CIVILTEST ALBURY WODONGA

Soils Engineering Laboratory

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21.10.2011 Report No. : 11CT853/79

Arbor Estates Pty Ltd C/- EDM Group P O Box 317 Wodonga, Vic, 3689

Re: Site Classification for proposed residence Lot 79 Silky Oak Estate, Stage 6 Wodonga, Vic, 3690

An investigation was carried out on 12.9.2011 to determine a soil classification for the above site. The site is moderately sloping and lightly grassed. The surface drainage on site is good.

FIELD RESULTS

Materials encountered during the field investigation are described in the attached investigation log and in general consists of controlled fill overlaying silty and sandy clays of low to high plasticity.

SITE CLASSIFICATION

Based on the results of the investigation the site has been classified as Class "M" Moderately Reactive site in accordance with AS 2870-2011 Residential Slabs and Footings - Site Classification by surface Movement Calculation.

Recommendations for this Site:

The footings of a conventional slab may be designed for a Class "M" site classification with the external beams founded a minimum of 250mm below existing surface level.

If piers, stumps or strip footings are used on this site they should be founded a minimum of 500mm below existing surface level.

The site should be stripped of all vegetation and topsoil, with any areas of soft, loose or wet material selectively excavated to provide a firm, working base.

The allowable bearing pressure for this site is 150kPa from 250mm in depth.

GENERAL NOTE : FILL MATERIAL

Some building sites may contain areas of fill, which cannot be visually identified at the time of investigation. It is also often difficult to determine fill from natural insitu materials during a site investigation borehole. If fill is encountered during excavation of footings, and it is not described in the field investigation log, further advice must be obtained.

Where controlled (compacted) fill is encountered, the amount of compacted fill allowable is up to 800mm of "sand" fill or 400mm of "other" fill. AS 2870 - 2011 provides details of additional construction requirements for controlled fill sites.

P.C. Vella

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INVESTIGATION LOG

REPORT NO: 11CT853

Borehole/Trench No: 1

SOILS ENGINEERING LABORATORY

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Client: Arbor Estates Pty Ltd		Date Logged: 12/9/11					
Investigation For: Site Classification		Logged By: PJ					
Location: Lot 79 Silky Oak Estate, Stage 6, Wodonga		Checked By: PCV					
	Trench Location: Centre of Lot	Date: 22/9/2011					
Method: Hand Auger Backhoe ZDrill Rig		Other	Alignment:90°				
DEPTH mm	MATERIAL DESCRIPTION & CLASSIFICATION	MOISTURE CONDITION	CONSIST. DENSITY INDEX	VS kPa	SAMPLE TAKEN	REMARKS	
	Silty Sandy CLAY, dark brown	Moist	Stiff			FILL	
	Fine to coarse grained						
300	Medium plasticity, trace gravel						
	Silty Sandy CLAY, brown		Very				
	Fine to coarse grained		Stiff				
	High plasticity, trace gravel						
700							
700	Silty Sandy CLAY, grey-brown						
	Fine to coarse grained						
1000	High plasticity, trace gravel to 20mm						
	Gravelly Sandy CLAY, brown		Stiff				
1200	Fine to coarse grained, medium plasticity gravel to 20mm						
	Refusal at 1.2m						
	<u> </u>						
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	<u> </u>						
	ISS - Shrink Swell Index LL -	Liquid Limit	LS - Line	ar Shrin	kage		
ISS - Shrink Swell Index LL - Liquid Limit LS - Linear Shrinkage DRAINAGE: -General Good Fair Poor Free Water Swampy Subject to Flooding							
TOPOGRA	NPHY:						
-General Flat Undulating Hilly							
-Local						eh Siohe	
W	- Water Level D - Water Inflow U50	-Disturbed Sample					
< MD	- Water Inflow U50 - Medium Dense CBR*	-Undisturbed Sample 50mm dia -9kg Scala Dynamic Cone					
Vst	- Very Stiff MC	-Moisture Content Taken					