



MAP UNIT Quaternary basalt, cap

SYMBOL Qbc

PROFILE DESCRIPTION

0-15 cm Dark reddish brown (5YR 3/4) clay loam; moderate medium crumb structure; friable when moist and dry; 10% of soil volume as stones of parent material (floaters) to 15 cm diameter; pH 6½;

Diffuse transition to:

15-50 cm Reddish brown (5YR 4/8) medium clay; strong fine subangular blocky structure; friable when moist; pH 6;

Giving way to decomposing parent material

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GENERAL DESCRIPTION

This map unit is comprised of a remnant cap of basalt overlying Ordovician sediments and is characterised by a shallow solum with a red gradational soil with weakly developed textural duplex characteristics.

*The land has been rock picked in the past and is likely to be cropped for potatoes in 1979.

Map Unit is 0.8 % study area Ref. Plate 3

| PARENT MATERIAL | | |
|-----------------------------|-------------------|----|
| Quaternary basalt (in situ) | | |
| Depth to rock | 50 | cm |
| Rock outcrop | 0 | % |
| Surface stones | 0* | % |
| Landslip risk | Nil | |
| Shrink/swell potential | Moderate | |
| Northcote code & SCS Ext. | +Gn 3.12 – 4/3/15 | |

| LANDFORM | | | |
|---------------------|--------------|----|--|
| NW – SE ridge | | | |
| Slope-common | 3 | % | |
| - range | 0-5 | % | |
| Flood risk | Nil | | |
| Profile drainage | Well drained | | |
| Seasonal watertable | Nil | | |
| Unified soil group | A | | |
| | B | CL | |

EROSION HAZARD

Low; however batters will slump readily

| | | | |
|--------------------------|-----------|-----------------|-------------------|
| NATIVE VEGETATION | Manna gum | LAND USE | Grazing, cropping |
|--------------------------|-----------|-----------------|-------------------|

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Capability of the land to support various activities

Capability of the land to support subdivision

| ACTIVITY | RATING | MAJOR LIMITING FEATURES OF THE LAND |
|-----------------------|-----------|--|
| Building foundations | Good | Shrink-swell; unified soil group |
| Absorption fields | Good | (pollution of groundwater) |
| Secondary roads | Fair | Depth to rock; unified soil group |
| Gravel roads | Fair | Unified soil group; load bearing capacity when wet |
| Access tracks | Poor | Load bearing capacity when wet (boggy); unified soil group |
| Shallow excavations | Good | Slope |
| Farm dams | Very poor | Depth to rock; high percolation rate |
| Sewage lagoons | Poor | Depth to rock; high percolation rate |
| Intensive cultivation | Very good | |
| Path & trails | Very good | |

| SUBDIVISION TYPE | RATING | MAJOR LIMITING ACTIVITIES |
|---|--------|-----------------------------|
| Urban (sewered) | Good | |
| Bush Blocks (4 ha) | Fair | Gravel roads; access tracks |
| Small Farmlets (4 ha) | Poor | Farm dams; access tracks |
| Large Farmlets (16 ha) | Fair | Farm dams; access tracks |
| Effect of subdivision on the town water supply | | |
| There are no features of this land which pose a specific hazard to water supply, other than the close proximity of the map unit to the Cosgrave Reservoir | | |