

for rural

areas

within the

Surf Coast

Shire



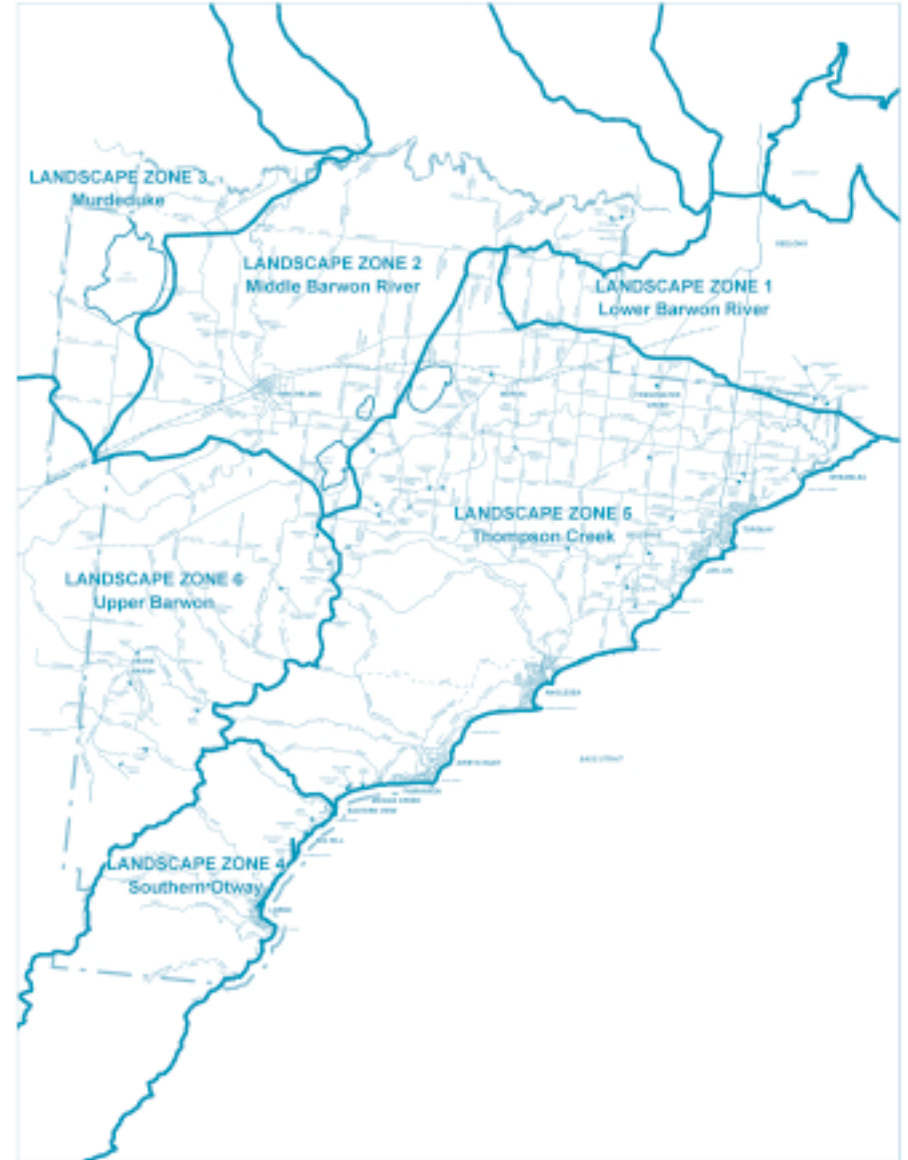
# indigenous planting guide

JULY 2003



# Acknowledgments

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**Surfcoast Water**  
"The Place of Wellbeing"

**Rural Indigenous Planting Guide  
Landscape Zones**

Not to Scale

July 2003

# Using this planting guide

The aim of this planting guide is to list a variety of indigenous plants that are suitable for use in local rural landscapes.

The guide presents six Landscape Zones within the Shire. Each Landscape Zone has a number of soil types.

Environmental factors affect the vegetation that occurs at any given site. Vegetation generally reflects the range of environmental conditions of the site, including geology, soil, elevation, aspect, landform, rainfall, salinity and temperature. This guide uses soil as a determining factor together with other landscape features to determine the vegetation that most resembles species that may have grown there. Soils are easily identifiable in the field and provide a good basis to determine what plants to grow where. Also by understanding the soil type and the plants that would grow there we will be encouraging landholders to think about and better understand ecological processes and how our natural environment is they way it is today

Ecological vegetation classes (EVC) are a mapping unit used for biodiversity assessment. An EVC describes one or more plant communities that occur in similar environments, have similar groups of plants and reproductive strategies and show similar ecological responses to disturbance such as fire; but may occur in different locations. The EVC information was collated using quadrat sampling, physical environmental factors (ie aspect elevation, geology etc) and computer analysis of these factors.

Each soil type lists trees, shrubs and groundcovers which are known to occur on that particular soil type. Landscape preference for each species is also indicated so that plants can be placed in the position within the landscape to which they are most suited, as outlined below:

**DRY** = soils with low humus content, retaining little moisture even after rain.

**WET** = soils which are saturated or spongy most of the year.

**MOIST WELL DRAINED** = soils which retain some moisture but drain readily.

Planting lists for urban areas are contained in the accompanying publication "Indigenous Planting Guide for Urban Areas Within the Surf Coast Shire".

Availability of stock can be seasonal and varies between nurseries. To ensure plants you desire are available, plan ahead and place an order with a nursery which is able to supply plants to meet your needs. Some of the plants listed are difficult to propagate and may not be stocked regularly.

To ensure maximum success with your planting projects, use stock that is grown from local seed.

These descriptions are a guide only and further advice should be sought in regard to choosing the correct plants for site specific conditions.

## Some useful definitions

<b>Endemic</b>	Plants only found in a particular area.
<b>Indigenous</b>	Plants which are native to and evolved in a particular area.
<b>Native</b>	Plants native to and which have evolved in a particular country (eg Australia).
<b>Naturalised</b>	Introduced plants which have spread beyond the possibility of eradication.
<b>Environmental Weeds</b>	Plants which aggressively invade natural bushland and displace native flora and fauna. They may be exotic or ecologically out of balance indigenous species.
<b>Exotic</b>	Species which have been introduced from overseas.
<b>Remnant</b>	Indigenous vegetation greater than 10 years of age (includes natural regrowth).

## Why using indigenous plants is beneficial

Using indigenous plants in landscaping and revegetation is beneficial because they:

- maintain the unique local visual character of the area
- preserve the biodiversity of the region for future generations
- help the movement of pollinators between remnants of bush vegetation
- extend the beauty of the local surroundings into home gardens
- are adapted to low nutrient soils and do not need fertilising
- do not become environmental weeds
- have minimal water requirements as they are adapted to the local soil conditions
- support local fauna by providing food and habitat for local wildlife, including birds, small mammals, reptiles and amphibians
- are disease resistant
- are more adapted to fire than non-indigenous species.

## Using indigenous species in revegetation

Consider the design of shelterbelts when planting wind breaks. Height, density, gaps, profile and length can affect the performance of the shelterbelt. For example, large gaps beneath windbreak trees results in acceleration of windspeed.

## Using indigenous species in rural gardens

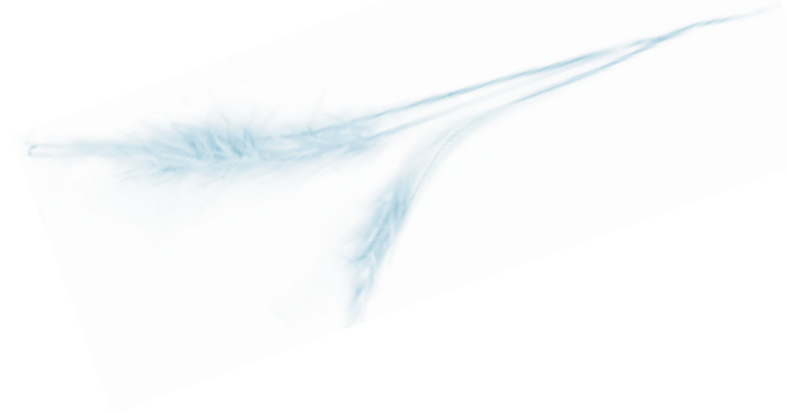
Consider using indigenous species in the garden setting. This will provide a food source for local fauna and can link the home garden to a wildlife corridor where other remnants are nearby.

