

CIVIL GEOTECHNICAL SERVICES ABN 26 474 013 724

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

21st July 2014

Our Reference: 14171:JHF807

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs.

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING AMRSTRONG, MT DUNEED (STAGE 10) – MOUNT DUNEED

Please find attached our Report No 14171/R001 that relates 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 mid May 2014.

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 inspections and testing was performed by an experienced geotechnician 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

Justin Fry

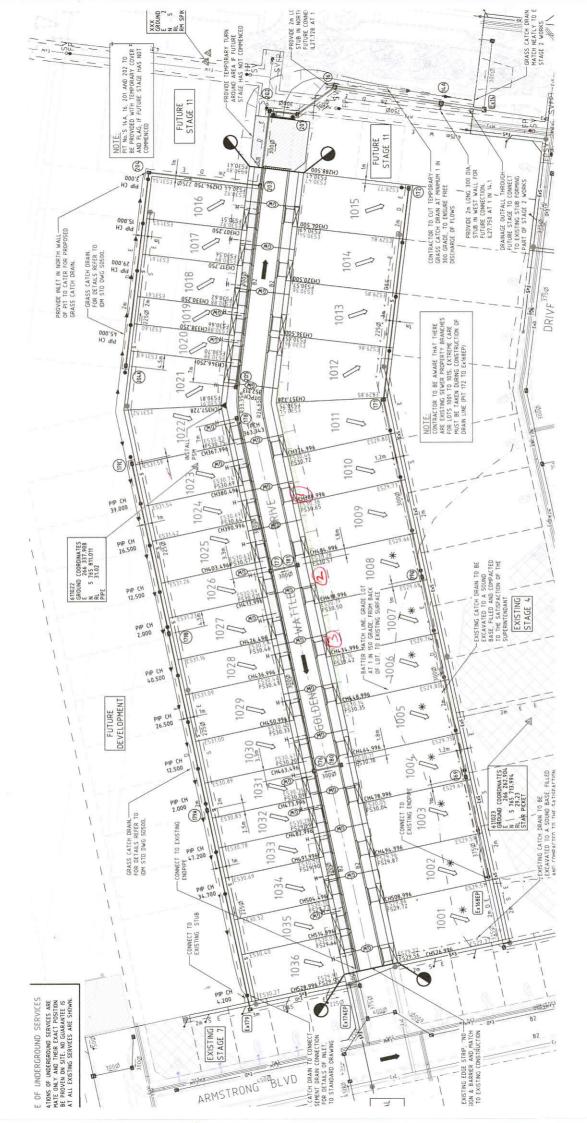


FIGURE 7



COMPACTION ASSESSMENT

 CIVIL GEOTECHNICAL SERVICES
 Job No
 14171

 6 - 8 Rose Avenue, Croydon 3136
 14171/R001

 Date Issued
 30/05/14

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested byDKProjectARMSTRONG, MT DUNEED - STAGE 10Date tested19/05/14LocationMOUNT DUNEEDChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 11:46

Test No		1	2	3	-	-	-
Location		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
Approximate depth below FSL							
Measurement depth	mm	175	175	175	-	-	-
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Field wet density	t/m³	2.02	1.92	1.93	-	-	-
· · · · · · · · · · · · · · · · · · ·			1.92 24.4	1.93 24.9	-	-	-
Field wet density	t/m³	2.02	-			-	+
Field wet density Field moisture content	t/m³	2.02	-			-	+
Field wet density Field moisture content Test procedure AS 1289.5.7.1	t/m³	2.02	24.4	24.9	-		-
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort	t/m³	2.02	24.4	24.9	-		-
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve	t/m³ %	2.02 23.1	24.4	24.9 3 Stan	- dard	-	-
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	2.02 23.1	24.4	24.9 3 Stan 19.0	- dard -	-	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No	t/m³ % mm wet	2.02 23.1	24.4 2 19.0 0	24.9 3 Stan 19.0 0	- dard - -	-	-
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	2.02 23.1	24.4 2 19.0 0	24.9 3 Stan 19.0 0	- dard - -	- - -	-

Material description

No 1 - 3 Clay Fill



July Jo

Approved Signatory: Justin Fry

AVRLOT HILF V1.10 MAR 13