# CIVILTEST ALBURY WODONGA

**Soils Engineering Laboratory**

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18.10.2012

**Report No. : 12CT999/72**

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

**Re: Site Classification for proposed residence**
**Lot 72 Riverside Estate, Stage 3**
**Killara, Vic, 3691**

An investigation was carried out on 11.10.2012 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 sandy clays and clayey sands 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 250mm 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.



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Form CT132/3

## SOILS ENGINEERING LABORATORY

Borehole/Trench No: 1

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**INVESTIGATION LOG**

**REPORT NO: 12CT999**

Client: **JMP Developments Pty Ltd** | Date Logged: **11/10/2012**

Investigation For: **Site Classification** | Logged By: **PJ**

Location: **Lot 72 Riverside Estate, Stage 3, Killara** | Checked By: **PCV**

Borehole/Trench Location: **Centre of Lot** | Date: **15/10/2012**

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

| DEPTH mm | MATERIAL DESCRIPTION & CLASSIFICATION | MOISTURE CONDITION | CONSIST. DENSITY INDEX | VS * | SAMPLE TAKEN | REMARKS |
|---|---|---|---|---|---|---|
| | Silty SAND, dark brown<br>Fine to coarse grained, low plasticity | Moist | Medium Dense | | | Topsoil |
| 250 | Silty SAND, brown<br>Fine to coarse grained, low plasticity | | | | | |
| 450 | Clayey SAND, brown<br>Fine to coarse grained, low plasticity | | | | | |
| 600 | Sandy CLAY, brown<br>Fine to coarse grained, low-medium plasticity | | Firm | | | |
| 800 | Sandy CLAY, brown<br>Fine to medium grained<br>Medium-high plasticity | | Stiff | | | |
| 1100 | Silty Sandy CLAY, brown<br>Fine to coarse grained<br>Low-medium plasticity, trace gravel | | Firm | | | |
| 1700 | Clayey SAND, brown<br>Fine to coarse grained<br>Low plasticity | | Medium Dense | | | |
| 2100 | 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