### Other considerations

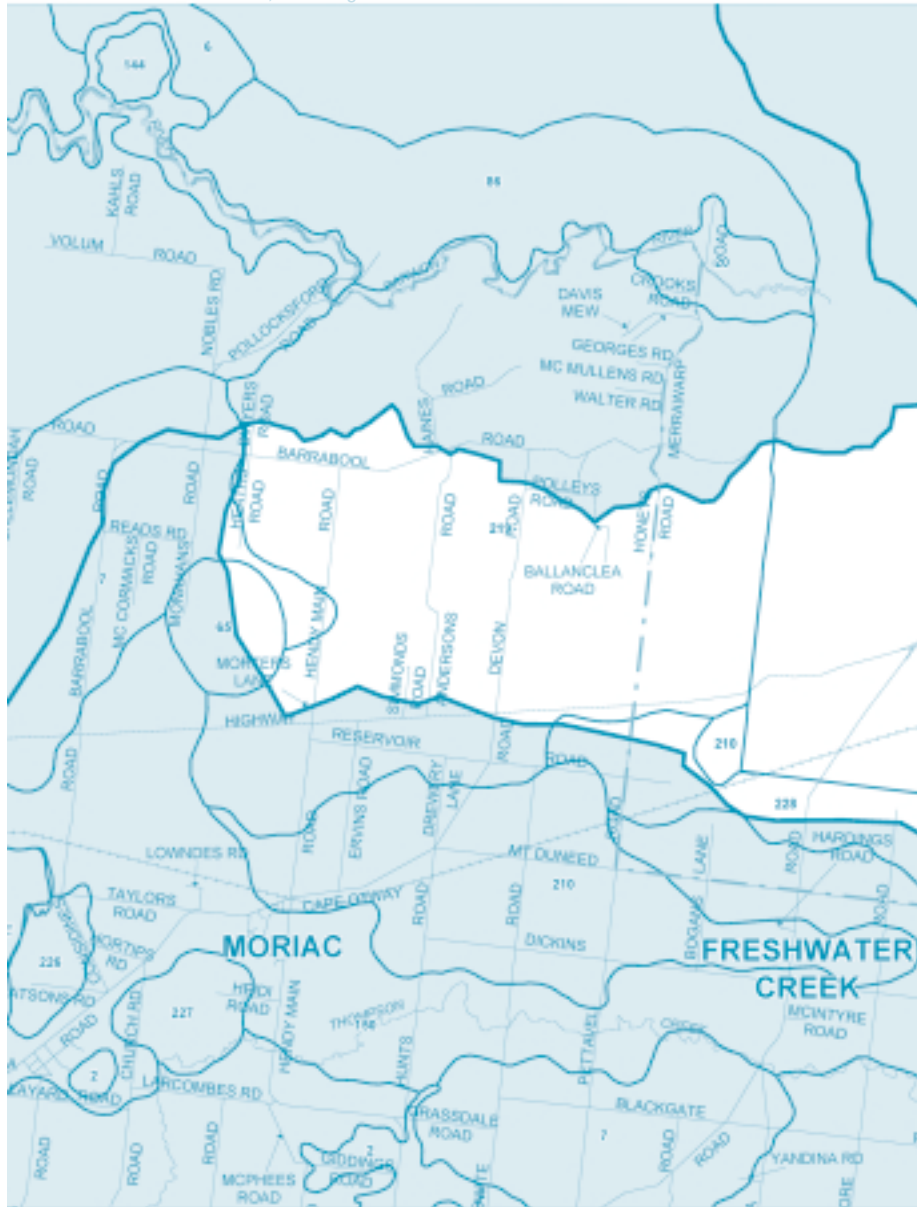
- Some plantations (eg of a certain size, near intersections, or on road reserves) may require a permit from Council – contact the Shire for further information.
- Consider the location of power lines and utilities (eg sewer) prior to planting.
- Some areas are affected by salinity, where tree growth can be limited due to the salt content in the soil. Species for salty conditions are listed in Appendix One.
- Consider the use of natural regeneration where a seed source is located nearby (eg roadsides often provide a good source of seed drop into properties).
- Consider the purpose of the planting. Can wildlife habitat be incorporated into a shelter belt by simply increasing the number of species used?
- A diversity of trees, shrubs and groundcovers support local birds which provide a low cost and continual form of natural pest control on insects.
- Seek advice on site preparation and weed control from the Department of Primary Industries (DPI) by phoning 136186 or log on to <http://delwp.vic.gov.au/> and search for Landcare notes.
- For collection of plant material from any public land, and even for collection from private land in some instances, you need to obtain a permit from the Department of Sustainability and Environment (DSE). Contact DSE on 136186 or search [www.dse.vic.gov.au](http://www.dse.vic.gov.au) for the Landcare Note “What Permit Do You Need To Collect Local Seed”.

### Need more help?

Contact the Environment Unit at the Surf Coast Shire on 5261 0600.



DRY soils with low humus content, retaining little moisture even after rain WET soils which are saturated or spongy most of the year MOIST WELL DRAINED soils which retain some moisture but drain readily



Landscape Zone 1 - Lower Barwon River  
Soil Zones



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# Landscape Zone 1

## Lower Barwon River

The majority of the Lower Barwon River Landscape Zone falls within the Barrabool Hills area and a small section falls within the Connemara area at the eastern boundary of the Shire. Most of the remnant vegetation has been cleared. A number of tributaries of the Barwon River and Waurn Ponds Creek are within the described area. Prior to 1750, the area was Grassy Woodland. Soil type 219 dominates this zone.

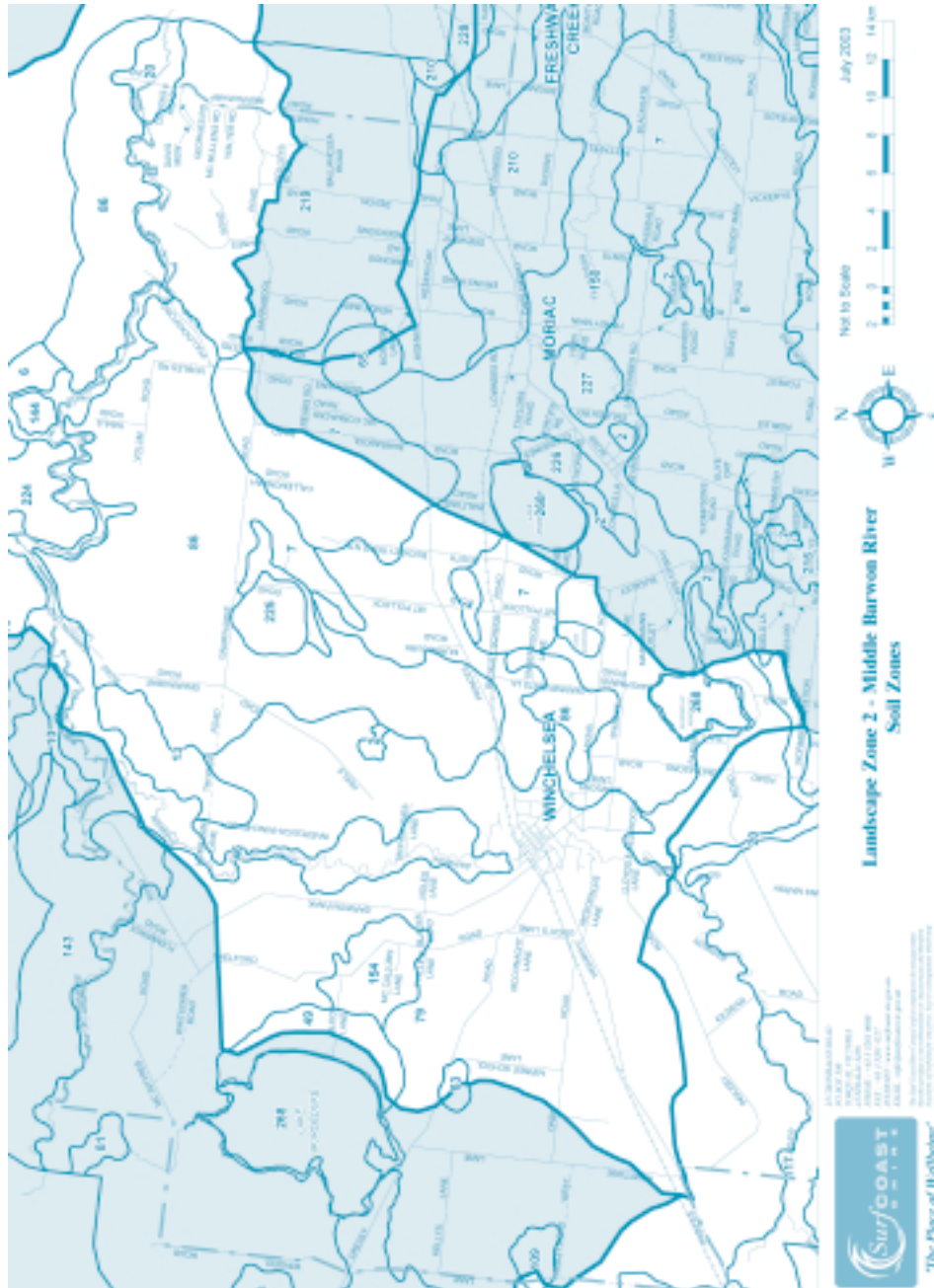
### SOIL 219 LOWER BARWON RIVER

Ecological vegetation class Grassy Woodland (175)

	DRY	WET	MOIST WELL DRAINED
<b>Trees</b>			
Acacia melanoxylon	✓		✓
Allocasuarina verticillata	✓		
Eucalyptus camaldulensis		✓	✓
Eucalyptus ovata		✓	✓
Eucalyptus viminalis	✓		✓
Blackwood	✓		✓
Drooping Sheoak	✓		
River Red Gum		✓	✓
Swamp Gum		✓	✓
Manna Gum	✓		✓
<b>Shrubs</b>			
Acacia mearnsii	✓		
Acacia pycnantha	✓		
Acacia paradoxa	✓		
Bursaria spinosa	✓		✓
Black Wattle	✓		
Golden Wattle	✓		
Prickly Acacia	✓		
Sweet Bursaria	✓		✓
<b>Groundcovers</b>			
Austrodanthonia caespitosa	✓		
Austrostipa sp.	✓		
Themeda triandra	✓		
Common Wallaby-grass	✓		
Spear Grass	✓		
Kangaroo Grass	✓		



DRY soils with low humus content, retaining little moisture even after rain WET soils which are saturated or spongy most of the year MOIST WELL DRAINED soils which retain some moisture but drain readily



## Landscape Zone 2

### Middle Barwon River

The Middle Barwon River Landscape Zone lies to west of the Lower Barwon River Catchment. It includes the Barwon River from Winchelsea to Inverleigh, Wurdiboluc Reservoir and Mt Pollock. Fourteen soils types are found across this zone.

