

CIVIL GEOTECHNICAL SERVICES ABN 26 474 013 724

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

24th September 2014

Our Reference: 14172:JHF830

Georgiou Pty Ltd 420 St Kilda Road MELBOURNE VIC 3004

Dear Sirs,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING LIVINGSTON ESTATE (STAGE 10) – CRANBOURNE

Please find attached our Report No 14172/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 late May 2014.

The inspection 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 supervision 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 Georgiou during the aforementioned period.

When interpreting the requirements of AS 2870 - Residential Slabs and Footings (2011), we are of the view that the bulk fill materials that have been placed across the filled allotments by Georgiou 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 Frv





COMPACTION ASSESSMENT

 CIVIL GEOTECHNICAL SERVICES
 Job No
 14172

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 14172/R001

 Client
 GEORGIOU PTY LTD (SOUTH MELBOURNE)
 Tested by
 KC

ClientGEORGIOU PTY LTD (SOUTH MELBOURNE)Tested byKCProjectLIVINGSTON ESTATE - STAGE 10Date tested20/05/14LocationCRANBOURNEChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 10:07

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		1	2	-	-	-	-
Location		REFER TO FIGURE 1	REFER TO FIGURE 1				
Approximate depth below FSL							
Measurement depth	mm	175	175	-	-	-	-
Field wet density	t/m³	1.83	1.81	-	-	-	-
Field moisture content	%	25.9	25.7	-	-	-	-

Test procedure AS 1289.5.7.1

Test No		1	2	-	-	-	-
Compactive effort		Standard					
Oversize rock retained on sieve	mm	19.0	19.0	-	-	-	-
Percent of oversize material	wet	0	1	-	-	-	-
Peak Converted Wet Density	t/m³	1.78	1.77	-	-	-	-
Adjusted Peak Converted Wet Density	t/m³	1	1.77	-	-	-	-
Optimum Moisture Content	%	27.0	27.0	-	-	-	-

Moisture Variation From	1.5%	1.5%	-	-	-	-
Optimum Moisture Content	dry	dry				

Density Ratio (R _{HD})	%	103.0	102.5	-	-	-	-

Material description

No 1 - 2 Clay Fill



Approved Signatory: Justin Fry

AVRLOT HILF V1.10 MAR 13