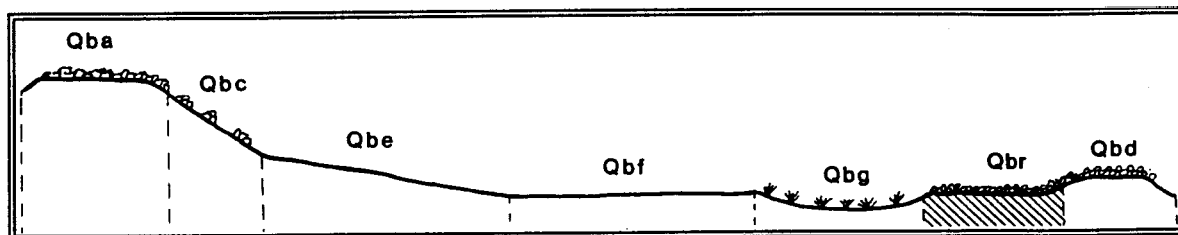


Map Unit:	Quaternary basalt, very gentle slope, rocky	Map Unit Symbol:	Qbr
		% of Study Area:	2.7



General Description:

These very gentle slopes with greater than 40% rock outcrop occur at random on the basaltic plain. The associated soils are reddish brown clay loam which vary in depth but are commonly very shallow. Red duplex and gradational soils that occur on the non rocky very gentle slopes sometimes occur in deep pockets between the rocks. The rocks are occasionally cleared to allow cultivation.

Site characteristics:

Parent material age:	Quaternary	Depth seasonal watertable:	> 5 m
Lithology:	Basalt	Potential recharge to groundwater:	Very high
Landform Pattern:	Lava plain	Flooding risk:	Nil
Element:	Slope	Drainage:	Rapidly drained
Slope common range:	2% 0-3%	Depth to hardrock:	0.2m
Rock outcrop:	40-50%		

Major vegetation: Yellow Box, Grey Box, Long-leaf Box, Buloke, Lightwood, Kangaroo Grass, Wallaby Grass, Capeweed

Present land use: Grazing - sheep

Land degradation:	Water erosion		Wind erosion	Salting	Acidification
	Sheet/rill	Gully			
Susceptibility	Moderate	Very low	Low	Low	Low
Incidence	Low	Nil	Low	Nil	Low

Soil profile characteristics:

Permeability (measured - average, range):	2070, 1161 - 3091 mm/day
(estimated):	-
Available water capacity:	38mm H ₂ O
Linear shrinkage (B horizon):	N.A. (Low - estimated)

Soil profile description:

A 0 - 12cm Dark reddish brown (5YR3/3) clay loam, weak structure, subangular blocky pads 2-5 mm, smooth fabric, moderately firm consistence, a few coarse basalt fragments, moderate organic matter content, pH 6.0. Clear transition to

C 12+ cm Rock

Soil classification:

Factual Key (Northcote): Um6.43 (major), Dr2.13 (minor)

Australian Soil Classification: Lithic, Leptic, Rudosol; shallow, medium, clay loamy, non-gravelly

Unified Soil Group: CL

Interpretation of soil analyses*

Horizon	pH	Gravel %	E.C. (salts)	Nutrient status	P	K	Al	Organic matter	Dispersibility
A	6.0	6.3	VL	L	D	S	S	M	L

VL : Very Low; L : Low; M : Moderate; H : High;

VH : V e r y High; D : Deficient; S : Satisfactory; T : Toxic; **: Acid * See Appendix 4 for analytical results

Land capability assessment

Land use	Class	Major limiting feature(s)/landuse
Agriculture (CTS values)	C ₃ T ₂ S ₅	Shallow depth to hardrock, very low available water capacity, high gravel/stone/boulder content
Effluent disposal (septic tanks)	5	Shallow depth to hardrock, very rapid permeability – risk of polluting groundwater
Farm dams (earthen)	5	Shallow depth to hardrock, very low suitability of subsoil, very rapid permeability
Building foundations * slab	5	Shallow depth to hardrock
* stumps/footings	5	Shallow depth to hardrock
Secondary roads	5	Shallow depth to hardrock
Urban residential	5	Secondary roads, building foundations
Rural residential	5	Farm dams, effluent disposal, secondary roads, building foundations.