#### SOIL 7 MIDDLE BARWON RIVER

(West of Mt Moriatic and Lake Modewarre)

Predominantly Ecological vegetation class Grassy Woodland (175) and Plains Grassy Woodland (55)

	DRY	WET	MOIST WELL DRAINED
<b>Trees</b>			
Acacia melanoxylon	✓		✓
Allocasuarina verticillata	✓		
Allocasuarina littoralis	✓		
Eucalyptus camaldulensis		✓	✓
<b>Shrubs</b>			
Acacia implexa	✓		✓
Acacia mearnsii	✓		
Acacia pycnantha	✓		
Acacia paradoxa	✓		
Bursaria spinosa	✓		✓
Hibbertia sericea	✓		
Hymenanchera dentata	✓		✓
<b>Groundcovers</b>			
Astroloma humifusum	✓		
Austrodanthonia caespitosa	✓		
Austrostipa sp.	✓		
Bossiaea prostrata	✓		✓
Brunonia australis	✓		✓
Calocephalus citreus	✓		
Carex inversa	✓		✓
Chrysocephalum apiculatum	✓		
Dianella revoluta	✓		
Eleocharis acuta		✓	✓
Blackwood			✓
Drooping Sheoak			
Black Sheoak			
River Red Gum		✓	✓
Lightwood	✓		✓
Black Wattle	✓		
Golden Wattle	✓		
Prickly Acacia	✓		
Sweet Bursaria	✓		✓
Silky Guinea-flower	✓		
Tree Violet	✓		✓
Cranberry Heath	✓		
Common Wallaby-grass	✓		
Spear Grass	✓		
Creeping Bossiaea	✓		✓
Blue Pincushion	✓		✓
Lemon Beauty-heads	✓		
Common Sedge	✓		✓
Common Everlasting	✓		
Black-anther Flax-lily	✓		
Common Spike-sedge		✓	✓

DRY soils with low humus content, retaining little moisture even after rain WET soils which are saturated or spongy most of the year MOIST WELL DRAINED soils which retain some moisture but drain readily

		DRY	WET	MOIST WELL DRAINED
Gonocarpus tetragynus	Common Raspwort	✓		
Lepidosperma longitudinale	Pithy Sword-sedge		✓	✓
Microlaena stipoides	Weeping Grass	✓		✓
Pimelea glauca	Smooth Rice-flower	✓		
Poa labillardierei	Common Tussock-grass		✓	✓
Poa morrisii	Soft Tussock-grass	✓		
Themeda triandra	Kangaroo Grass	✓		
Tricoryne elatior	Yellow Rush-lily	✓		✓

#### SOIL 8 MIDDLE BARWON RIVER

Predominantly Ecological vegetation class Grassy Woodland (175) and Lowland Forest (16) with minor occurrences of Heathy Woodland (48), Swampy Riparian Woodland (83) and Floodplain Riparian Woodland (56)

#### Trees

		DRY	WET	MOIST WELL DRAINED
Acacia melanoxylon	Blackwood	✓	✓	✓
Allocasuarina littoralis	Black Sheoak	✓		
Allocasuarina verticillata	Drooping Sheoak	✓		
Eucalyptus obliqua	Messmate	✓		
Eucalyptus ovata	Swamp Gum		✓	✓
Eucalyptus pauciflora ssp pauciflora	Snow Gum (isolated)	✓		
Eucalyptus viminalis	Manna Gum	✓		✓
Eucalyptus yarraensis	Yarra Gum		✓	✓
Eucalyptus camaldulensis	River Red Gum (North of Cape Otway Rd only)		✓	✓

#### Shrubs

		DRY	WET	MOIST WELL DRAINED
Acacia mearnsii	Black Wattle	✓		
Acacia paradoxa	Prickly Acacia	✓		
Acacia pycnantha	Golden Wattle	✓		✓
Acacia stricta	Hop Wattle	✓		
Acacia verticillata	Prickly Moses	✓	✓	✓
Banksia marginata	Silver Banksia	✓		
Bursaria spinosa	Sweet Bursaria	✓	✓	✓
Goodenia ovata	Hop Goodenia		✓	✓
Gynatrix pulchella	Hemp Bush		✓	✓
Hakea ulicina	Furze Hakea	✓		

Hymenanthera dentata  
Leptospermum continentale  
Pomaderris racemosa

#### Groundcovers

Austrodanthonia caespitosa  
Austrostipa sp  
Carex appressa  
Dianella revoluta  
Lomandra longifolia  
Poa labillardieri  
Poa sieberiana  
Themeda triandra

Tree Violet  
Prickly Tea-tree  
Slender Pomaderris

Common Wallaby-grass  
Spear Grass  
Tall Sedge  
Black-anther Flax-lily  
Spiny-headed Mat-rush  
Common Tussock-grass  
Grey Tussock-grass  
Kangaroo Grass

DRY WET MOIST  
WELL  
DRAINED

	DRY	WET	MOIST WELL DRAINED
Tree Violet	✓		✓
Prickly Tea-tree	✓	✓	✓
Slender Pomaderris	✓		
Common Wallaby-grass	✓		
Spear Grass	✓		
Tall Sedge		✓	✓
Black-anther Flax-lily	✓		
Spiny-headed Mat-rush	✓		✓
Common Tussock-grass		✓	✓
Grey Tussock-grass	✓		
Kangaroo Grass	✓		

#### SOIL 9 MIDDLE BARWON RIVER

Predominantly Ecological vegetation class Grassy Woodland (175) and Lowland Forest (16) with minor occurrences of Floodplain Riparian Woodland (56) in drainage lines  
Use Thompson Creek Soil 150 list

#### SOIL 46 MIDDLE BARWON RIVER

Ecological vegetation class Floodplain Riparian Woodland (56) which follows the Barwon River

#### Trees

		DRY	WET	MOIST WELL DRAINED
Eucalyptus camaldulensis	River Red Gum		✓	✓
Eucalyptus ovata	Swamp Gum		✓	✓
Eucalyptus viminalis	Manna Gum	✓		✓

#### Shrubs

		DRY	WET	MOIST WELL DRAINED
Acacia dealbata	Silver Wattle		✓	✓
Acacia mearnsii	Black Wattle	✓		
Correa glabra	Rock Correa	✓		
Hymenanthera dentata	Tree Violet	✓		✓
Callistemon sieberi	River Bottlebrush		✓	✓
Leptospermum lanigerum	Woolly Tea-tree		✓	✓
Leptospermum obovatum	River Tea-tree		✓	✓

DRY soils with low humus content, retaining little moisture even after rain WET soils which are saturated or spongy most of the year MOIST WELL DRAINED soils which retain some moisture but drain readily

		DRY	WET	MOIST WELL DRAINED
<b>Groundcovers</b>				
Poa labillardierei	Common Tussock-grass		✓	✓
Carex appressa	Tall Sedge		✓	✓
Juncus sp	Rushes		✓	
Eleocharis acuta	Common Spike-sedge		✓	✓

#### SOIL 49 AND 79 MIDDLE BARWON RIVER

Predominantly Ecological vegetation class Grassy Woodland (175) with pockets of Plains Sedgy Wetland (647), Plains Grassy Wetland (125) and Aquatic Herbland/Plains Sedgy Wetland Mosaic (691)

#### Trees

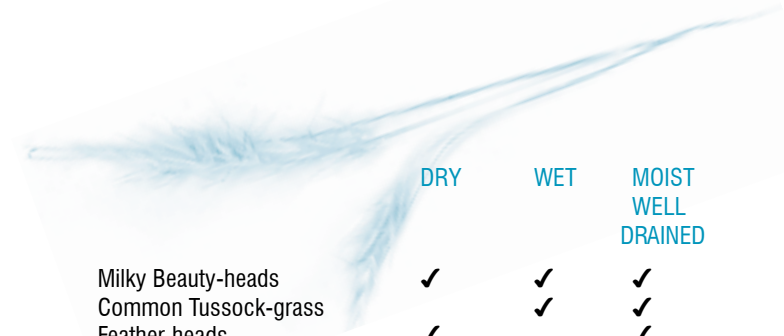
		DRY	WET	MOIST WELL DRAINED
Acacia melanoxylon	Blackwood	✓		✓
Allocasuarina verticillata	Drooping Sheoak	✓		
Eucalyptus camaldulensis	River Red Gum		✓	✓
Eucalyptus ovata	Swamp Gum		✓	✓
Eucalyptus yarraensis	Yarra Gum		✓	✓
Eucalyptus viminalis	Manna Gum	✓		✓
Ozothamnus ferruginous	Tree Everlasting	✓		✓

#### Shrubs

		DRY	WET	MOIST WELL DRAINED
Acacia mearnsii	Black Wattle	✓		
Acacia pycnantha	Golden Wattle	✓		✓
Acacia verticillata	Prickly Moses	✓	✓	✓
Bursaria spinosa	Sweet Bursaria	✓		✓
Callistemon sieberi	River Bottlebrush		✓	✓
Correa glabra	Rock Correa	✓		
Gynatrix pulchella	Hemp Bush			✓
Hymenanchera dentata	Tree Violet	✓		✓
Leptospermum lanigerum	Woolly Tea-tree		✓	✓
Leptospermum obovatum	River Tea-tree		✓	✓
Muehlenbeckia cunninghamii	Tangled Lignum (near Lake Murdeduke)		✓	✓

