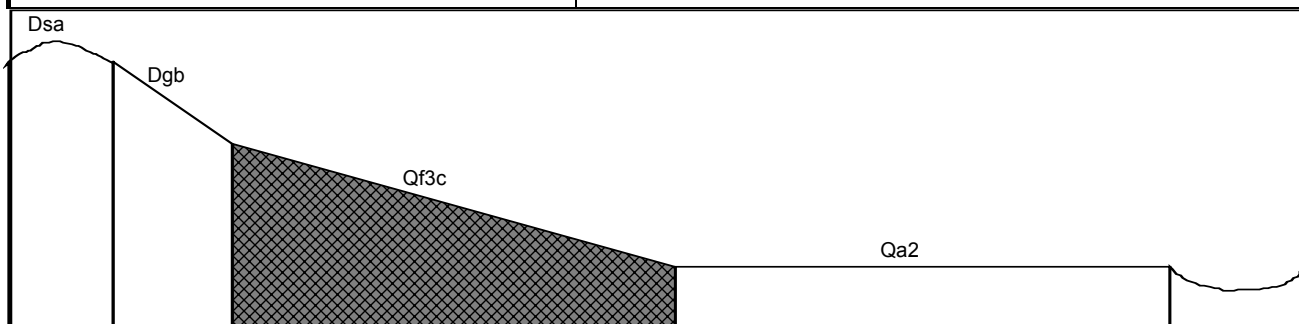


<b>MAP UNIT SYMBOL : Qf3c</b> Area : 14 ha	<b>MAP UNIT : Quaternary fan (metamorphic), moderately steep slope.</b>
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**A. GENERAL DESCRIPTION :**

A small colluvial fan that has developed on the eastern hill slope of the metamorphic/sedimentary ridge. The soil is uniform in nature with very dark greyish brown silty loam top soils and brown loam, fine sandy subsoils. The structure of the soil varies from weak to apedal. Randomly scattered metamorphic coarse fragments are abundant throughout the profile. This map unit is highly susceptible to sheet/rill erosion and mass movement.

**SITE CHARACTERISTICS :**

<b>Parent Material Age:</b>	Devonian	<b>Depth to Seas. Watertable:</b>	>5.0m
<b>Parent Material Lithology:</b>	Metamorphic/Sediment	<b>Flooding Risk:</b>	Nil
<b>Landform Pattern:</b>	Steep hills	<b>Drainage:</b>	Rapidly drained
<b>Landform Element:</b>	Footslope	<b>Rock Outcrop:</b>	0%
<b>Slope a) common:</b>	25%	<b>Depth to Hard Rock:</b>	>1.5m
<b>Slope b) range:</b>	21-32%	<b>Present Land Use:</b>	Grazing
<b>Potential Recharge to Groundwater:</b>	Very high		
<b>Major Vegetation Species:</b>	Narrow-leaved Peppermint, Silver Wattle, Kangaroo Grass		

**LAND DEGRADATION :**

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

**B. SOIL PROFILE**

**PROFILE DESCRIPTION**

<b>A11</b>	0-70mm	Very dark greyish-brown (10YR3/2) silty loam, weak subangular blocky structure, peds 5-10mm, rough fabric, moderately weak consistence, abundant medium sized metamorphic gravel fragments, pH 4.2. Clear transition to:
<b>A12</b>	70-400mm	Dark brown (7.5YR3/4) silty loam, weak subangular blocky structure, peds 2-5mm, rough fabric, moderately firm consistence, abundant coarse metamorphic gravel fragments, pH 4.7. Gradual transition to:
<b>A3</b>	400-590mm	Dark reddish-brown (5YR3/4) silty loam, weak subangular blocky structure, peds 5-10mm, moderately firm consistence, abundant medium sized metamorphic gravel fragments, pH 5.0. Diffuse transition to:
<b>B21</b>	590-1110mm	Yellowish-red (5YR4/6) loam fine sandy, apedal, earthy fabric, moderately firm consistence, abundant coarse metamorphic gravel fragments, pH 5.1. Clear transition to:

**B22** 1110-1810+mm Brown (7.5YR5/4) loam fine sandy, apedal, earthy fabric, moderately weak consistence, abundant coarse metamorphic gravel fragments, pH 4.6.

**CLASSIFICATION**

<b>Factual Key (Northcote):</b>	Um
<b>Australian Soil Classification:</b>	Basic, Regolithic, Orthic, Tenosol; thick, very gravelly, loamy/sandy, deep.
<b>Unified Soil Group:</b>	GM

**INTERPRETATION OF LABORATORY ANALYSIS**

Horizon	pH (CaCl <sub>2</sub> )	%Gravel	E.C. (salts)	Nutrient Status	P	K	Al	Organic matter	Dispersibility
<b>A11</b>	4.2**	63.3	VL	L	D	S	T	H	L
<b>A12</b>	4.7	69.3	VL	L	D	S	S	M	L
<b>A3</b>	5.1	78.6	VL	VL	D	S	S	L	L
<b>B21</b>	5.2	80.9	VL	VL	D	S	S	L	L
<b>B22</b>	4.6	82.5	VL	VL	D	S	T	L	L

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>	Very rapid
<b>Available Water Capacity:</b>	Low (92 mmH <sub>2</sub> O)
<b>Linear Shrinkage (B horizon):</b>	Very low (2%)

**C. LAND CAPABILITY ASSESSMENT**

Land Use	Class	Major Limiting Feature(s)/Land Use
<b>Agriculture</b>	C <sub>3</sub> T <sub>4</sub> S <sub>5</sub>	Very high gravel/stone/boulder content
<b>Effluent Disposal (septic tanks)</b>	4	Moderately steep slope, high permeability - risk of polluting groundwater or nearby streams
<b>Farm Dams</b>	5	Steep slope, very high permeability
<b>Secondary Roads</b>	4	Moderately steep slope, highly susceptible to slope failure
<b>Rural Residential</b>	5	Farm dams
<b>Small Farms</b>	5	Farms dams, agriculture