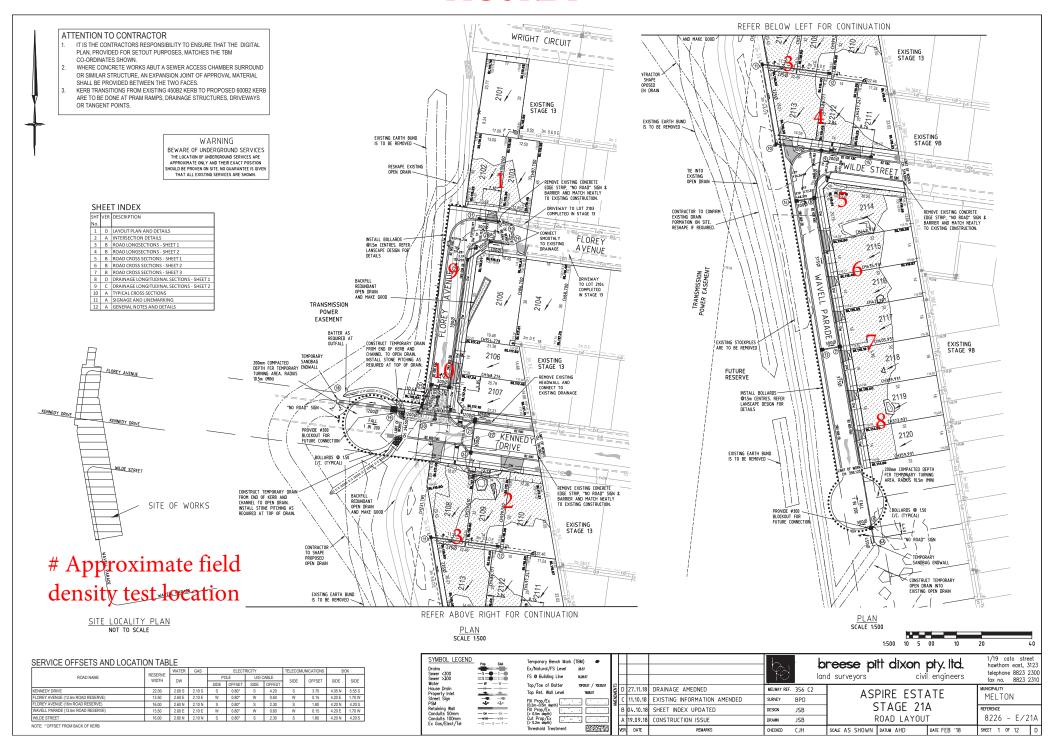
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1





COMPACTION ASSESSMENT

 CIVIL GEOTECHNICAL SERVICES
 Job No
 18797

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 18797/R001

 Date Issued
 08/08/2019

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested byWSProjectASPIRE - STAGE 21ADate tested11/01/19LocationPLUMPTONChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 09:45

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		1	22	3	4	-	-
Location		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	-	-
Field wet density	t/m³	1.81	1.77	1.98	1.97	-	-
Field moisture content	%	22.7	22.5	21.7	24.0	-	-

Test procedure AS 1289.5.7.1

Test No		1	22	3	4	-	-
Compactive effort				ndard			
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	-	-
Percent of oversize material	wet	0	0	0	0	-	-
Peak Converted Wet Density	t/m³	1.85	1.82	2.04	2.04	-	-
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	24.5	25.0	23.5	26.5	-	-

Moisture Variation From	2.0%	2.5%	2.0%	2.5%	-	-
Optimum Moisture Content	dry	dry	dry	dry		

Density Ratio (R _{HD})	%	97.5	97.0	97.0	97.0	-	-

Material description

No 1 - 22 Clay Fill



Approved Signatory: Justin Fry

AVRLOT HILF V1.10 MAR 13



COMPACTION ASSESSMENT

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested byWSProjectASPIRE - STAGE 21ADate tested11/01/19LocationPLUMPTONChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 09:45

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		5	6	-	-	-	-
Location		REFER TO FIGURE 1	REFER TO FIGURE 1				
Approximate depth below FSL							
Measurement depth	mm	175	175	-	-	-	-
Field wet density	t/m³	1.98	1.90	-	-	-	-
Field moisture content	%	22.2	25.9	-	-	-	-

Test procedure AS 1289.5.7.1

Test No		5	6	-	-	-	-
Compactive effort				Stan	ndard		
Oversize rock retained on sieve	mm	19.0	19.0	-	-	-	-
Percent of oversize material	wet	0	0	-	-	-	-
Peak Converted Wet Density	t/m³	2.00	1.95	-	-	-	-
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	24.0	28.5	-	-	-	-

Moisture Variation From	2.0%	2.0%	-	-	-	-
Optimum Moisture Content	dry	dry				

Density Ratio (R _{HD})	%	99.0	97.0	-	-	-	-

Material description

No 5 - 6 Clay Fill



Approved Signatory: Justin Fry

AVRLOT HILF V1.10 MAR 13



COMPACTION ASSESSMENT

 CIVIL GEOTECHNICAL SERVICES
 Job No
 18797

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 18797/R003

 Date Issued
 08/05/2019

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested byWSProjectASPIRE - STAGE 21ADate tested14/01/19LocationPLUMPTONChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 07:15

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		7	8	9	10	-	-
Location		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	-	-
Field wet density	t/m³	1.95	1.94	1.89	1.90	-	-
Field moisture content	%	24.1	24.6	26.5	20.7	-	-

Test procedure AS 1289.5.7.1

Test No		7	8	9	10	-	-
Compactive effort							
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	-	-
Percent of oversize material	wet	0	0	0	0	-	-
Peak Converted Wet Density	t/m³	1.96	1.95	1.90	1.90	-	-
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	26.5	27.0	29.0	23.0	-	-

Moisture Variation From	2.5%	2.5%	2.5%	2.5%	-	-
Optimum Moisture Content	dry	dry	dry	dry		

Density Ratio (R _{HD})	%	99.5	99.0	99.5	100.0	-	-

Material description

No 7 - 10 Clay Fill



Approved Signatory: Justin Fry

AVRLOT HILF V1.10 MAR 13