#### Groundcovers

		DRY	WET	MOIST WELL DRAINED
Austrodanthonia caespitosa	Common Wallaby-grass	✓		
Austrostipa sp	Spear Grass	✓		



		DRY	WET	MOIST WELL DRAINED
Calocephalus lacteus	Milky Beauty-heads	✓	✓	✓
Poa labillardieri	Common Tussock-grass		✓	✓
Ptilotus macrocephalus	Feather-heads	✓		✓
Themeda triandra	Kangaroo Grass	✓		

#### SOIL 63 MIDDLE BARWON RIVER

Predominantly Ecological vegetation class Stoney Rises Herb Rich Woodland (203)

#### Trees

		DRY	WET	MOIST WELL DRAINED
Eucalyptus viminalis	Manna Gum	✓		✓

#### Shrubs

		DRY	WET	MOIST WELL DRAINED
Acacia paradoxa	Prickly Acacia	✓		
Hymenanchera dentata	Tree Violet	✓		✓

#### Groundcovers

		DRY	WET	MOIST WELL DRAINED
Austrodanthonia caespitosa	Common Wallaby-grass	✓		
Poa labillardieri	Common Tussock-grass		✓	✓
Themeda triandra	Kangaroo Grass	✓		

#### SOIL 86 MIDDLE BARWON RIVER

Predominantly Ecological vegetation class Plains Grassland (132), Plains Grassy Woodland (55) and Swamp Scrub (53)

#### Trees

		DRY	WET	MOIST WELL DRAINED
Acacia melanoxylon	Blackwood	✓		✓
Allocasuarina verticillata	Drooping Sheoak	✓		
Eucalyptus camaldulensis	River Red Gum		✓	✓

#### Shrubs

		DRY	WET	MOIST WELL DRAINED
Acacia implexa	Lightwood	✓		✓
Acacia mearnsii	Black Wattle	✓		
Acacia paradoxa	Prickly Acacia	✓	✓	
Acacia pycnantha	Golden Wattle	✓		
Dillwynia cinerascens	Grey Parrot-pea	✓		
Hymenanchera dentata	Tree Violet	✓		✓
Leptospermum continentale	Prickly Tea-tree	✓	✓	✓



DRY soils with low humus content, retaining little moisture even after rain WET soils which are saturated or spongy most of the year MOIST WELL DRAINED soils which retain some moisture but drain readily

		DRY	WET	MOIST WELL DRAINED
<b>Groundcovers</b>				
Astroloma humifusum	Cranberry Heath	✓		
Austrodanthonia caespitosa	Common Wallaby-grass	✓		
Austrodanthonia racemosa	Striped Wallaby-grass	✓		✓
Austrostipa sp.	Spear Grass	✓		
Bossiaea prostrata	Creeping Bossiaea	✓		✓
Carex breviculmis	Short-stem Sedge	✓	✓	✓
Carex inversa	Common Sedge	✓		✓
Chloris truncata	Windmill Grass	✓		
Dianella longifolia	Pale Flax-lily	✓		✓
Dianella revoluta	Black-anther Flax-lily	✓		✓
Lomandra micrantha	Small-flower Mat-rush	✓		✓
Pimelea spinescens	Plains Rice-flower	✓		
Poa labillardierei	Common Tussock-grass		✓	✓
Senecio quadridentatus	Cotton Fireweed	✓	✓	✓
Themeda triandra	Kangaroo Grass	✓		

#### SOIL 150 MIDDLE BARWON RIVER

Predominantly Ecological vegetation class Plains Grassy Woodland (55) with pockets of Aquatic Herbland/Plains Sedgy Wetland Mosaic (691) and Swampy Riparian Woodland (83)

#### Trees

Acacia melanoxylon	Blackwood	✓		✓
Allocasuarina littoralis	Black Sheoak	✓		
Allocasuarina verticillata	Drooping Sheoak	✓		
Eucalyptus camaldulensis	River Red Gum		✓	✓
Eucalyptus obliqua	Messmate	✓		
Eucalyptus ovata	Swamp Gum		✓	✓
Eucalyptus viminalis	Manna Gum	✓		✓

#### Shrubs

Acacia mearnsii	Black Wattle	✓		
Acacia paradoxa	Prickly Acacia	✓		
Acacia pycnantha	Golden Wattle	✓		
Bursaria spinosa	Sweet Bursaria	✓		✓
Hibbertia sericea	Silky Guinea-flower	✓		
Hymenanchera dentata	Tree Violet	✓		✓
Leptospermum continentale	Prickly Tea-tree	✓	✓	✓

#### Groundcovers

		DRY	WET	MOIST WELL DRAINED
Astroloma humifusum	Cranberry Heath	✓		
Austrodanthonia caespitosa	Common Wallaby-grass	✓		
Austrostipa sp	Spear Grass	✓		
Baumea acuta	Pale Twig-sedge			✓
Bossiaea prostrata	Creeping Bossiaea	✓		✓
Bulbine bulbosa	Yellow Bulbine-lily			✓
Chrysocephalum apiculatum	Common Everlasting	✓		
Dianella revoluta	Black-anther Flax-lily	✓		
Einadia nutans	Nodding Saltbush	✓		
Eleocharis acuta	Common Spike-sedge		✓	✓
Eryngium ovinum	Blue Devil			✓
Gonocarpus tetragynus	Common Raspwort	✓		✓
Isolepis nodosa	Knobby Club-sedge	✓	✓	✓
Lepidosperma congestum	Clustered Sword-sedge			✓
Lepidosperma laterale	Variable Sword-sedge	✓	✓	✓
Microlaena stipoides	Weeping Grass	✓		✓
Poa labillardierei	Common Tussock-grass		✓	✓
Poa sieberiana	Grey Tussock-grass	✓		
Sarcocornia quinqueflora	Beaded Glasswort	✓	✓	✓
Schoenus apogon	Common Bog-sedge		✓	✓
Themeda triandra	Kangaroo Grass	✓	✓	✓

#### SOIL 154 MIDDLE BARWON RIVER

Predominantly Ecological vegetation class Plains Grassy Woodland (55) with pockets of Swamp Scrub (53) and Plains Sedgy Wetland (647)

#### Groundcovers

Eragrostis infecunda	Barren Cane-Grass		✓	✓
Gahnia filum	Chaffy Saw-sedge		✓	✓
Poa labillardierei	Common Tussock-grass		✓	✓
Sarcocornia quinqueflora	Beaded Glasswort	✓	✓	✓

DRY soils with low humus content, retaining little moisture even after rain WET soils which are saturated or spongy most of the year MOIST WELL DRAINED soils which retain some moisture but drain readily

DRY WET MOIST WELL DRAINED

#### SOIL 216 MIDDLE BARWON RIVER

Predominantly Ecological vegetation class Grassy Woodland (175) and Heath Dry Forest (20)

##### Trees

Acacia melanoxylon	Blackwood	✓		✓
Eucalyptus obliqua	Messmate	✓		
Eucalyptus ovata	Swamp Gum		✓	✓
Eucalyptus radiata	Narrow-leaf Peppermint	✓		
Eucalyptus viminalis	Manna Gum	✓		✓
Eucalyptus yarraensis	Yarra Gum		✓	✓

##### Shrubs

Acacia mearnsii	Black Wattle	✓		
Acacia paradoxa	Prickly Acacia	✓		
Acacia pycnantha	Golden Wattle	✓		✓
Acacia verticillata	Prickly Moses	✓		
Hibbertia riparia	Erect Guinea-flower			✓
Leptospermum continentale	Prickly Tea-tree	✓	✓	✓
Melaleuca squarrosa	Scented Paperbark		✓	✓

##### Groundcovers

Astroloma humifusum	Cranberry Heath	✓		
Austrodanthonia setacea	Bristly Wallaby-grass	✓	✓	✓
Austrostipa sp	Spear Grass	✓		
Dianella revoluta	Black-anther Flax-lily	✓		
Gonocarpus tetragynus	Common Raspwort	✓		
Lomandra filiformis	Wattle Mat-rush	✓		✓
Pimelea curviflora	Curved Rice-flower	✓		
Pimelea spinescens	Plains Rice-flower	✓		
Poa labillardierei	Common Tussock-grass		✓	✓
Themeda triandra	Kangaroo Grass	✓		
Xanthorrhoea australis	Austral Grass-tree	✓		
Xanthorrhoea minor	Small Grass-tree	✓		



DRY WET MOIST WELL DRAINED

#### SOIL 219 MIDDLE BARWON RIVER

Predominantly Ecological vegetation class Grassy Woodland (175) and a pocket of Grassy Woodland (55) and wet areas with Sedgy Riparian Woodland (198)

##### Trees

Allocasuarina verticillata	Drooping Sheoak	✓		
Eucalyptus viminalis	Manna Gum	✓		✓

##### Shrubs

Acacia mearnsii	Black Wattle	✓		
Acacia paradoxa	Prickly Acacia	✓		
Acacia pycnantha	Golden Wattle	✓		✓
Bursaria spinosa	Sweet Bursaria	✓		✓
Hymenanthera dentata	Tree Violet	✓		✓

##### Groundcovers

Astroloma humifusum	Cranberry Heath	✓		
Austrostipa sp	Spear Grass	✓		
Eryngium ovinum	Blue Devil			✓
Gonocarpus tetragynus	Common Raspwort	✓		
Senecio spathulatus	Coast Groundsel	✓		
Themeda triandra	Kangaroo Grass	✓	✓	✓

#### SOIL 225 MIDDLE BARWON RIVER

Predominantly Ecological vegetation class Plains Grassland (132) and Grassy Woodland (55)

Use Middle Barwon River Soil 7 list.

