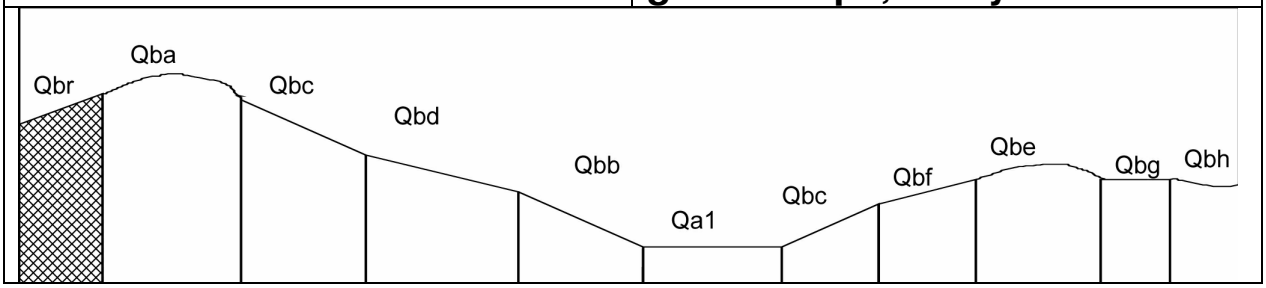
MAP UNIT SYMBOL: **Qbr** Area: 9 462 ha	MAP UNIT: **Quaternary basalt, gentle slope, rocky**



A. GENERAL DESCRIPTION

Areas of rock outcrop greater than 50% generally occur on the gentle slopes, although they are, to a lesser extent, found on the moderate and very gentle slopes off the basalt cones. The main area of rocky basalt in the Shire occurs just north of Springfield.

SITE CHARACTERISTICS

Parent Material Age:	Quaternary	**Depth to Seas. Watertable:**	>2.0 m
Parent Material Lithology:	Basalt	**Flooding Risk:**	Nil
Landform Pattern:	Lava plain	**Drainage:**	Moderately well drained
Landform Element:	Hillslope	**Rock Outcrop:**	50-60%
Slope a) common:	6%	**Depth to Hard Rock:**	0.5 m
Slope b) range:	4-6%	**Present Land Use:**	Grazing
Potential Recharge to Groundwater: High			
Major Native Vegetation Species:	Blackwood, Silver Wattle, Kangaroo Grass		

LAND DEGRADATION

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

B. SOIL PROFILE

PROFILE DESCRIPTION

A1 0-110 mm Very dark greyish brown (10YR3/2) loam, moderate subangular blocky structure, peds 2-5 mm, rough fabric, moderately firm consistence, many fine subrounded to rounded basalt gravel fragments, pH 6.0. Gradual transition to:

B2 110-320 mm Very dark greyish brown (10YR3/2) silt loam, weak subangular blocky structure, peds 20-50 mm, rough fabric, moderately firm consistence, many fine subrounded basalt gravel fragments, pH 6.0. Gradual transition to:

B3 320-460 mm Very dark greyish brown (10YR3/2) silt loam, weak subangular blocky structure, peds 20-50 mm, rough fabric, firm consistence, many fine subrounded basalt fragments, pH 6.0. Clear transition to:

R 460 mm+ Basalt rock.

CLASSIFICATION

Factual Key:	Um1.44
Australian Soil Classification:	Haplic, Eutrophic, Black Kandosol; medium, moderately gravely, loamy/silty, shallow
Unified Soil Group:	CL

INTERPRETATION OF LABORATORY ANALYSIS*

Horizon	pH ($CaCl_2$)	% Gravel	E.C. (salts)	Nutrient Status	P	K	Al	Organic matter	Dispersibility
A1	4.6	22.4	VL	M	D	S	S	H	L
B2	4.7	31.3	VL	M	D	D	S	H	L
B3	5.0	43.3	VL	L	D	D	S	H	L

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 (average 430 mm/day, range 310-560 mm/day)
Available Water Capacity: Very low (45 mm H_2O)
Linear Shrinkage (B horizon): Low (7%)

C. LAND CAPABILITY ASSESSMENT

Land Use	Class	Major Limiting Feature(s)/Land Use
Agriculture	C_2 T_2 S_5	Depth to hard rock, available water capacity, gravel/stone/boulder content
Effluent Disposal (septic tanks)	5	Depth to hard rock
Farm Dams	5	Suitability of subsoil, depth to hard rock
Building Foundations		
slab	5	Stone and boulder content
stumps/footings	5	Stone and boulder content