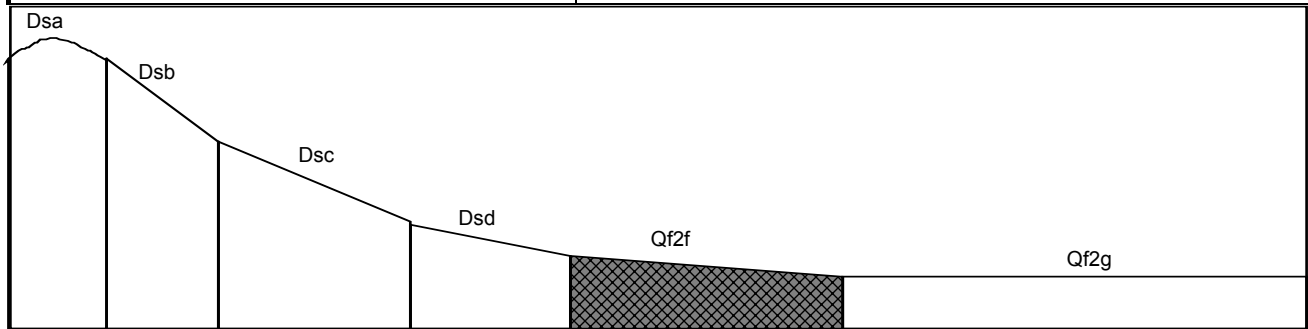


MAP UNIT SYMBOL : Qf2f	MAP UNIT : Quaternary fan (sedimentary), gentle slope.
Area : 688 ha	



A. GENERAL DESCRIPTION :

These colluvial fans have developed on some of the gentle lower slopes of the Devonian sedimentary hills. The soils are yellow duplex with very dark grey loam top soils grading into bleached clay loams and then into brownish-yellow light-medium clay subsoils. Sometimes the change in texture in the profile may be more gradational. 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 low in nutrients. These soils are very similar to the gentle sedimentary slopes (dse), the major difference being the many randomly distributed gravel fragments.

SITE CHARACTERISTICS :

Parent Material Age:	Devonian	Depth to Seas. Watertable:	>5.0m
Parent Material Lithology:	Sediments	Flooding Risk:	Nil
Landform Pattern:	Undulating low hills	Drainage:	Moderately well drained
Landform Element:	Fan	Rock Outcrop:	0%
Slope a) common:	9%	Depth to Hard Rock:	>1.5m
Slope b) range:	4-10%	Present Land Use:	Grazing
Potential Recharge to Groundwater:	Low		
Major Vegetation Species:	River Red Gum, Red Stringybark, Narrow-leaved Peppermint, Blackwood		

LAND DEGRADATION :

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

B. SOIL PROFILE

PROFILE DESCRIPTION

A1	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:
A2	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 gravel fragments, pH 4.5. Clear transition to:
B	595-1500+mm	Brownish-yellow (10YR6/6) light medium clay, many medium faint red and brown mottles, moderate angular blocky structure, peds 2-5mm, moderately firm consistence, smooth fabric, abundant fine sedimentary gravel fragments, pH 4.2.

CLASSIFICATION

Factual Key (Northcote):	Dy3.41 (major) Gn 3.84 (minor)
Australian Soil Classification:	Bleached-Acidic, Magnesian, Yellow Dermosol; thick, very gravelly, loamy,/clayey, very deep.
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	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:

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

C. LAND CAPABILITY ASSESSMENT

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