DRY soils with low humus content, retaining little moisture even after rain WET soils which are saturated or spongy most of the year MOIST WELL DRAINED soils which retain some moisture but drain readily



Landscape Zone 3 - Murdeduke  
 Soil Zones



## Landscape Zone 3

### Murdeduke

Murdeduke Landscape Zone lies in the north west of the Shire and covers the area surrounding Lake Murdeduke. It includes the open plains which extend from the Princes Highway north to the Warrambine Creek.

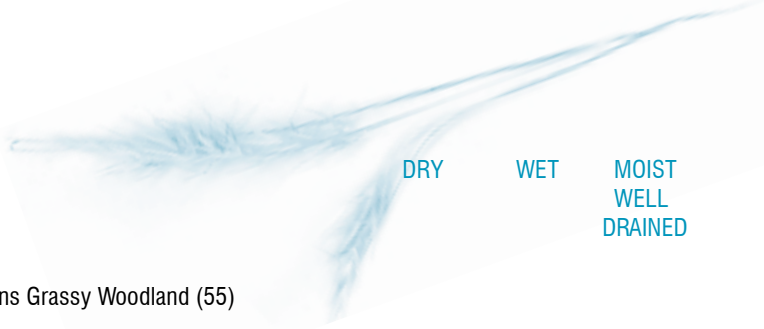
#### SOIL 49 AND 79 MURDEDUKE

Soil 49 is predominantly Ecological vegetation class Grassy Woodland (175) and a small area of Plains Grassy Woodland (55)

Soil 79 is predominantly Ecological vegetation class Plains Grassy Woodland (55) with pockets of Plains Sedgy Wetland (647), Aquatic Herbland/Plains Sedgy Wetland Mosaic (691) and Plains Grassy Wetland (125)

	DRY	WET	MOIST WELL DRAINED
<b>Trees</b>			
Acacia melanoxylon	✓		✓
Eucalyptus camaldulensis		✓	✓
Eucalyptus ovata		✓	✓
Eucalyptus yarraensis		✓	✓
Ozothamnus ferruginous			✓
<b>Shrubs</b>			
Acacia mearnsii	✓		
Acacia verticillata	✓		
Bursaria spinosa	✓		✓
Callistemon sieberi		✓	✓
Gynatrix pulchella		✓	✓
Hymenanchera dentata	✓		✓
Leptospermum lanigerum		✓	✓
Leptospermum obovatum		✓	✓
Muehlenbeckia cunninghamii		✓	✓
<b>Ground covers</b>			
Austroanthonia caespitosa	✓		
Poa labillardieri		✓	✓
Blackwood			✓
River Red Gum		✓	✓
Swamp Gum		✓	✓
Yarra Gum		✓	✓
Tree Everlasting			✓
Black Wattle	✓		
Prickly Moses	✓		
Sweet Bursaria	✓		✓
River Bottlebrush		✓	✓
Hemp Bush		✓	✓
Tree Violet	✓		✓
Woolly Tea-tree		✓	✓
River Tea-tree		✓	✓
Tangled Lignum (near Lake Murdeduke)		✓	✓
Common Wallaby-grass	✓		
Common Tussock-grass		✓	✓

DRY soils with low humus content, retaining little moisture even after rain WET soils which are saturated or spongy most of the year MOIST WELL DRAINED soils which retain some moisture but drain readily

		DRY	WET	MOIST WELL DRAINED			DRY	WET	MOIST WELL DRAINED
Ptilotus macrocephalus	Feather-heads	✓		✓					
Themeda triandra	Kangaroo Grass	✓							
<b>SOIL 63 MURDEDUKE</b>					<b>SOIL 109 MURDEDUKE</b>				
Ecological vegetation class Stoney Rises Herb Rich Woodland (203)					Ecological vegetation class Plains Grassy Woodland (55)				
<b>Trees</b>					<b>Shrubs</b>				
Eucalyptus viminalis	Manna Gum	✓		✓	Acacia paradoxa	Prickly Acacia	✓		
<b>Shrubs</b>					<b>Groundcovers</b>				
Acacia paradoxa	Prickly Acacia	✓			Austrostipa sp.	Spear Grass	✓		
Hymenanthera dentata	Tree Violet	✓		✓	Dianella revoluta	Black-anther Flax-lily	✓		
<b>Groundcovers</b>					<b>Groundcovers</b>				
Austrodanthonia caespitosa	Common Wallaby-grass	✓			Eragrostis infecunda	Barren Cane-grass		✓	✓
Poa labillardieri	Common Tussock-grass		✓	✓	Poa labillardieri	Common Tussock-grass		✓	✓
Themeda triandra	Kangaroo Grass	✓	✓	✓	Themeda triandra	Kangaroo Grass	✓	✓	✓
<b>SOIL 81 MURDEDUKE</b>									
Ecological vegetation class Plains Grassy Woodland (55) and Swamp Scrub (53)									
<b>Trees</b>									
Acacia melanoxylon	Blackwood	✓		✓					
<b>Shrubs</b>									
Acacia paradoxa	Prickly Acacia	✓							
Hymenanthera dentata	Tree Violet	✓		✓					
<b>Groundcovers</b>									
Eleocharis acuta	Common Spike-sedge		✓	✓					
Eragrostis infecunda	Barren Cane-grass		✓	✓					
Lomandra longifolia	Spiny-headed Mat-rush	✓	✓	✓					
Poa labillardieri	Common Tussock-grass		✓	✓					
Themeda triandra	Kangaroo Grass	✓	✓	✓					

DRY soils with low humus content, retaining little moisture even after rain WET soils which are saturated or spongy most of the year MOIST WELL DRAINED soils which retain some moisture but drain readily



Landscape Zone 4 - Southern Otway  
Soil Zones



Not to Scale



## Landscape Zone 4

### Southern Otway

The majority of the Southern Otway Landscape Zone is wet and shrubby dry forest contained on public land. This area forms a significant part of the water catchment area for the coastal township of Lorne. The soils in this zone are deep and moist, encouraging the growth of very tall trees. The understorey plants are suited to the cooler conditions and decreased availability of sunlight. This zone has been divided into northern and southern sections, reflecting the change from drier forest in the south to wetter forest in the north.

#### SOIL 159 SOUTHERN OTWAY

##### 159 A (SOUTHERN SECTION)

Ecological vegetation class Shrubby Foothill Forest (45), Grassy Dry Forest (22), Shrubby Dry Forest (21), Coastal Headland Scrub (161)

	DRY	WET	MOIST WELL DRAINED
<b>Trees</b>			
Acacia melanoxylon	✓		
Eucalyptus aromaphloia	✓		
Eucalyptus baxteri	✓		
Eucalyptus cypellocarpa	✓		✓
Eucalyptus globulus ssp globulus	✓		✓
Eucalyptus obliqua	✓		
Eucalyptus ovata		✓	✓
Eucalyptus radiata	✓		
Eucalyptus tricarpa	✓		
Eucalyptus viminalis	✓		✓
Ozothamnus ferrugineus			✓
Blackwood			✓
Scentbark	✓		
Brown Stringybark	✓		
Mountain Grey Gum	✓		
Southern Blue Gum	✓		
Messmate	✓		
Swamp Gum		✓	✓
Narrow-leaf Peppermint	✓		
Red Ironbark	✓		
Manna Gum	✓		✓
Tree Everlasting			✓
<b>Shrubs</b>			
Acacia mucronata	✓		✓
Acacia stricta	✓		
Acacia verniciflua	✓		
Acacia verticillata	✓		
Banksia marginata	✓		
Cassinia aculeata			✓
Coprosma quadrifida		✓	✓
Correa lawrenciana			✓
Correa reflexa	✓		
Epacris impressa	✓		
Narrow-leaf Wattle	✓		
Hop Wattle	✓		
Varnish Wattle	✓		
Prickly Moses			
Silver Banksia	✓		
Dogwood			✓
Prickly Currant-bush		✓	✓
Mountain Correa			✓
Common Correa	✓		
Common Heath	✓		

DRY soils with low humus content, retaining little moisture even after rain WET soils which are saturated or spongy most of the year MOIST WELL DRAINED soils which retain some moisture but drain readily

