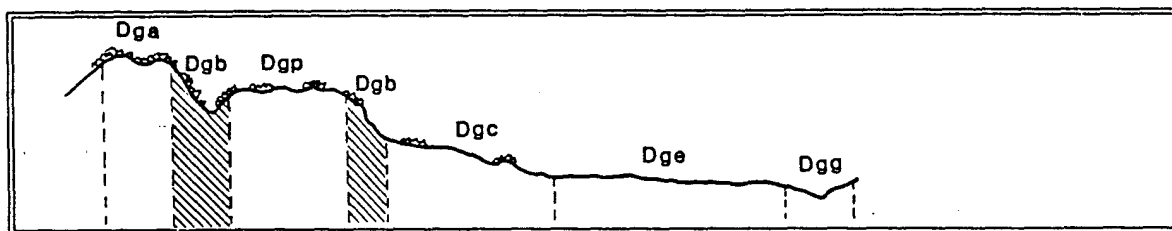


Map Unit:	DEVONIAN GRANITIC STEEP SLOPE	Map Unit Symbol: Dgb
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General Description:

This area encompasses the steep forested slopes of the Cobaw Range in the north-east of the State. Outcrops of granitic tors are a common feature, being particularly evident where the native vegetation has been cleared. Soil depth is variable, permeability is very high and fresh water springs are common at lower elevations. The steep slopes are susceptible to erosion and landslips but remain stable under native vegetation.

Site characteristics: Site No. 1100

Parent material Age: Lithology:	Devonian Granite, granodiorite	Depth seasonal watertable:	>5 m
Landform Pattern: Element:	Rolling hills Steep slopes	Potential recharge to groundwater:	Moderate
Slope common: range:	35% 32-40%	Flooding risk:	Nil
Rock outcrop:	10-30%	Drainage:	Rapid
		Depth to hardrock:	1 m (variable)
		Proportion of Shire:	2.4%

Native vegetation: Manna Gum, Messmate
Present land use: Forestry (Cobaw State Forest)

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

Soil profile characteristics:

Permeability (measured - average, range): (estimated):	2000, 1500 - 3000 mm/day -
Available water capacity:	140 mm H ₂ O
Linear Shrinkage (B horizon):	12.4%

Soil profile description:

A₁	0-17 cm	Dark brown (7.5YR 3/3) loamy sand, apedal, dry loose consistence quartz gravel common, pH 5.4. Clear transition to
A₂	17-59 cm	Strong brown (7.5YR 5/6, 7/3 dry) coarse sandy loam, apedal massive, slightly hard consistence (dry) few quartz gravel, pH 5.9. Clear transition to
B₂	59-110 cm	Reddish brown (5YR 4/6) light medium clay, moderate subangular blocky structure 12 mm, smooth fabric, firm consistence, pH 5.9. Distinct transition to
BC	110-140+ cm	Reddish brown (5YR 4/6) clay loam

Soil classification:

Factual Key (Northcote): Dr 2.41
 Australian Soil Classification: Bleached, Dystrophic, Red, Chromosol, deep, medium sandy, gravelly
 Unified Soil Group: CL

Interpretation of soil analyses*

Horizon	pH	Gravel	E.C.	Nutrient status	P	K	Al	Org. matter	Dispersibility
A ₁	5.4*	18	VL	L	D	S	T	H	VL
A ₂	5.9	9	VL	VL	D	S	S	L	VL
B ₂	5.9	12	VL	L	NA	NA	S	L	L

VL : Very Low L : Low M : Moderate H: High VH : Very High
 D: Deficient S: Satisfactory T: Toxic ** Acid NA : Not available

Land capability assessment

Land use	Class	Major limiting feature (s)
Agriculture (CTS values)	C ₃ T ₅ S ₅	Very steep slopes (high proportion of rock outcrop and shallow soils = Class 4)
Effluent disposal (septic tanks)	5	Steep slopes
Farm dams (earthen)	5	Steep slopes, very shallow depth of clay layer, excessive permeability
Building foundations * slab * stumps/footings	5 4	Steep slopes, high risk of slope failure Moderate slopes, high risk of slope failure