

LAND SYSTEM
Serpentine Lagoon Flats

298111

Area (ha):
2879

COMPONENT	A	B	C
PROPORTION(%)	40	40	20
RAINFALL(mm)	Approximate Annual Rainfall: 500-625		
GEOLOGY	Quaternary Deposits (Sands, Clays, Gravels)		
TOPOGRAPHY	Undulating Flats		
Position	Open Plains	Wooded Flats	Drainage Soaks/Marshes
Typical Slope(o)	0-5	0	0
NATIVE VEGETATION			
Structure	Open/Closed Heath	Open Woodland/Woodland	
Floristic Association (See Appendix 1 for common names)	<i>Bossiaea cinerea</i>	<i>Eucalyptus viminalis</i>	<i>Eucalyptus ovata</i>
	<i>Xanthorrhoea sp.</i>	<i>Eucalyptus amygdalina</i>	<i>Leptospermum scoparium</i>
	<i>Ricinocarpus pinifollus</i>	<i>Pteridium esculentum</i>	<i>Lepidosperma sp.</i>
	<i>Pteridium esculentum</i>	<i>Casuarina littoralis</i>	<i>Leptocarpus tenax</i>
		<i>Banksia marginata</i>	<i>Melaleuca gibbosa</i>
		<i>Lomandra longifolia</i>	<i>Centella cordifolia</i>
		<i>Aotus ericoides</i>	<i>Poa sp.</i>
		<i>Leptospermum scoparium</i>	<i>Ricinocarpus pinifolius</i>
		<i>Dillwynia glaberrima</i>	
		<i>Gompholobium huegelii</i>	
	<i>Astroloma humifusum</i>		
	<i>Hypolaena fastigiata</i>		
	<i>Bossiaea prostrata</i>		
SOIL			
Surface(A)Texture	Loamy Sand	Loamy Sand	Medium Clay
B Horizon(subsoil) Colour (moist) Texture and primary profile form	Deep sand - Black (10 YR 2/1) to light grey (10 YR 7/1) to very dark greyish brown (10 YR 3/2). Uniform.	Deep sandy clay - Brownish yellow (10 YR 6/8) With light grey (10 YR 7/1) mottle or grey/light grey (10 YR 6/1) with yellowish brown (10 YR 5/8) mottle. Duplex.	Deep clay - Black (2.5 Y 2/0) to dark grey (10 YR 4/1) with yellowish brown (10 YR 5/8) mottle. Uniform.
Permeability	High	Moderate/High	Low
Typical depth(m)	>1.40	>1.40	1.20
LAND USE	Grazing	Nature Conservation	
HAZARDS	High Sheet, Rill, Streambank, Wind Erosion		Waterlogging, Flooding

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SERPENTINE LAGOON FLATS

This land system is situated near Moulting Lagoon on the Coles Bay Road. It consists of undulating flats underlain by Quaternary sands and clays.

Open plains have a deep (>1.40 m) uniform sand consisting of a loamy sand surface over a black to light grey to dark greyish brown sand. This supports an open/closed heath dominated by *Bossiaea cinerea*, *Xanthorrhoea sp.*, *Ricinocarpus pinifolium* and *Pteridium esculentum*.

Forested flats contain a deep (>1.40 m) duplex soil consisting of a loamy sand surface over a brownish yellow, grey or light grey mottled sandy clay. These support an open woodland/woodland of *Eucalyptus amygdalina* and *Eucalyptus viminalis* over an understorey of *Casuarina littoralis*, *Pteridium esculentum*, *Banksia marginata*, *Lomandra longifolia*, *Aotus ericoides*, *Leptospermum scoparium*, *Dillwynia glaberrima*, *Gompholobium huegelii*, *Astroloma humifusum*, *Hypolaena fastigiata* and *Bossiaea prostrata*.

Drainage soaks and marshes have a deep (1.20 m) uniform black to dark grey clay with a yellowish brown mottle. These have an open woodland dominated by *Eucalyptus ovata* over an understorey of *Leptospermum scoparium*, *Lepidosperma sp.*, *Leptocarpus tenax*, *Melaleuca gibbosa*, *Centella cordifolia*, *Poa sp.* and *Ricinocarpus pinifolius*.

The country is used for grazing and nature conservation. Duck shooting occurs at the lagoons. The sandy soils in the land system are highly prone to sheet, rill, gully, streambank and wind erosion. Flooding and waterlogging hazards occur on the drainage soaks and marshes.



Drainage soaks in the Serpentine Lagoon (298111) Land System containing a deep uniform clay that supports an open woodland dominated by *Eucalyptus ovata*.