		DRY	WET	MOIST WELL DRAINED			DRY	WET	MOIST WELL DRAINED
Goodenia ovata	Hop Goodenia	✓	✓	✓	Eucalyptus regnans	Mountain Ash			
Gynatrix pulchella	Hemp Bush			✓	Eucalyptus viminalis	Manna Gum	✓		✓
Leptospermum continentale	Prickly Tea-tree	✓	✓	✓	Ozothamnus ferrugineus	Tree Everlasting	✓		✓
Leptospermum scoparium	Manuka			✓					
Leucopogon parviflorus	Coast Beard-heath	✓			<b>Shrubs</b>				
Olearia argophylla	Musk Daisy-bush			✓	Bedfordia arborescens	Blanket Leaf		✓	✓
Olearia lirata	Snow Daisy-bush		✓	✓	Coprosma quadrifida	Prickly Currant-bush		✓	✓
Olearia phlogopappa	Dusty Daisy-bush			✓	Correa lawrenciana	Mountain Correa			✓
Pomaderris aspera	Hazel Pomaderris			✓	Goodenia ovata	Hop Goodenia		✓	✓
Pultenaea daphnoides	Large-leaf Bush-pea	✓			Hakea ulicina	Furze Hakea	✓		
Spyridium parvifolium	Dusty Miller	✓		✓	Hedycarya angustifolia	Austral Mulberry		✓	✓
					Indigofera australis	Austral Indigo	✓		✓
<b>Groundcovers</b>					Lomatia fraseri	Tree Lomatia			✓
Acrotriche serrulata	Honey-pots	✓			Notolaea ligustrina	Privet Mock-olive		✓	✓
Austrodanthonia caespitosa	Common Wallaby-grass	✓			Olearia argophylla	Musk Daisy-bush		✓	✓
Carex breviculmis	Short-stem Sedge	✓	✓	✓	Olearia lirata	Snow Daisy-bush		✓	✓
Dianella calicarpa	Swamp Flax-lily		✓	✓	Persoonia juniperina	Prickly Geebung	✓		
Gonocarpus tetragynus	Common Raspwort	✓		✓	Phebalium squameum	Satinwood			✓
Goodenia lanata	Trailing Goodenia	✓			Pimelea axiflora	Bootlace Bush	✓		
Lepidosperma elatius	Tall Sword-sedge		✓	✓	Pimelea ligustrina	Tall Rice-flower			✓
Lomandra filiformis	Wattle Mat-rush	✓		✓	Pittosporum bicolor	Banyalla			✓
Lomandra longifolia	Spiny-headed Mat-rush	✓		✓	Pomaderris aspera	Hazel Pomaderris		✓	✓
Lomandra longifolia spp exilis	Cluster-headed Mat-rush	✓		✓	Prostanthera lasianthos	Victorian Christmas-bush		✓	✓
Poa labillardieri	Common Tussock-grass		✓	✓	Prostanthera melissifolia	Balm Mint-bush			✓
Poa morrisii	Soft Tussock-grass	✓			Zieria arborescens	Stinkwood			✓
Poa poiformis	Blue Tussock-grass	✓							
Poa sieberiana	Grey Tussock-grass	✓		✓	<b>Groundcovers</b>				
					Bulbine bulbosa	Yellow Bulbine-lily			✓
					Dianella tasmanica	Tasman Flax-lily			✓
					Lepidosperma elatius	Tall Sword-sedge		✓	✓
					Patersonia fragilis	Short Purple-flag			✓
<b>159B (NORTHERN SECTION)</b>									
Ecological vegetation classes Shrubby Wet Forest (201), Wet Forest (30), Cool Temperate Rainforest (31)									
<b>Trees</b>									
Acacia melanoxylon	Blackwood	✓		✓					
Eucalyptus brookerana	Brookers Gum			✓					
Eucalyptus cypellocarpa	Mountain Grey Gum	✓		✓					
Eucalyptus globulus ssp globulus	Southern Blue Gum	✓		✓					
Eucalyptus obliqua	Messmate	✓							









DRY soils with low humus content, retaining little moisture even after rain WET soils which are saturated or spongy most of the year MOIST WELL DRAINED soils which retain some moisture but drain readily

		DRY	WET	MOIST WELL DRAINED			DRY	WET	MOIST WELL DRAINED
Goodenia geniculata	Bent Goodenia	✓	✓	✓	Leptospermum scoparium	Manuka			✓
Helichrysum scorpioides	Button Everlasting	✓			Leucopogon parviflorus	Coastal Beard-heath	✓		
Isopogon ceratophyllus	Horny Cone-bush	✓			Olearia axillaris	Coast Daisy-bush	✓		
Lepidosperma congestum	Clustered Sword-sedge			✓	Pomaderris aspera	Hazel Pomaderris		✓	✓
Lepidosperma laterale	Variable Sword-sedge	✓	✓	✓	<b>Groundcovers</b>				
Lepidosperma semiteres	Wire Rapier-sedge		✓	✓	Austrodanthonia setacea	Bristly Wallaby-grass	✓	✓	✓
Lomandra filiformis	Wattle Mat-rush	✓		✓	Brachycome parvula	Coast Daisy		✓	
Lomandra longifolia	Spiny-headed Mat-rush	✓	✓	✓	Carex appressa	Tall Sedge		✓	✓
Lomandra multiflora	Many-flowered Mat-rush	✓		✓	Gahnia trifida	Coast Saw-sedge			✓
Lomatia ilicifolia	Holly Lomatia	✓			Lepidosperma gladiatum	Coast Sword-sedge	✓		
Microlaena stipoides	Weeping Grass	✓		✓	Poa poiformis	Blue Tussock-grass	✓		
Pimelea curviflora	Curved Rice-flower	✓							
Pimelea glauca	Smooth Rice-flower	✓			<b>SOIL 65 THOMPSON CREEK</b>				
Poa labillardierei	Common Tussock-grass		✓	✓	Ecological vegetation class Plains Grassy Woodland (55)				
Poa sieberiana	Grey Tussock-grass	✓			<b>Trees</b>				
Pultenaea humilis	Dwarf Bush-pea			✓	Acacia melanoxylon	Blackwood	✓		✓
Rhagodia candolleana	Seaberry Saltbush	✓			Allocasuarina littoralis	Black Sheoak	✓		
Tetragonia implexicoma	Bower Spinach	✓			Eucalyptus leucoxydon	Yellow Gum	✓		
Themeda triandra	Kangaroo Grass	✓	✓	✓	Eucalyptus ovata	Swamp Gum		✓	✓
Viola hederacea	Ivy-leaf Violet		✓	✓	Eucalyptus viminalis	Manna Gum	✓		✓
Wahlenbergia stricta	Tall Bluebell	✓		✓					
Xanthorrhoea australis	Austral Grass-tree	✓			<b>Shrubs</b>				
Xanthorrhoea minor	Small Grass-tree	✓			Acacia mearnsii	Black Wattle	✓		
					Banksia marginata	Silver Banksia	✓		
<b>SOIL 20 THOMPSON CREEK</b>					<b>Groundcovers</b>				
Painkalac Valley					Astroloma humifusum	Cranberry Heath	✓		
Ecological vegetation class Coastal Tussock-Grassland (163) and Swampy Riparian Woodland (83)					Acrotriche serrulata	Honey-pots	✓		
<b>Trees</b>					Tricoryne elatior	Yellow Rush-lily	✓		✓
Acacia melanoxylon	Blackwood	✓		✓	Bossiaea prostrata	Creeping Bossiaea	✓		✓
Eucalyptus ovata	Swamp Gum		✓	✓	Austrostipa sp	Spear Grass	✓		
Eucalyptus viminalis	Manna Gum	✓		✓	Austrodanthonia caespitosa	Common Wallaby-grass	✓		
<b>Shrubs</b>					Themeda triandra	Kangaroo Grass	✓	✓	✓
Acacia dealbata	Silver Wattle		✓	✓	Dianella revoluta	Black-anther Flax-lily	✓		
Banksia marginata	Silver Banksia	✓			Lepidosperma laterale	Variable Sword-sedge	✓	✓	✓
Coprosma quadrifida	Prickly Currant-bush		✓	✓					

DRY soils with low humus content, retaining little moisture even after rain WET soils which are saturated or spongy most of the year MOIST WELL DRAINED soils which retain some moisture but drain readily

### SOIL 150 THOMPSON CREEK

Ecological vegetation class Plains Grassy Woodland (55) with pockets of Swampy Riparian Woodland (83), Grassy Woodland (175) and Plains Grassland (132)

#### Trees

		DRY	WET	MOIST WELL DRAINED
Acacia melanoxylon	Blackwood	✓		✓
Allocasuarina littoralis	Black Sheoak	✓		
Allocasuarina verticillata	Drooping Sheoak	✓		
Eucalyptus camaldulensis	River Red Gum		✓	✓
Eucalyptus leucoxylon	Yellow Gum (in Connewarre area only)		✓	
Eucalyptus obliqua	Messmate	✓		
Eucalyptus ovata	Swamp Gum		✓	✓
Eucalyptus viminalis	Manna Gum	✓		✓

#### Shrubs

		DRY	WET	MOIST WELL DRAINED
Acacia implexa	Lightwood	✓		✓
Acacia mearnsii	Black Wattle	✓		
Acacia paradoxa	Prickly Acacia	✓		
Acacia pycnantha	Golden Wattle	✓		✓
Bursaria spinosa	Sweet Bursaria	✓		✓
Goodenia geniculata	Bent Goodenia	✓	✓	✓
Hibbertia sericea	Silky Guinea-flower	✓		
Hymenandra dentata	Tree Violet	✓		✓
Leptospermum continentale	Prickly Tea-tree	✓	✓	✓

#### Groundcovers

		DRY	WET	MOIST WELL DRAINED
Astroloma humifusum	Cranberry Heath	✓		
Austrodanthonia caespitosa	Common Wallaby-grass	✓		
Austrostipa sp	Spear Grass	✓		
Baumea acuta	Pale Twig-sedge			✓
Bossiaea prostrata	Creeping Bossiaea	✓		✓
Bulbine bulbosa	Yellow Bulbine-lily			✓
Chrysocephalum apiculatum	Common Everlasting	✓		
Dianella revoluta	Black-anther Flax-lily	✓		
Einadia nutans	Nodding Saltbush	✓		
Eleocharis acuta	Common Spike-sedge		✓	✓
Eryngium ovinum	Blue Devil			✓
Gonocarpus tetragynus	Common Raspwort	✓		

