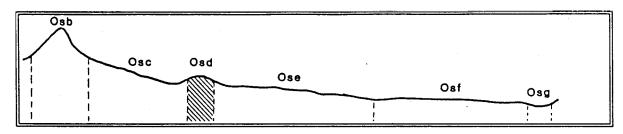
Map Unit:

ORDOVICIAN SEDIMENTS,
CREST/RIDGE/MODERATE SLOPE

Map Unit Symbol: Osd



General Description:

A large proportion of the Wombat State Forest, situated in the south-west of the Shire, is occupied by gentle crests which grade into moderate slopes or drainage depressions within a short distance. Because the major land use is timber production within a State Forest and because of limitations of map scale, the gentle crests have not been mapped separately from the adjoining gentle-moderate slopes. The soils are typically whole-coloured yellow duplex profiles with bleached A2 horizons. The inherent fertility is very low and the topsoils are highly susceptible to acidification.

Site characteristics: Site No. 17

Parent material		Depth seasonal	> 2 m
Age:	Ordovician	watertable:	
Lithology:	Sediments		
Landform		Potential recharge to	Moderate
Pattern:	Undulating low hills	groundwater:	
Element:	Gentle crest/moderate		
	slope		
Slope		Flooding risk:	Nil
common:	3%		
range:	2-6%		
Rock outcrop:	0%	Drainage:	Well drained
		Depth to hardrock:	1.2 m
		Proportion of Shire:	14.0

Native vegetation: Messmate, Narrow-leaf Peppermint, Candlebark Gum

Present land use: State Forest, hardwood and softwood production (major) grazing (minor)

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

Soil profile characteristics:

Permeability (measured - average, range):	185, 10 - 500 mm/d		
(estimated):	-		
Available water capacity:	125 mm H₂O		
Linear Shrinkage (B horizon):	12.0%		

Soil profile description:

A₁ 0-11 cm Brownish yellow (10YR 6/6) loam, weak subangular blocky structure 4 mm,

smooth fabric, loose consistence, few organic segregations, quartz and

ironstone gravel, pH 5.2. Abrupt transition to

A₂ 11-22 cm Brownish yellow (10YR 6/6, dry 8/3) silty loam, apedal massive, earthy fabric,

moderately strong consistence, massive broken weakly-cemented dens pan

pH 5.1. Clear transition to

B₂ 22-85 cm Brownish yellow (10YR 6/8) light medium clay, weak angular blocky structure

8 mm, smooth fabric, moderately strong consistence, few quartz, sandstone

and ferruginous gravels, pH 5.4. Clear transition to

BC 85-120 + cm

Soil classification:

Factual Key (Northcote): Dy 2.41

Australian Soil Classification: Haplic, Dystrophic, Yellow, Kurosol, moderate medium, loamy,

non-gravelly

Unified Soil Group: NA

Interpretation of soil analyses*

Horizon	рН	Gravel	E.C.	Nutrient status	Р	K	Al	Org. matter	Dispersibility
A ₁	5.2**	7	VL	VL	D	D	T	Н	L
A ₂	5.1**	7	VL	VL	D	D	T	L	L
B ₂	5.4**	12	VL	VL	D	D	Τ	VL	L
BC	5.3**	7	VL	VL	D	D	T	VL	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 ₂ S ₄	High susceptibility to sheet/rill and wind erosion
Effluent disposal (septic tanks)	2	Nil
Farm dams (earthen)	4	Shallow depth to hard rock, of clay layer and depth moderate permeability
Building foundations * slab * stumps/footings	3 2	Moderate Nil