

441141

DARLING-TANNER

Found mainly on the western side of Flinders Island and in the south-east of Cape Barren Island, are hills formed on Devonian granite. The main occurrences on Flinders Island are the Darling Range, Mt Tanner, Mt Killiecrankie, The Patriarchs, The Dutchman and around the Strzelecki Peaks.

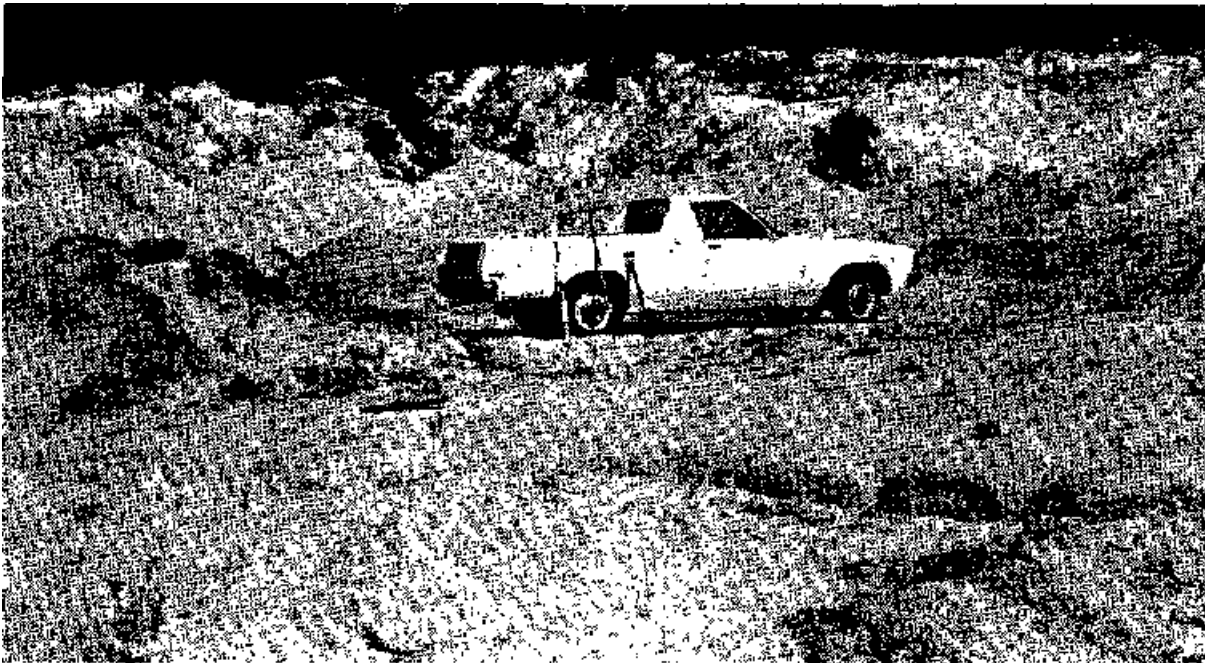
Mottled duplex soils have developed on all components except the mid slopes. The surface layer of the soils on the three upper components is gravelly. Red mottlings are evident at depth in the

soils on the crests and steep upper slopes. Soils in this system closely resemble those of the Carena, Quoin, Emita and Metta Soil Associations as described by Dimmock (1957).

The woodland and open-forest vegetation is dominated by Smithton peppermint and blue gum. The main understorey plants are *Leptospermum* spp., *Acacia mucronata* and dagger hakea.

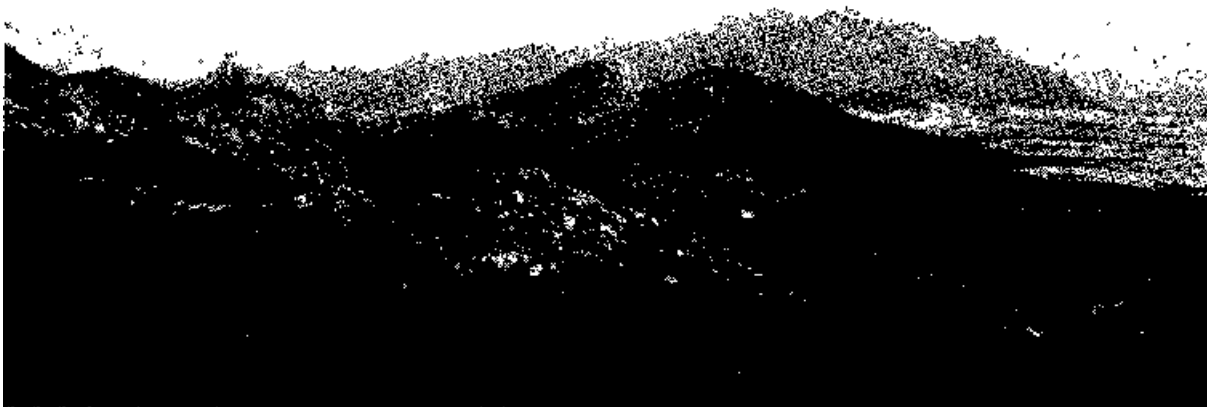
Most of the area remains undeveloped, although small pockets are used for grazing. Gravel pits are common on the gentle lower slopes.

Sheet and gully erosion are the major hazards.



Gravel pit operations on gentle lower slopes

Darling Range



LAND SYSTEM

441141

Darling—Tanner



COMPONENT	1	2	3	4
PROPORTION %	30	30	25	15
CLIMATE	Average Annual Rainfall 750-1 000 mm			
GEOLOGY	Some rock outcrops Devonian granite			Colluvium from granite
TOPOGRAPHY Land form Position Average Sideslope °	Crests and steep upper slopes 15	Hills, mainly in the west Mid slopes 10		Lower slopes 7 Gentle lower slopes 3
NATIVE VEGETATION Structure Association	Low woodland Blue gum, smithton peppermint, <i>Casuarina monilifera</i> , dagger hakea, <i>Leptospermum glaucescens</i> , <i>Leptospermum laevigatum</i> , manuka	Low open-forest Smithton peppermint, blue gum, honeysuckle, she-oak, manuka, <i>Leptospermum glaucescens</i>	Open-forest Smithton peppermint, blue gum, <i>Acacia mucronata</i> , yacca, <i>Leptospermum glaucescens</i> , dagger hakea, <i>Pimelia</i> sp.	Smithton peppermint, prickly box, <i>Leptospermum glaucescens</i> , manuka, <i>Acacia mucronata</i> , yacca, she-oak
SOIL Surface Texture	Mottled light grey (10 YR 6/1) yellowish brown (10 YR 5/8) duplex soil, with cemented gravel A2 horizon Gravelly sandy loam	Mottled strong brown (7.5 YR 5/8) grey (10 YR6/1) gradational soil Gravelly clay loam	Mottled pale brown (10 YR 6/3) yellowish brown (10 YR 5/6) duplex soil Gravelly sandy loam	Mottled light grey (10 YR 7/2) reddish yellow (7.5 YR 6/8) duplex soil Sandy loam
Permeability Average Depth m	0.5	1.2	Moderate 1.6	1.8
PRESENT LAND USE	Nature conservation, recreation		Nature conservation, recreation grazing	Nature conservation, grazing, recreation, gravel pits
HAZARDS	High sheet and gully erosion		Moderate gully, sheet and wind erosion	Low gully and sheet erosion