		DRY	WET	MOIST WELL DRAINED
Isolepis nodosa	Knobby Club-sedge			✓
Lepidosperma congestum	Clustered Sword-sedge			✓
Lepidosperma laterale	Variable Sword-sedge	✓	✓	✓
Microlaena stipoides	Weeping Grass	✓		✓
Pimelea curviflora	Curved Rice-flower	✓		
Pimelea glauca	Smooth Rice-flower	✓		
Poa labillardierei	Common Tussock-grass		✓	✓
Poa sieberiana	Grey Tussock-grass	✓		
Sarcocornia quinqueflora	Beaded Glasswort	✓	✓	✓
Schoenus apogon	Common Bog-sedge		✓	✓
Themeda triandra	Kangaroo Grass	✓		

### SOIL 210 THOMPSON CREEK

Ecological vegetation class Grassy Woodland (175) and a small amount of Plains Grassland (132) and Plains Grassy Woodland (55)

#### Trees

		DRY	WET	MOIST WELL DRAINED
Acacia melanoxylon	Blackwood	✓		✓
Allocasuarina littoralis	Black Sheoak	✓		
Allocasuarina verticillata	Drooping Sheoak	✓		
Eucalyptus ovata	Swamp Gum		✓	✓
Eucalyptus viminalis	Manna Gum	✓		✓

#### Shrubs

		DRY	WET	MOIST WELL DRAINED
Acacia implexa	Lightwood	✓		✓
Acacia mearnsii	Black Wattle	✓		
Acacia paradoxa	Prickly Acacia	✓		
Acacia pycnantha	Golden Wattle	✓		✓
Bursaria spinosa	Sweet Bursaria	✓		✓
Cassinia longifolia	Shiny Cassinia			✓
Leptospermum continentale	Prickly Tea-tree	✓	✓	✓

#### Groundcovers

		DRY	WET	MOIST WELL DRAINED
Astroloma humifusum	Cranberry Heath	✓		
Austrodanthonia caespitosa	Common Wallaby-grass	✓		
Austrostipa sp	Spear Grass	✓		





**DRY** soils with low humus content, retaining little moisture even after rain **WET** soils which are saturated or spongy most of the year **MOIST WELL DRAINED** soils which retain some moisture but drain readily

		DRY	WET	MOIST WELL DRAINED			DRY	WET	MOIST WELL DRAINED
Goodenia geniculata	Bent Goodenia	✓	✓	✓	Eucalyptus radiata	Narrow-leaf Peppermint	✓		
Goodenia lanata	Trailing Goodenia	✓			Eucalyptus viminalis	Manna Gum	✓		✓
Helichrysum scorpioides	Button Everlasting	✓			Eucalyptus willisii	Shining Peppermint	✓		
Isopogon ceratophyllus	Horny Cone-bush	✓			Eucalyptus yarraensis	Yarra Gum		✓	✓
Lepidosperma semiteres	Wire Rapier-sedge		✓	✓	Ozothamnus ferrugineus	Tree Everlasting	✓		✓
Linum marginale	Native Flax			✓					
Lomandra filiformis	Wattle Mat-rush	✓		✓	<b>Shrubs</b>				
Lomandra micrantha	Small-flowered Mat-rush	✓		✓	Acacia mearnsii	Black Wattle	✓		
Microlaena stipoides	Weeping Grass	✓		✓	Acacia myrtifolia	Myrtle Wattle	✓		✓
Patersonia fragilis	Short Purple-flag			✓	Acacia paradoxa	Prickly Acacia	✓		
Pimelia linifolia	Slender Rice-flower	✓			Acacia pycnantha	Golden Wattle	✓		✓
Pimelia octophylla	Woolly Rice-flower	✓			Acacia stricta	Hop Wattle	✓		
Poa labillardierei	Common Tussock-grass		✓	✓	Acacia suaveolens	Sweet Wattle	✓		
Poa morrisii	Soft Tussock-grass	✓			Acacia verniciflua	Varnish Wattle	✓		✓
Poa sieberiana	Grey Tussock-grass	✓			Acacia verticillata	Prickly Moses	✓	✓	✓
Pultenaea humilis	Dwarf Bush-pea			✓	Allocasuarina misera	Slender Sheoak	✓		
Sphaerolobium vimineum	Leafless Globe-pea			✓	Argentipallium obtusifolium	Blunt Everlasting	✓		✓
Tetragonia implexicoma	Bower Spinach	✓			Banksia marginata	Silver Banksia	✓		
Themeda triandra	Kangaroo Grass	✓	✓	✓	Bursaria spinosa	Sweet Bursaria	✓		✓
Viola hederacea	Ivy-leaf Violet		✓	✓	Cassinia longifolia	Shiny Cassinia			✓
Wahlenbergia stricta	Tall Bluebell	✓			Dillwynia cinerascens	Grey Parrot-pea	✓		
Xanthorrhoea australis	Austral Grass-tree	✓			Dillwynia sericea	Showy Parrot-pea	✓		
Xanthorrhoea minor	Small Grass-tree	✓			Epacris impressa	Common Heath	✓		
					Grevillea infecunda	Anglesea Grevillea	✓		
<b>SOIL 214 THOMPSON CREEK</b>					Hakea ulicina	Furze Hakea	✓		
Ecological vegetation class Grassy Woodland (175), Lowland Forest (16), Heathy Woodland/Sand Heath Mosaic (892) and Heathy Woodland (48)					Hibbertia riparia	Erect Guinea-flower			✓
					Hibbertia sericea	Silky Guinea-flower	✓		
<b>Trees</b>					Hymenanthera dentata	Tree Violet	✓		✓
Acacia melanoxylon	Blackwood	✓		✓	Leptospermum continentale	Prickly Tea-tree	✓	✓	✓
Allocasuarina littoralis	Black Sheoak	✓			Leptospermum myrsinoides	Heath Tea-tree	✓		✓
Allocasuarina paludosa	Scrub Sheoak			✓	Leptospermum scoparium	Manuka			✓
Allocasuarina verticillata	Drooping Sheoak	✓			Leucopogon parviflorus	Coast Beard-heath	✓		
Eucalyptus aromaphloia	Scentbark	✓			Leucopogon virgatus	Common Beard-heath	✓		
Eucalyptus obliqua	Messmate	✓			Melaleuca squarrosa	Scented Paperbark		✓	✓
Eucalyptus ovata	Swamp Gum		✓	✓	Platylobium obtusangulum	Common Flat-pea	✓		
Eucalyptus pauciflora ssp. pauciflora	Snow Gum	✓			Pomaderris racemosa	Slender Pomaderris	✓		

DRY soils with low humus content, retaining little moisture even after rain WET soils which are saturated or spongy most of the year MOIST WELL DRAINED soils which retain some moisture but drain readily

		DRY	WET	MOIST WELL DRAINED
<b>Groundcovers</b>				
Acrotriche prostrata	Trailing Ground-berry			✓
Acrotriche serrulata	Honey-pots	✓		
Austrodanthonia caespitosa	Common Wallaby-grass	✓		
Austrostipa mollis	Supple Spear-grass	✓		
Brachyscome multifida	Cut-leaf Daisy		✓	✓
Bulbine bulbosa	Yellow Bulbine-lily			✓
Dianella revoluta	Black-anther Flax-lily	✓		
Gompholobium ecostatum	Dwarf Wedge-pea			✓
Gonocarpus tetragynus	Common Raspwort	✓		
Goodenia geniculata	Bent Goodenia	✓	✓	✓
Goodenia lanata	Trailing Goodenia	✓		
Helichrysum scorpioides	Button Everlasting	✓		
Lepidosperma congestum	Clustered Sword-sedge			✓
Lepidosperma semiteres	Wire Rapier-sedge		✓	✓
Lomandra filiformis	Wattle Mat-rush	✓		✓
Lomandra longifolia	Spiny-headed Mat-rush	✓	✓	✓
Lomandra multiflora	Many-flowered Mat-rush	✓		✓
Lomandra nana	Dwarf Mat-rush	✓		
Lomatia ilicifolia	Holly Lomatia	✓		✓
Patersonia fragilis	Short Purple-flag			✓
Persoonia juniperina	Prickly Geebung	✓		
Poa labillardierei	Common Tussock-grass		✓	✓
Poa morrisii	Soft Tussock-grass	✓		
Poa sieberiana	Grey Tussock-grass	✓		✓
Pultenaea humilis	Dwarf Bush-pea	✓		✓
Sphaerolobium vimineum	Leafless Globe-pea	✓		✓
Themeda triandra	Kangaroo Grass	✓		
Viola hederacea	Ivy-leaf Violet		✓	✓
Wahlenbergia stricta	Tall Bluebell	✓		
Xanthorrhoea australis	Austral Grass-tree	✓		
Xanthorrhoea minor	Small Grass-tree	✓		

## SOIL 215 THOMPSON CREEK

### EAST OF PAINKALAC VALLEY

Ecological vegetation class Heathy Woodland/Sand Heath Mosaic (892), Sand Heathland (6), Shrubby Dry Forest (21), Lowland Forest (16), Riparian Scrub Complex (17), Coastal Headland Scrub (161), Coastal Dune Scrub Mosaic (1) and Damp Sands Herb-rich Woodland (3). Very isolated patches of Calcarene Dune Woodland (858) and Estuarine Wetland (10) occur on the coast near Anglesea.

