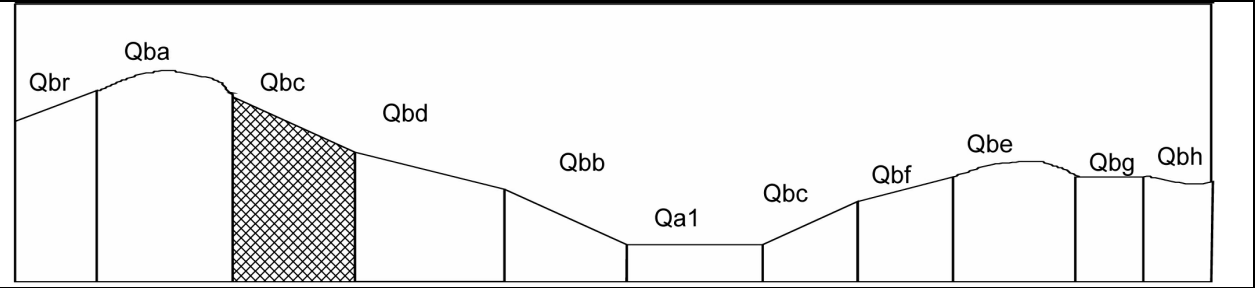


MAP UNIT SYMBOL: Qbc

Area: 18 250 ha

MAP UNIT: Quaternary basalt, moderately steep slope**A. GENERAL DESCRIPTION**

The basalt moderately steep slopes are very similar to the moderate slopes, (Qbd). The soils are commonly yellow or dark silty gradational soils. They can be either whole coloured or mottled.

SITE CHARACTERISTICS

Parent Material Age:	Quaternary	Depth to Seas. Watertable:	>5.0 m
Parent Material Lithology:	Basalt	Flooding Risk:	Nil
Landform Pattern:	Rolling rises/lava plain	Drainage:	Well drained
Landform Element:	Hillslope	Rock Outcrop:	0-2%
Slope a) common:	22%	Depth to Hard Rock:	>1.1 m
Slope b) range:	21-32%	Present Land Use:	Grazing
Potential Recharge to Groundwater: Moderate			
Major Native Vegetation Species: Manna Gum, Grey Box, Red Stringybark, Messmate, Silver Wattle			

LAND DEGRADATION

Land Degradation	Water Erosion		Wind Erosion	Mass Movement	Salting	Acidification
	sheet/rill	gully				
Susceptibility	High	Low	Very low	Moderate	Low	Low
Incidence	Low	Low	Low	Low	Low	Low

B. SOIL PROFILE**PROFILE DESCRIPTION**

A11	0-45 mm	Dark brown (7.5YR3/2) silty clay loam, strong subangular blocky structure, peds 2-5 mm, rough fabric moderately weak consistence, pH 6.0. Clear transition to:
A12	45-270 mm	Dark brown (7.5YR3/2) silty clay loam, strong subangular blocky structure, peds 2-5 mm, rough fabric, moderately weak consistence, pH 6.0. Gradual transition to:
B21	270-680 mm	Dark brown (7.5YR3/2) silty clay a few fine faint orange mottles, strong subangular blocky structure, peds 5-10 mm, rough fabric, moderately strong consistence, pH 6.0. Gradual transition to:
B22	680-1100 mm	Dark brown (7.5YR3/2) silty clay, a few fine faint orange mottles, strong subangular blocky structure, peds 5-10 mm, rough fabric, moderately strong consistence, pH 6.5. Gradual transition to:
BC	1100+ mm	Partially weathered basalt rock.

CLASSIFICATION

Factual Key:	Gn4.42, Gn4.51
Australian Soil Classification:	Haplic, Eutrophic, Black Dermosol; medium, non-gravely, clay loamy/clayey, deep
Unified Soil Group:	ML

INTERPRETATION OF LABORATORY ANALYSIS*

Horizon	pH (CaCl ₂)	% Gravel	E.C. (salts)	Nutrient Status	P	K	Al	Organic matter	Dispersibility
A11	5.0	0	VL	VL	S	S	S	H	L
A12	4.7	2.1	VL	M	D	S	S	H	L
B21	5.6	1.0	VL	M	S	D	S	L	L
B22	5.9	<1	VL	M	S	D	S	L	M

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 (average 930 mm/day, range 120-1600 mm/day)
Available Water Capacity:	High (160 mm H ₂ O)
Linear Shrinkage (B horizon):	Moderate (14%)

C. LAND CAPABILITY ASSESSMENT

Land Use	Class	Major Limiting Feature(s)/Land Use
Agriculture	C ₂ T ₄ S ₄	Slope, susceptibility to sheet and rill erosion
Effluent Disposal (septic tanks)	4	Slope
Farm Dams	5	Slope
Building Foundations slab	4	Slope
stumps/footings	3	Slope, susceptibility to slope failure, linear shrinkage