

# CIVILTEST ALBURY WODONGA

## Soils Engineering Laboratory

16 Kane Road, Wodonga - Postal Address P.O Box 876, Wodonga 3689

Telephone 0260 243960 Mobile 0407 572489 Facsimile 0260 567017

13.10.2010

Report No. : 10CT731/33

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

**Re: Site Classification for proposed residence  
Lot 33 Silky Oaks Estate  
Wodonga, Vic, 3690**

An investigation was carried out on 1.10.2010 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 silty 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 2870-1996 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 100kPa 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 - 1996 provides details of additional construction requirements for controlled fill sites.



P.C. Vella

# CIVIL TEST ALBURY WODONGA

Form CT132/3

## SOILS ENGINEERING LABORATORY

Borehole/Trench No: 1

Page : 1 of 1

### INVESTIGATION LOG

REPORT NO: 10CT731

Client: <b>Arbor Estates Pty Ltd</b>	Date Logged: <b>1/10/2010</b>
Investigation For: <b>Site Classification</b>	Logged By: <b>PV</b>
Location: <b>Lot 33 Silky Oak Estate, Wodonga</b>	Checked By: <b>PCV</b>
Borehole/Trench Location: <b>Centre of Lot</b>	Date: <b>4/10/2010</b>

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

DEPTH mm	MATERIAL DESCRIPTION & CLASSIFICATION	MOISTURE CONDITION	CONSIST. DENSITY INDEX	CBR *	SAMPLE TAKEN	REMARKS
200	Silty SAND, dark brown Fine to medium grained, low plasticity	Moist	Medium Dense			TOPSOIL
	Silty SAND, brown Fine to coarse grained Low plasticity					
800	Clayey SAND, brown Fine to coarse grained, low plasticity					
1000	Sandy CLAY, yellow-brown Fine to coarse grained Medium plasticity		Firm			
1700	Sandy CLAY, yellow-brown Fine to coarse grained High plasticity		Stiff			
2200	Bore Terminated at 2.2m					

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