BERNACCHIS CREEK **(368151)** LAND SYSTEM

Open forest in the Bernacchis Creek (368151) Land System with *Eucalyptus Globulus and Eucalyptus viminalis* over an understorey of *Lomandra longifolia and Pteridium esculentum*.

DENNES HILL **(372142)** LAND SYSTEM [See description on next page]

Exposed crests in the Dennes Hill (372142) Land System dominated by *Eucalyptus pulchella and Eucalyptus viminalis*.

LAND SYSTEM
Dennes Hill

37214 2

Area(ha):
1112G

COMPONENT	A	B	C	D
PROPORTION(%)	30	30	30	10
RAINFALL(mm)		Approximate Annual Rainfall: 625-750		
GEOLOGY	Jurassic Dolerite			
TOPOGRAPHY	Rolling Hills			
Position	Exposed Crests	Protected Mid/ Slopes Lower Slopes	Lower	Flats
Typical Slope( )	10	10-20	5	2
NATIVE VEGETATION				
Structure	(Open) Woodland	Open Forest	Woodland	Woodland Over Scrub
	Eucalyptus pulchella	Eucalyptus globulus	Eucalyptus globulus	Eucalyptus ovata
	(Eucalyptus viminalis)	Eucalyptus viminalis	Eucalyptus pulchella	Eucalyptus amygdallna
	Lomandra longifolia	Eucalyptus obliqua	(Eucalyptus viminalis)	Leptospermum scoparium
	Themeda australia	Casuarina stricta	(Eucalyptus ovata)	Melaleuca squarrosa
	Lepldosperma laterale	Acacia melanoxylon	Dichelachne inaequeglumis	
	Bursaria spinosa	Pultenaea juniperina	Stipa rudis	
	Leptorhynchos squamatus	Lomandra longifolia	Themeda australis	
	Astroloma humlfusum	Astroloma humifusum	Lepidosperma laterale	
	Viola hederacea	Bursaria spinosa	Lissanthe strigosa	
		Themeda australis	Lomandra longifolia	
		Stipa sp.	Danthonia semiannularis	
			Astroloma humifusum	
			Poa sleberana	
			Danthonia pilosa	
			Deyeuxia quadriseta	
SOIL				
Surface(A)Texture	(Sandy) Clay Loam	Sandy Clay Loam	Clay Loam/Light Clay	Clay Loam/Light Clay
Permeability	Moderate/High	Moderate/High	Moderate	Low
Typical depth(m)	0 . 50	0 . 50	0. 50	>1.40
LAND USE	Grazing, Gravel Quarrying			
HAZARDS	Low Sheet, Rill, Gully Erosion			Flooding, Waterlogging

372142

DENNES HILL

The Dennes Hill Land System is found mainly on Bruny Island and consists of dolerite hills and associated flats. It has been extrapolated to include similar country near Tinderbox and behind Coningham.

Exposed crests and slopes have a shallow (0.50 m), stony, duplex soil with a clay loam to sandy clay loam surface over a yellowish brown to dark brown clay. This supports a woodland to open woodland dominated by *Eucalyptus pulchella* and *Eucalyptus viminalis* with an understorey of *Lomandra longifolia, Themeda australis, Lepidosperma laterale, Bursaria spinosa, Leptorhynchos squamatus, Astroloma humifusum* and *Viola hederacea.*

Protected mid and lower slopes contain a shallow, stony, duplex soil consisting of a sandy clay loam surface over a dark yellowish brown clay developed on a gravelly C horizon. This sustains an open forest dominated by *Eucalyptus globulus, Eucalyptus viminalis* and *Eucalyptus obliqua* with an understorey of *Casuarina stricta, Acacia melanoxylon, Pultenaea juniperina, Lomandra longifolia, Astroloma humifusum, Bursaria spinosa, Themeda australis* and *Stipa sp.*

Lower slopes have a stony, shallow (0.50 m), gradational soil with a clay loam to light clay surface over a brown to dark brown clay. This supports a woodland dominated by *Eucalyptus globulus, Eucalyptus pulchella, Eucalyptus viminalis* and *Eucalyptus ovata* with an understorey of *Dichelachne inaequeglumis, Stipa rudis, Themeda australis, Lepidosperma laterale, Lissanthe strigosa, Lomandra longifolia, Danthonia semi-annularis, Astroloma humifusum, Poa sieberana, Danthonia pilosa* and *Deyeuxia quadriseta.*

Flats contain a deep (>1.40 m), gradational soil consisting of a clay loam to light clay surface over a dark greyish brown medium clay with a strong brown mottle. This supports a woodland dominated by *Eucalyptus ovata* and *Eucalyptus amygdalina* with a scrubby understorey of *Melaleuca sguarrosa* and *Leptospermum scoparium.*

The land system is mainly used for grazing and gravel quarrying. It is not particularly susceptible to erosion except after major disturbance when sheet, rill and gully erosion can occur on the slopes and flats. Waterlogging and flooding hazards occur on the flats associated with drainage lines.

See photo on previous page.