CIVILTEST ALBURY WODONGA

Soils Engineering Laboratory

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21.10.2011

Report No.: 11CT853/72

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

Re: Site Classification for proposed residence

Lot 72 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 clayey sands 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 300mm 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 125kPa from 300mm 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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SOILS ENGINEERING LABORATORY

INVESTIGATION LOG

Vst

- Very Stiff

Borehole/Trench No: 1

Page : 1 of 1

REPORT NO: 11CT853							
Client: Ar	bor Estates Pty Ltd	Date	e Logged: 1	2/9/11			
Investigat	ion For: Site Classification	Log	Logged By: PJ				
Location:	Lot 72 Silky Oak Estate, Stage 6, Wodonga	Che	Checked By: PCV				
Borehole/Trench Location: Centre of Lot		Date	e: 22/9/201 1				
Method: Hand Auger Backhoe Drill Rig		g Other	Other Alignment:90°				
DEPTH mm	MATERIAL DESCRIPTION & CLASSIFICATION	MOISTURE CONDITION	CONSIST. DENSITY INDEX	VS kPa	SAMPLE TAKEN	REMARKS	
	Silty Clayey SAND, dark brown	Moist	Medium			FILL	
250	Fine to coarse grained, low plasticity, trace gravel		Dense				
400	Silty Clayey SAND, brown Fine to coarse grained, low plasticity, trace gravel						
400	Gravelly Silty SAND, brown						
650	Fine to coarse grained, low plasticity Sandy CLAY, brown		\/om/				
	Fine to medium grained High plasticity		Very Stiff				
	<u> </u>						
	_						
1400	Gravelly Sandy CLAY, grey-brown						
	Fine to coarse grained						
	High plasticity						
1800	Refusal at 1.8m						
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	ISS - Shrink Swell Index LL	 - Liquid Limit	LS - Line	ar Shrin	kage		
DRAINAGE: -General Good Fair Poor Free Water Swampy Subject to Flooding							
TOPOGRAPHY:							
-General Flat Undulating Hilly Hilly							
-Local Flat Moderate Slope Dip Valley High Flat Low Flat Crest Steep Slope							
W	- Water Level D		-Disturbed Sample				
< MD	- Water Inflow U50 - Medium Dense CBR*		-Undisturbed Sample 50mm dia -9kg Scala Dynamic Cone				

MC

-Moisture Content Taken