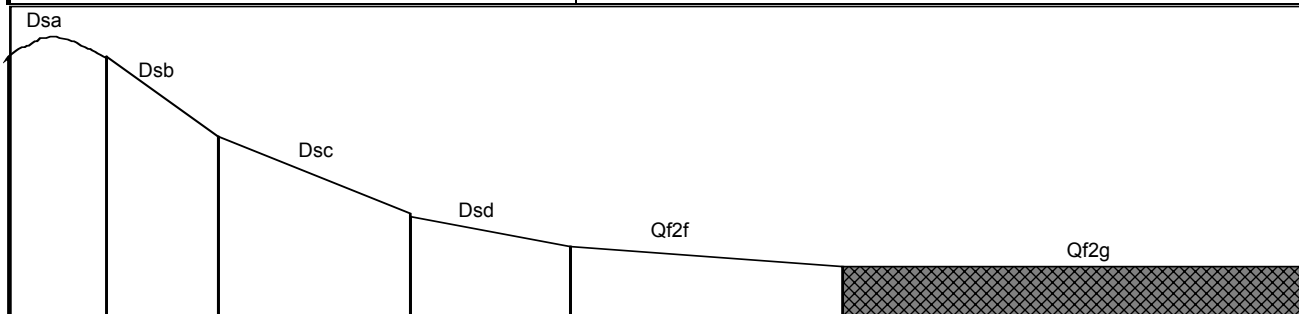


<b>MAP UNIT SYMBOL : Qf2g</b>	<b>MAP UNIT : Quaternary fan (sedimentary), very gentle slope.</b>
<b>Area : 87 ha</b>	



### A. GENERAL DESCRIPTION :

These colluvial fans have developed on some of the very gentle lower slopes of the Devonian sedimentary hills. The soils are gradational in nature with very dark grey loam top soils grading into bleached clay loams and then into brownish-yellow light clay subsoils. Randomly scattered coarse fragments are abundant throughout the profile and there are many red and brown mottles in the subsoil. The soils are acidic and generally very low in nutrients.

#### SITE CHARACTERISTICS :

<b>Parent Material Age:</b>	Devonian	<b>Depth to Seas. Watertable:</b>	>2.0m
<b>Parent Material Lithology:</b>	Sediments	<b>Flooding Risk:</b>	Nil
<b>Landform Pattern:</b>	Low hills	<b>Drainage:</b>	Moderately well drained
<b>Landform Element:</b>	Fan	<b>Rock Outcrop:</b>	0%
<b>Slope a) common:</b>	3%	<b>Depth to Hard Rock:</b>	>1.5m
<b>Slope b) range:</b>	1-3%	<b>Present Land Use:</b>	Grazing
<b>Potential Recharge to Groundwater:</b>	Low		
<b>Major Vegetation Species:</b>	River Red Gum, Red Stringybark, Narrow-leaved Peppermint, Blackwood		

#### LAND DEGRADATION :

Land Degradation	Water Erosion		Wind Erosion	Mass Movement	Salting	Acidification
	sheet / rill	gully				
<b>Susceptibility</b>	Low	High	Moderate	Low	Moderate	Low
<b>Incidence</b>	Low	Moderate	Low	Low	Low - Mod	Not available

### B. SOIL PROFILE

#### PROFILE DESCRIPTION

<b>A1</b>	0-110mm	Very dark grey (10YR3/1) loam, weak granular structure, peds 2-5mm, rough fabric, moderately firm consistence, common fine sedimentary gravel fragments, pH 3.8. Clear transition to:
<b>A2</b>	110-595mm	Light yellowish-brown (10YR6/4) sandy clay loam, bleached (10YR7/4) when dry, a few fine faint red mottles, apedal, earthy fabric, moderately firm consistence, many medium sized sedimentary fragments, pH 4.5. Clear transition to:
<b>B</b>	595-1500 <sup>+</sup> mm	Brownish-yellow (10YR6/6) light clay, many medium sized faint red and brown mottles, moderate angular blocky structure, peds 2-5mm, moderately firm consistence, smooth fabric, abundant fine sedimentary fragments, pH 4.2.

## CLASSIFICATION

<b>Factual Key (Northcote):</b>	Dy3.41 (major), Gn 3.84 (minor)
<b>Australian Soil Classification:</b>	Bleached-Acidic, Magnesic, Yellow Dermosol; thick, very gravelly, loamy/clayey, very deep.
<b>Unified Soil Group:</b>	CL

## INTERPRETATION OF LABORATORY ANALYSIS

Horizon	pH (CaCl <sub>2</sub> )	%Gravel	E.C. (salts)	Nutrient Status	P	K	Al	Organic matter	Dispersibility
A1	3.8**	57.4	VL	VL	D	S	T	H	L
A2	4.5**	26.8	VL	VL	D	D	T	VL	VL
B	4.2**	39.4	VL	L	D	D	T	L	M

VL : Very low    L : Low    M : Moderate    H : High    VH : Very High    D : Deficient    S : Satisfactory  
 T : Toxic    \* see appendix D for analytical results    \*\* : Strongly acidic    N.A. : Not Available

## SOIL PROFILE CHARACTERISTICS:

<b>Permeability:</b>	Moderate (average 119 mm/day, range 33-234 mm/day)
<b>Available Water Capacity:</b>	High (156 mmH <sub>2</sub> O)
<b>Linear Shrinkage (B horizon):</b>	Low (7%)

## C. LAND CAPABILITY ASSESSMENT

Land Use	Class	Major Limiting Feature(s)/Land Use
Agriculture	C <sub>3</sub> T <sub>2</sub> S <sub>4</sub>	High gravel/stone/boulder content, highly susceptible to gully erosion
Effluent Disposal (septic tanks)	3	Moderate drainage
Farm Dams	5	Very poor dispersion in subsoil
Secondary Roads	3	Moderate drainage, Unified Soil Group
Rural Residential	5	Farm dams
Small Farms	5	Farm dams