

# CIVILTEST ALBURY WODONGA

## Soils Engineering Laboratory

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21.10.2011

Report No. : 11CT853/84

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

**Re: Site Classification for proposed residence  
Lot 84 Silky Oak Estate, Stage 6  
Wodonga, Vic, 3690**

An investigation was carried out on 21.9.2011 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 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 125kPa 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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Form CT132/3

## SOILS ENGINEERING LABORATORY

Borehole/Trench No: 1

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### INVESTIGATION LOG REPORT NO: 11CT853

Client: <b>Arbor Estates Pty Ltd</b>	Date Logged: <b>21/9/11</b>
Investigation For: <b>Site Classification</b>	Logged By: <b>PJ</b>
Location: <b>Lot 84 Silky Oak Estate, Stage 6, Wodonga</b>	Checked By: <b>PCV</b>
Borehole/Trench Location: <b>Centre of Lot</b>	Date: <b>22/9/2011</b>

Method:  Hand Auger  Backhoe  Drill Rig  Other      Alignment: **90°**

DEPTH mm	MATERIAL DESCRIPTION & CLASSIFICATION	MOISTURE CONDITION	CONSIST. DENSITY INDEX	VS kPa	SAMPLE TAKEN	REMARKS
250	Sandy CLAY, brown	Moist	Stiff			FILL
	Fine to coarse grained, medium plasticity					
	Gravelly Sandy CLAY, brown Fine to coarse grained Medium plasticity, gravel to 20mm					
700	Clayey GRAVEL, brown		Medium Dense			
	Fine to coarse grained, low plasticity Gravel to 20mm					
900	Gravelly Sandy CLAY, brown		Stiff			
	Fine to coarse grained, medium plasticity gravel to 15mm					
1400	Sandy CLAY, brown		Medium Dense			
	Fine to coarse grained Medium plasticity					
1600	Clayey SAND, yellow-brown		Very Stiff			
	Fine to medium grained, low plasticity					
1900	Sandy CLAY, red-brown		Medium Dense			
	Fine to medium grained High plasticity					
2100	Clayey SAND, brown					
	Fine to coarse grained, low plasticity					
	Bore Terminated at 2.1m					

ISS - Shrink Swell Index      LL - Liquid Limit      LS - Linear Shrinkage

**DRAINAGE:**      -General    Good  Fair  Poor  Free Water  Swampy  Subject to Flooding

**TOPOGRAPHY:**

-General    Flat  Undulating  Hilly   
 -Local      Flat  Moderate Slope  Dip  Valley  High Flat  Low Flat  Crest  Steep Slope

----W----    - Water Level <-----    - Water Inflow MD            - Medium Dense Vst            - Very Stiff	D              -Disturbed Sample U50            -Undisturbed Sample 50mm dia CBR*          -9kg Scala Dynamic Cone MC              -Moisture Content Taken	
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