

# CIVILTEST ALBURY WODONGA

## Soils Engineering Laboratory

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21.03.2011

Report No. : 11CT207/42

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

**Re: Site Classification for proposed residence  
Lot 42 Silky Oaks Estate  
Wodonga, Vic, 3690**

An investigation was carried out on 02.02.2011 to determine a soil classification for the above site. The site is essentially flat 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: 11CT207

Client: <b>Arbor Estates</b> Investigation For: <b>Site Classification</b> Location: <b>Lot 42 Silty Oaks Estate, Wodonga</b> Borehole/Trench Location: <b>Centre of Lot</b>	Date Logged: <b>02/02/2011</b> Logged By: <b>PJ &amp; JJ</b> Checked By: <b>PCV</b> Date: <b>10/03/2011</b>
Method: <input type="checkbox"/> Hand Auger <input type="checkbox"/> Backhoe <input checked="" type="checkbox"/> Drill Rig <input type="checkbox"/> Other	Alignment: <b>90°</b>

DEPTH mm	MATERIAL DESCRIPTION & CLASSIFICATION	MOISTURE CONDITION	CONSIST. DENSITY INDEX	VS kPa	SAMPLE TAKEN	REMARKS
300	Gravelly Sandy CLAY, dark brown Fine to coarse grained Medium-high plasticity	Moist	Stiff			FILL
500	Sandy CLAY, brown Fine to medium grained, medium plasticity					
900	Gravelly Clayey SAND, brown Fine to coarse grained Low plasticity		Medium Dense			
1400	Sandy CLAY, brown Fine to medium grained High plasticity		Very Stiff			
2100	Silty CLAY, brown Fine to medium grained High 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