

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

29th June 2012

Our Reference: 11420:JHF613

Peet Cranbourne Central Sydicate Limited Level 3, 492 St Kilda Road MELBOURNE VIC 3004

Dear Sirs,

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

Please find attached our Report No 11420AA 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 November 2011.

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. The approximate locations of the field density tests can be seen on the attached plan (Figure 1).

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 Fry



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COMPACTION ASSESSMENT

- 8 Rose Avenue, Croydon 3136 Client PEET CRANBOURNE CENTRAL SYNDICATE LIMITED (MELBOURNE)							Date Issued Tested by	12/12/11 KC
Project	LIVINGSTON ESTATE - STAGE 1						Date tested	17/11/11
Location							Checked by JHF	
								-
Feature	EARTHWORKS		<i>Layer thickness</i> 200 mm				<i>Time:</i> 12:34	
Test proce	dure AS 1289.2.1.1 & 5.8.	1						
Test No			1	2	-	-	-	-
Location			REFER TO FIGURE 1	REFER TO FIGURE 1				
Approximate	e depth below FSL		-	-	-	-	-	-
Measureme		тт	175	175	-	-	-	-
Field wet density		t∕m³	1.77	1.77	-	-	-	-
Field moistu Test proce	dure AS 1289.5.7.1	%	36.8	39.8	-	-	-	-
Test No			1	2	-	-	-	-
Compactive effort			Standard			dard		
Oversize rock retained on sieve		тт	19.0	19.0	-	-	-	-
Percent of c	oversize material	wet	0	0	-	-	-	-
	erted Wet Density	t∕m³	1.86	1.87	-	-	-	-
Adjusted Pe	eak Converted Wet Density	t∕m³	-	-	-	-	-	-
Optimum M	oisture Content	%	30.5	32.0	-	-	-	-
Moi	sture Variation From		6.5%	8.0%	-	-	-	-
Optimum Moisture Content			wet	wet				
0,00							I	
Density Ra	tio(R _{HD})	%	95.0	95.0	-	-	-	-
Material des								

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Approved Signatory : Justin Fry