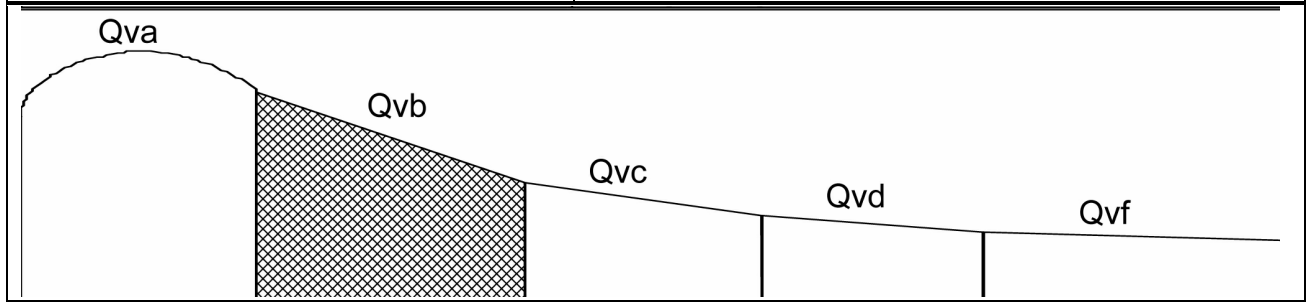


MAP UNIT SYMBOL: Qvb

Area: 661 ha

MAP UNIT: Quaternary volcanic, steep slope



A. GENERAL DESCRIPTION

A detailed site description was not completed for the volcanic steep slopes as it only makes up a small percentage of the Shire. It occurs as the sideslopes of Mount Kerrie in the western part of the Shire. The common soil type has a reddish gradational profile with a clay loam and fine sandy clay loam topsoil, grading to a sandy clay subsoil. The topsoil tends to be acidic.

SITE CHARACTERISTICS

Parent Material Age:	Quaternary	Depth to Seas. Watertable:	>5.0 m
Parent Material Lithology:	Volcanic	Flooding Risk:	Nil
Landform Pattern:	Steep hills/steep low hills	Drainage:	Well drained
Landform Element:	Hillslope	Rock Outcrop:	0-20%
Slope a) common:	36%	Depth to Hard Rock:	1.0 - 2.0 m
Slope b) range:	33-56%	Present Land Use:	Grazing
Potential Recharge to Groundwater:	High		
Major Native Vegetation Species:	Blackwood, Long-leaved Peppermint, Manna gum, Narrow-leaved Peppermint		

LAND DEGRADATION

Land Degradation	Water Erosion		Wind Erosion	Mass Movement	Salting	Acidification
	sheet/rill	gully				
Susceptibility	Very high	Moderate	Moderate	High	Low	Low
Incidence	Low	Low	Low	Low	Nil	Not available

B. SOIL PROFILE

PROFILE DESCRIPTION

A11 0-140 mm	Dark brown (7.5YR3/2) clay loam with fine sand, moderate subangular blocky structure, rough fabric, pH5.5. Clear transition to:
A12 140-280 mm	Brown (7.5YR4/4) fine sandy clay loam, moderate subangular blocky structure, rough fabric, pH6.0. Clear transition to:
B21 280-410 mm	Yellowish red (5YR4/6) sandy clay, moderate subangular blocky structure, rough fabric, pH6.5. Gradual transition to:
B22 410-800+ mm	Reddish brown (5YR4/4) sandy clay, strong subangular blocky structure, rough fabric, pH 6.5 .

CLASSIFICATION

Factual Key:	Gn4.12
Australian Soil Classification:	Haplic, ?, Red Dermosol, (Confidence level 4); medium, non-gravelly, clay loamy/clayey, moderate
Unified Soil Group:	Not available

INTERPRETATION OF LABORATORY ANALYSIS*

Horizon	pH (H ₂ O)	% Gravel	E.C. (salts)	Nutrient Status	P	K	Al	Organic matter	Dispersibility
A11	5.5	NA	NA	NA	NA	NA	NA	H	NA
A12	6.0	NA	NA	NA	NA	NA	NA	M	NA
B21	6.5	NA	NA	NA	NA	NA	NA	VL	NA
B22	6.5	NA	NA	NA	NA	NA	NA	VL	NA

VL: Very Low L: Low M: Moderate H: High VH: Very High D: Deficient S: Satisfactory
 T: Potentially Toxic NA: Not Available * see appendix D for analytical results ** Strongly Acidic

SOIL PROFILE CHARACTERISTICS:

Permeability Rapid (estimate)
Available Water Capacity: Moderate (113 mm H₂O)
Linear Shrinkage (B horizon): Low (estimate)

C. LAND CAPABILITY ASSESSMENT

Land Use	Class	Major Limiting Feature(s)/Land Use
Agriculture	C ₂ T ₅ S ₅	Slope, susceptible to sheet and rill erosion
Effluent Disposal (septic tanks)	5	Slope
Farm Dams	5	Slope, permeability
Building Foundations slabs	5	Slope
stumps/footings	4	Slope, slope failure risk