

## CIVIL GEOTECHNICAL SERVICES ABN 26 474 013 724

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

13th September 2017

Our Reference: 17509:NB029

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING ASPECT – STAGE 9, GREENVALE

Please find attached our Report No 17509/R001 which relates to the field density testing that was conducted at the filled allotments of the above subdivision. The level 1 inspections and associated field density testing was performed in early September 2017.

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.

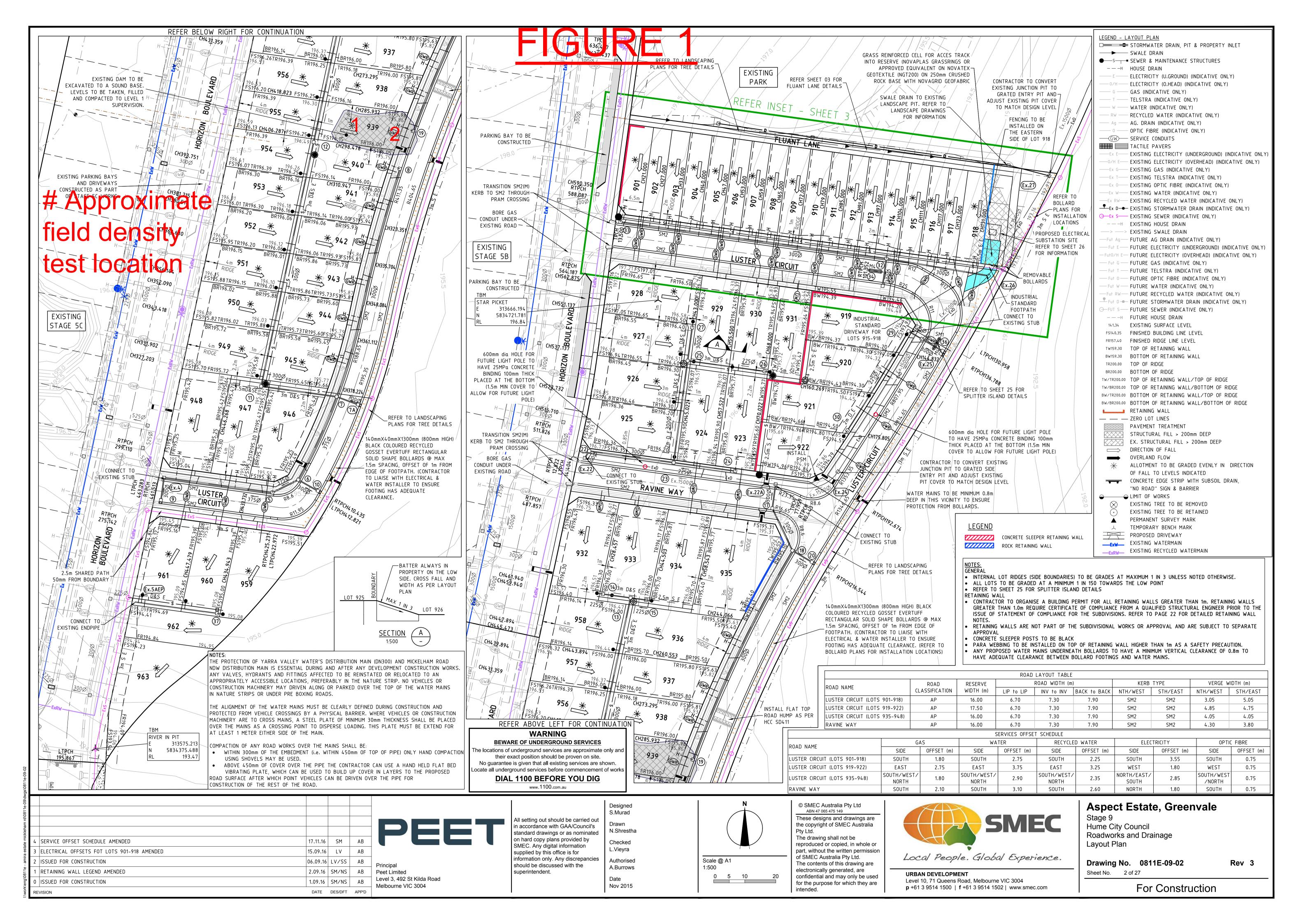
The site inspection and testing was performed by experienced geotechnicians from this office. Any areas that were deemed unsatisfactory were reworked and retested under their supervision. The testing was performed to the relevant Australian Standards and the accompanying test reports carry NATA endorsement. 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





## **COMPACTION ASSESSMENT**

Job No 17509 CIVIL GEOTECHNICAL SERVICES Report No 17509/R001 Date Issued 13/09/2017 6 - 8 Rose Avenue, Croydon 3136 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) Tested by SB Client Project ASPECT - STAGE 9 Date tested 08/09/17 Location **GREENVALE** Checked by JHF

Feature EARTHWORKS Layer thickness 300 mm Time: 09:00

Test No		1	2	-	-	-	-
Location		DEEED	DEEED				
		REFER	REFER				
		TO	TO				
		FIGURE 1	FIGURE 1				
Approximate depth below FSL							
FF :							
	mm	175	175	-	-	-	-
Measurement depth	mm t/m³	175 1.78	175 2.02	-	-	-	-
Measurement depth Field wet density				- - -	-	-	-
Measurement depth Field wet density Field moisture content Test procedure AS 1289.5.7.1	t/m³	1.78 34.4	2.02 21.2	-	-	-	-
Measurement depth Field wet density Field moisture content  Test procedure AS 1289.5.7.1 Test No	t/m³	1.78	2.02	-	-	-	-
Measurement depth Field wet density Field moisture content  Test procedure AS 1289.5.7.1  Test No  Compactive effort	t/m³ %	1.78 34.4	2.02 21.2	- - - Star	-	-	-
Measurement depth Field wet density Field moisture content  Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve	t/m³ % mm	1.78 34.4 1	2.02 21.2 2 19.0	-	-	-	-
Measurement depth Field wet density Field moisture content  Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material	t/m³ % mm wet	1.78 34.4 1 19.0 0	2.02 21.2 2 19.0 0	- - Star -	- - ndard -	-	-
Measurement depth Field wet density Field moisture content  Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density	t/m³ % mm wet t/m³	1.78 34.4 1	2.02 21.2 2 19.0	- - Star - -	-	-	- - -
Measurement depth Field wet density Field moisture content  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	t/m³ % mm wet t/m³ t/m³	1.78 34.4 1 19.0 0 1.86	2.02 21.2 2 19.0 0 1.98	- - Star -	- - ndard - -	- - - -	-
Measurement depth Field wet density Field moisture content  Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density	t/m³ % mm wet t/m³	1.78 34.4 1 19.0 0	2.02 21.2 2 19.0 0	- - Star - - -	- - ndard - - -	- - - - -	
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Material description

No 1 - 2 Clay Fill



July Jz

Approved Signatory : Justin Fry

AVRLOT HILF V1.10 MAR 13