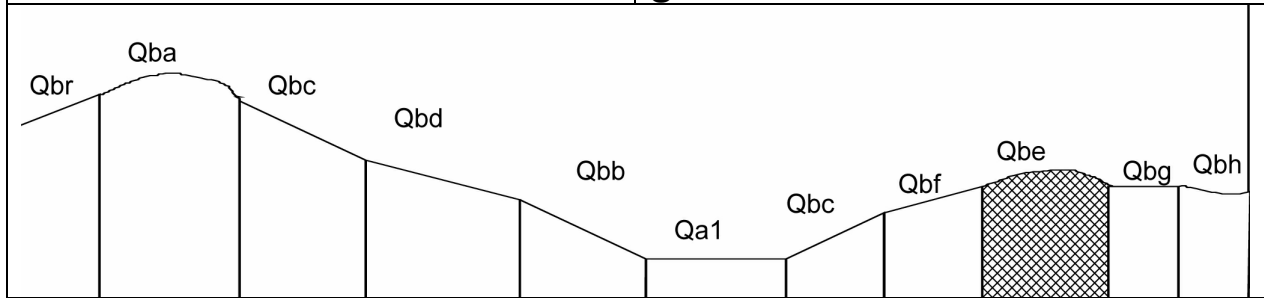


**MAP UNIT SYMBOL: Qbe**

Area: 2 143 ha

**MAP UNIT: Quaternary basalt, gentle crest**



**A. GENERAL DESCRIPTION**

The basalt gentle crests have very variable soils. Mottled duplex soils are the most common although the colour varies from yellows to browns. Uniform clays and gradational profiles also occur. The profile description, except for the brown colour, is common for the duplex soil type. Silty clay loams overlying silty clays also occur.

**SITE CHARACTERISTICS**

<b>Parent Material Age:</b>	Quaternary	<b>Depth to Seas. Watertable:</b>	>2.0 m
<b>Parent Material Lithology:</b>	Basalt	<b>Flooding Risk:</b>	Nil
<b>Landform Pattern:</b>	Lava plain	<b>Drainage:</b>	Well drained
<b>Landform Element:</b>	Hillcrest	<b>Rock Outcrop:</b>	0-2%
<b>Slope a) common:</b>	1%	<b>Depth to Hard Rock:</b>	0.6 m-1.5 m (variable)
<b>Slope b) range:</b>	0-2%	<b>Present Land Use:</b>	Grazing
<b>Potential Recharge to Groundwater:</b>	Moderate		
<b>Major Native Vegetation Species:</b>	Yellow Box, Golden Wattle, Kangaroo Grass		

**LAND DEGRADATION**

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

**B. SOIL PROFILE**

**PROFILE DESCRIPTION**

<b>A1</b>	0-60 mm	Dark greyish brown (10YR4/2) clay loam with fine sand, strong subangular blocky structure, rough fabric, pH 6.0. Clear transition to:
<b>A12</b>	60-190 mm	Dark brown (7.5YR3/3) clay loam with fine sand, moderate subangular blocky structure, rough fabric, pH 6.0. Clear transition to:
<b>A3</b>	190-300 mm	Dark brown (7.5YR3/4) fine sandy clay loam, moderate subangular blocky structure, rough fabric, pH 6.0. Clear transition to:
<b>B2</b>	300-600 mm+	Dark brown (7.5YR4/3) medium clay, fine distinct orange mottles are common, strong subangular blocky structure, rough fabric, medium basalt gravel fragments are common, pH 6.5.

## CLASSIFICATION

<b>Factual Key:</b>	Db2.12, Dy2.12, Gn4, Uf6.12.
<b>Australian Soil Classification:</b>	Mottled, ?, Brown Chromosol, (confidence level 4); medium, slightly gravely, clay loamy/clayey, deep
<b>Unified Soil Group:</b>	Not available

## INTERPRETATION OF LABORATORY ANALYSIS\*

Horizon	pH (H <sub>2</sub> O)	% Gravel	E.C. (salts)	Nutrient Status	P	K	Al	Organic matter	Dispersibility
A11	6.0	<2	NA	NA	NA	NA	NA	NA	NA
A12	6.0	<2	NA	NA	NA	NA	NA	NA	NA
A3	6.0	<2	NA	NA	NA	NA	NA	NA	NA
B2	6.5	10-20	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:

<b>Permeability:</b>	Rapid (estimate)
<b>Available Water Capacity:</b>	Moderate (106 mm H <sub>2</sub> O)
<b>Linear Shrinkage (B horizon):</b>	Moderate (estimate)

## C. LAND CAPABILITY ASSESSMENT

Land Use	Class	Major Limiting Feature(s)/Land Use
<b>Agriculture</b>	C <sub>2</sub> T <sub>1</sub> S <sub>3</sub>	Depth to hardrock, available water capacity, susceptibility to sheet and rill erosion
<b>Effluent Disposal (septic tanks)</b>	2	
<b>Farm Dams</b>	3	Linear shrinkage, suitability of subsoil, depth to hardrock, permeability
<b>Building Foundations slab</b>	2	
<b>stumps/footings</b>	2	