

453141

BROUGHAM

Restricted to occurrences near Brougham Sugar Loaf, Memana and Badger Corner on Flinders Island, are hills formed on the Mathinna Bed deposits

The shallow stony duplex soils on the crests and steep upper slopes give way to mottled duplex soils on the lower components Angular fragments of

quartzite and quartz often litter the soil surface, especially on the upper slopes Soils in this system correspond closely to those described in the Lenna Soil Association by Dimmock (1957)

Smithton peppermint, blue gum, *Leptospermum* spp, and she-oak are the major species of the open-forest and woodland vegetation

Almost all of the system remains undeveloped

Sheet, rill and wind erosion are the major hazards associated with the sandy soils



Moderate and gentler lower slopes showing gravel pit operations Gentler topography in the foreground belongs to Nelson Lagoon Land System

LAND SYSTEM

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Brougham



COMPONENT	1	2	3
PROPORTION %	30	45	25
CLIMATE	Average Annual Rainfall 750-1 000 mm		
GEOLOGY	Colluvium Lower Devonian— Tremadocian— Cambrian (Mathinna Beds)		
TOPOGRAPHY Land form Position Average Sideslope °	Crests and steep upper slopes 18	Hills Moderate slopes 10	Gentler lower slopes 5
NATIVE VEGETATION Structure Association	Smithton peppermint, manuka, <i>Leptospermum laevigatum</i> , she-oak, bracken fern	Open-forest Smithton peppermint, blue gum, yacca, manuka, paperbark, <i>Leptospermum glaucescens</i> , she-oak	Low woodland Smithton peppermint, she-oak yacca, honeysuckle, paperbark, <i>Leptospermum glaucescens</i>
SOIL Surface Texture Permeability Average Depth m	Shallow, stony grey (10 YR 6/1) duplex soil 0.2	Mottled yellowish red (5 YR 5/8) light grey (10 YR 7/1) duplex soil Sandy loam Moderate 1. 6	Mottled reddish yellow (5 YR 6/8) grey (10 YR 6/1) duplex soil, with organic iron layer 1. 7
PRESENT LAND USE	Nature conservation, recreation		Nature conservation, recreation, grazing
HAZARDS	Severe sheet erosion	Moderate sheet and rill erosion	Low sheet and wind erosion