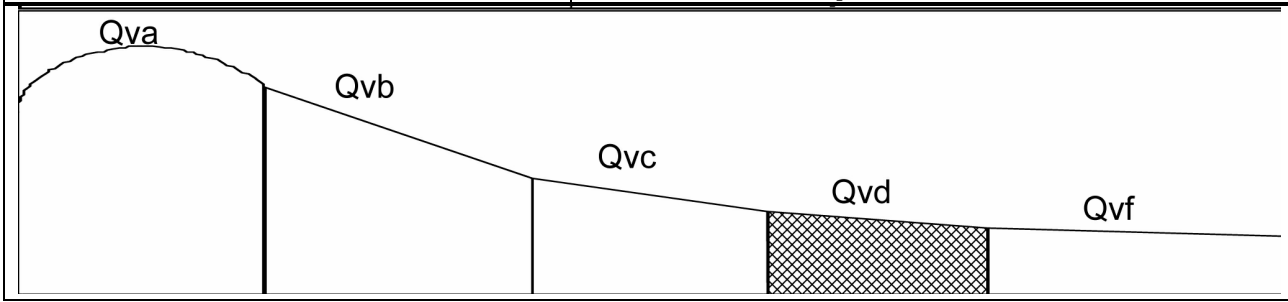
MAP UNIT SYMBOL: **Qvd** Area: 9105 ha	MAP UNIT: **Quaternary volcanic, moderate slope**



A. GENERAL DESCRIPTION

This component occurs between Romsey and Lancefield extending to the western boundary of the Shire around Mt Kerrie, and south of Springfield. The soils are often yellow, red or brown duplex. The structured clay loam topsoil overlies the clayey subsoil.

SITE CHARACTERISTICS

Parent Material Age:	Quaternary	**Depth to Seas. Watertable:**	>2.0 m
Parent Material Lithology:	Volcanic	**Flooding Risk:**	Nil
Landform Pattern:	Rolling low hills	**Drainage:**	Moderately well drained
Landform Element:	Hillslope	**Rock Outcrop:**	0-2%
Slope a) common:	18%	**Depth to Hard Rock:**	1.0 - 2.0 m
Slope b) range:	11-20%	**Present Land Use:**	Grazing, partly forested

Potential Recharge to Groundwater: Low

Major Native Vegetation Species: Manna Gum, Narrow-leaved Peppermint, Silver Wattle, Bracken Fern

LAND DEGRADATION

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

B. SOIL PROFILE

PROFILE DESCRIPTION

A11 0-220 mm — Dark brown (7.5YR3/2) clay loam with fine sand, moderate subangular blocky structure, rough fabric, pH 6.0. Gradual transition to:

A12 220-360 mm — Dark reddish brown (5YR3/3) clay loam with fine sand, strong subangular blocky structure, pH 5.75. Clear transition to:

B2 360-600 mm+ — Reddish brown (5YR5/3) medium clay, moderate subangular blocky structure, smooth fabric, pH 5.75.

CLASSIFICATION

Factual Key:	Dy2.11
Australian Soil Classification:	Haplic, ?, Red Chromosol, (Confidence level 4); thick, non-gravely, clay loamy/clayey, moderate
Unified Soil Group:	Not available

INTERPRETATION OF LABORATORY ANALYSIS*

Horizon	pH (H_2O)	% Gravel	E.C. (salts)	Nutrient Status	P	K	Al	Organic matter	Dispersibility
A11	6.0	NA	NA	NA	NA	NA	NA	NA	NA
A12	5.75	NA	NA	NA	NA	NA	NA	NA	NA
B2	5.75	NA	NA	NA	NA	NA	NA	NA	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 Moderate (estimate)
Available Water Capacity: Moderate (estimated: 120 mm H_2O)
Linear Shrinkage (B horizon): Low (estimate)

C. LAND CAPABILITY ASSESSMENT

Land Use	Class	Major Limiting Feature(s)/Land Use
Agriculture	$C_2T_3S_3$	Slope, available water capacity, susceptible to sheet, rill and gully erosion
Effluent Disposal (septic tanks)	3	Slope, drainage
Farm Dams	4	Slope, permeability, depth to hardrock (variable)
Building Foundations		
slab	4	Slope
stumps/footings	3	Slope, drainage, slope failure risk