

CIVILTEST ALBURY WODONGA

Soils Engineering Laboratory

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19.4.2012

Report No. : 12CT257/38

JMP Developments Pty Ltd
C/- RHPM
P O Box 1210
Wodonga, Vic, 3689

**Re: Site Classification for proposed residence
Lot 38 Riverside Estate, Stage 2
Killara, Vic, 3691**

An investigation was carried out on 18.4.2012 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 some minor landscaping 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 external footings for a waffle pod slab may be designed for a Class "M" site classification with the external beams founded a minimum of 200mm 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 200mm 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

INVESTIGATION LOG REPORT NO: 12CT257

Borehole/Trench No: 1

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Client: JMP Developments Pty Ltd Investigation For: Site Classification Location: Lot 38 Riverside Estate, Stage 2, Killara Borehole/Trench Location: Centre of Lot	Date Logged: 18/4/2012 Logged By: PJ Checked By: PCV Date: 18/4/2012
Method: ☐ Hand Auger ☐ Backhoe ☒ Drill Rig ☐ Other	
Alignment: 90°	

DEPTH mm	MATERIAL DESCRIPTION & CLASSIFICATION	MOISTURE CONDITION	CONSIST. DENSITY INDEX	VS kPa	SAMPLE TAKEN	REMARKS		
150	Sandy CLAY, orange-brown	Moist	Very			Landscaping		
	Fine to medium grained, medium plasticity		Stiff			Fill		
250	Clayey SAND, dark brown		Medium Dense					
	Fine to medium grained, low plasticity							
500	Gravelly Clayey SAND, brown							
	Fine to coarse grained, low plasticity							
750	Silty Clayey SAND, brown							
	Fine to medium grained, low plasticity							
1400	Silty Sandy CLAY, brown		Very Stiff					
	Fine to medium grained High plasticity							
2100	Silty Clayey SAND, grey-brown		Medium Dense					
	Fine to medium 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