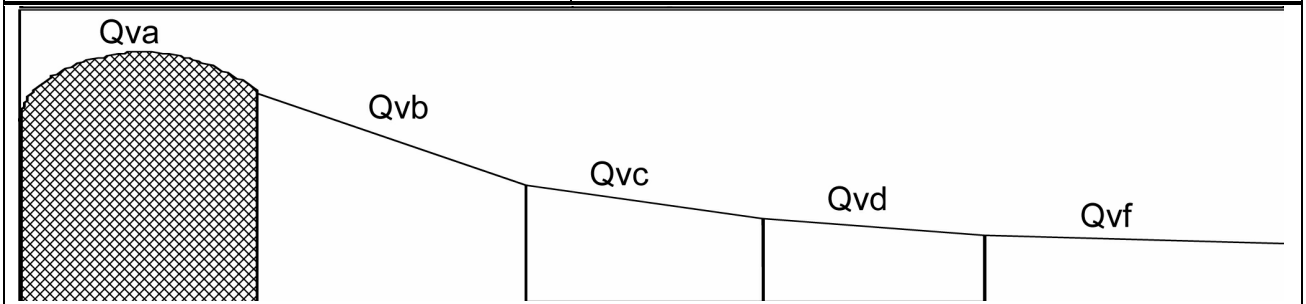


MAP UNIT SYMBOL: Qva

Area: 420 ha

MAP UNIT: Quaternary volcanic, steep crest



A. GENERAL DESCRIPTION

A detailed site description was not completed for this component as it only makes up a very small portion of the Shire. The major steep crests are on Mount Kerrie, in the west of the Shire and Melbourne Hill, just south of Lancefield. The soils are quite variable. The major soil type is a brown gradational soil with a silty loam topsoil and a silty clay loam subsoil. The rock outcrop is variable, although it is commonly around 10-20%.

SITE CHARACTERISTICS

Parent Material Age:	Quaternary	Depth to Seas. Watertable:	>5.0 m
Parent Material Lithology:	Volcanic	Flooding Risk:	Nil
Landform Pattern:	Steep hills/rolling hills	Drainage:	Well drained
Landform Element:	Hillcrest	Rock Outcrop:	10-20%
Slope a) common:	2%	Depth to Hard Rock:	>0.5 m
Slope b) range:	0-2%	Present Land Use:	Grazing
Potential Recharge to Groundwater: High			
Major Native Vegetation Species: Manna Gum, Narrow-leaved Peppermint, Blackwood, Bracken Fern			

LAND DEGRADATION

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

B. SOIL PROFILE

PROFILE DESCRIPTION

A1	0-190 mm	Very dark grey (5YR3/1) silty loam, weak subangular blocky structure, rough fabric, pH 5.0. Gradual transition to:
B2	190-400 mm	Brown (7.5YR4/4) silty clay loam, weak subangular blocky structure, rough fabric, medium gravel fragments are common, pH 6.0. Clear transition to:
C	400 mm+	Partially weathered rock.

CLASSIFICATION

Factual Key:	Gn2.41 (major), Gn4.31, Um1, (minor)
Australian Soil Classification:	Haplic, ?, Brown Kandosol, (Confidence level 4); medium, non gravely, silty/silty, shallow
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
A1	5.0**	<2	NA	NA	NA	NA	NA	H	NA
B2	6.0	10-20	NA	NA	NA	NA	NA	L	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: Low (95 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 ₁ S ₄	Available water holding capacity, susceptibility to wind erosion, depth to hard rock
Effluent Disposal (septic tanks)	4	Depth to hardrock
Farm Dams	5	Suitability of subsoil, depth to hardrock, permeability
Building Foundations slabs	3	Stone and boulder content
stumps/footings	3	Stone and boulder content