### Trees

		DRY	WET	MOIST WELL DRAINED
Eucalyptus aromaphloia	Scentbark			✓
Eucalyptus baxteri	Brown Stringybark			✓
Eucalyptus obliqua	Messmate			✓
Eucalyptus radiata	Narrow-leaf Peppermint			✓

### Shrubs

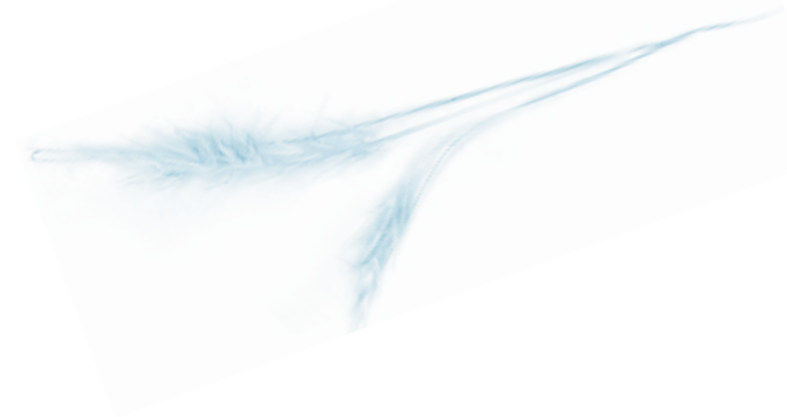
		DRY	WET	MOIST WELL DRAINED
Acacia myrtifolia	Myrtle Wattle	✓		✓
Acacia verticillata	Prickly Moses	✓	✓	✓
Aotus ericoides	Common Aotus	✓		✓
Banksia marginata	Silver Banksia	✓		
Correa reflexa	Common Correa	✓		
Dillwynia glaberrima	Smooth Parrot-pea	✓		
Epacris impressa	Common Heath	✓		
Hibbertia riparia	Erect Guinea-flower	✓		✓
Leptospermum continentale	Prickly Tea-tree	✓	✓	✓
Leptospermum myrsinoides	Heath/Silky Tea-tree	✓		✓
Leptospermum scoparium	Manuka			✓
Leucopogon parviflorus	Coastal Beard-heath	✓		
Platylobium obtusangulum	Common Flat-pea	✓		
Spyridium parvifolium	Dusty Miller	✓		✓

### Groundcovers

		DRY	WET	MOIST WELL DRAINED
Acrotriche serrulata	Honey-pots	✓		
Carex breviculmis	Short-stem Sedge	✓	✓	✓
Dianella revoluta	Black-anther Flax-lily	✓		
Gompholobium ecostatum	Dwarf Wedge-pea			✓
Gonocarpus tetragynus	Common Raspwort	✓		✓
Goodenia geniculata	Bent Goodenia	✓	✓	✓
Goodenia lanata	Trailing Goodenia	✓		
Helichrysum scorpioides	Button Everlasting	✓		
Lepidosperma filiforme	Common Rapier-sedge		✓	✓



DRY soils with low humus content, retaining little moisture even after rain WET soils which are saturated or spongy most of the year MOIST WELL DRAINED soils which retain some moisture but drain readily



DRY      WET      MOIST  
WELL  
DRAINED

#### SOIL 219 THOMPSON CREEK

Ecological vegetation class Grassy Woodland (175) with small areas of Sedgy Riparian Woodland (198) and Floodplain Riparian Woodland (56) on drainage lines

##### Trees

Acacia melanoxylon	Blackwood	✓		✓
Allocasuarina verticillata	Drooping Sheoak	✓		
Eucalyptus ovata	Swamp Gum		✓	✓
Eucalyptus viminalis	Manna Gum	✓		✓

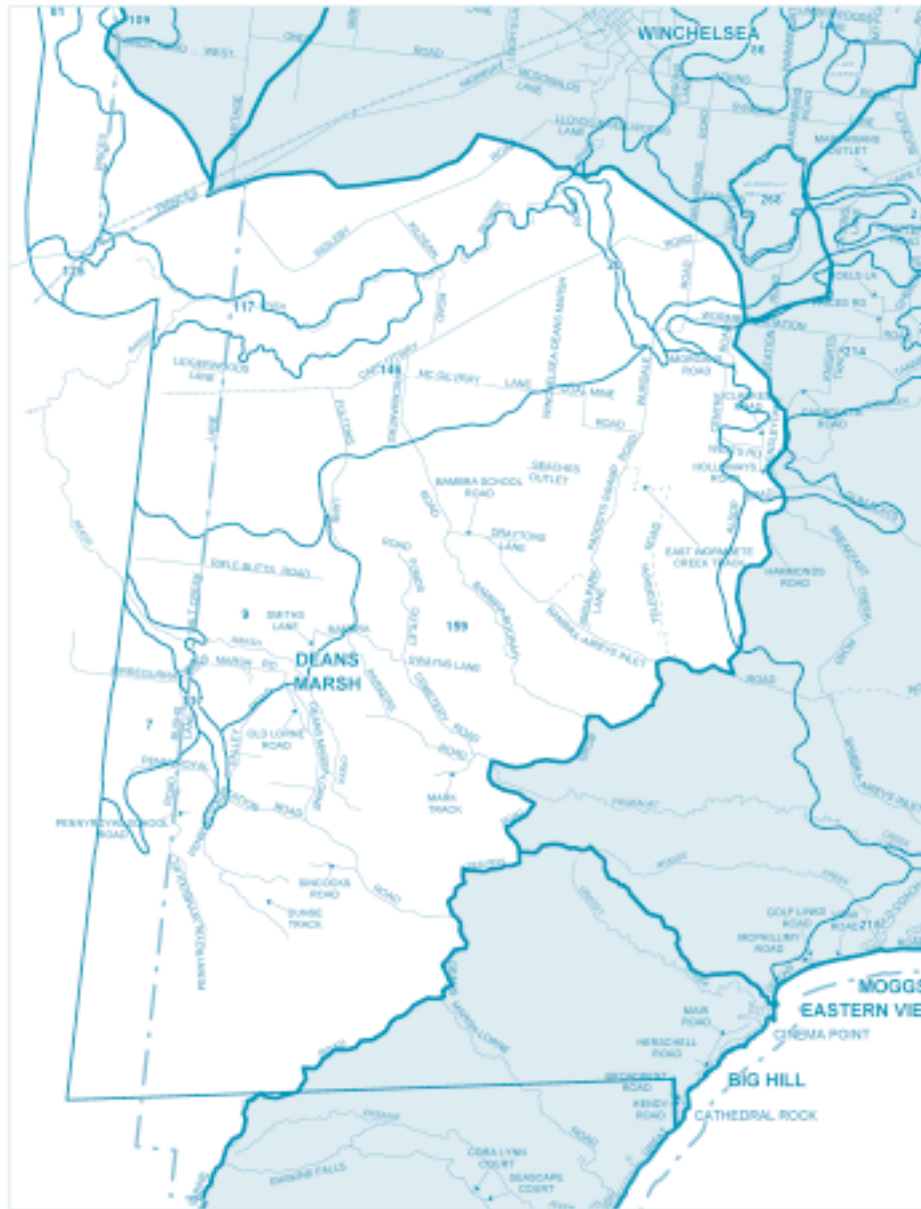
##### Shrubs

Acacia mearnsii	Black Wattle	✓		
Acacia myrtifolia	Myrtle Wattle	✓		✓
Acacia paradoxa	Prickly Acacia	✓		
Acacia pycnantha	Golden Wattle	✓		
Bursaria spinosa	Sweet Bursaria	✓		✓
Epacris impressa	Common Heath	✓		
Leptospermum continentale	Prickly Tea-tree	✓	✓	✓

##### Groundcovers

Austrostipa sp	Spear Grass	✓		
Bossiaea prostrata	Creeping Bossiaea	✓		
Dianella revoluta	Black-anther Flax-lily	✓		
Gonocarpus tetragynus	Common Raspwort	✓		✓
Lomandra longifolia	Spiny-headed Mat-rush	✓	✓	✓
Poa labillardieri	Common Tussock-grass		✓	✓
Themeda triandra	Kangaroo Grass	✓	✓	✓

DRY soils with low humus content, retaining little moisture even after rain WET soils which are saturated or spongy most of the year MOIST WELL DRAINED soils which retain some moisture but drain readily



Landscape Zone 6 - Upper Barwon Soil Zones



# Landscape Zone 6

## Upper Barwon

The Upper Barwon Landscape Zone takes in the Deans Marsh/Bamba/Wurdale/Wensleydale area. The Barwon River forms the most significant waterway in this zone.

### SOIL 7 AND 9 UPPER BARWON

Ecological vegetation class Grassy Woodland (175)

	DRY	WET	MOIST WELL DRAINED
<b>Trees</b>			
Acacia melanoxylon	✓		✓
Allocasuarina littoralis	✓		
Allocasuarina verticillata	✓		
Eucalyptus obliqua	✓		
Eucalyptus ovata		✓	✓
Eucalyptus radiata	✓		
Eucalyptus viminalis	✓		✓
Eucalyptus yarraensis		✓	✓
<b>Shrubs</b>			
Acacia mearnsii	✓		
Acacia paradoxa	✓		
Acacia pycnantha	✓		
Acacia verticillata	✓		
Bursaria spinosa	✓		✓
Leptospermum continentale	✓	✓	✓
<b>Ground covers</b>			
Austroanthonia caespitosa	✓		
Austrostipa sp	✓		
Poa labillardieri		✓	✓
Themeda triandra	✓		

DRY soils with low humus content, retaining little moisture even after rain WET soils which are saturated or spongy most of the year MOIST WELL DRAINED soils which retain some moisture but drain readily

DRY WET MOIST WELL DRAINED

#### SOIL 8 AND 20 UPPER BARWON

Ecological vegetation class Floodplain Riparian Woodland (56) and Grassy Woodland (175)

##### Trees

Acacia melanoxyylon	Blackwood	✓	✓
Allocasuarina littoralis	Black Sheoak	✓	
Allocasuarina verticillata	Drooping Sheoak	✓	
Eucalyptus obliqua	Messmate	✓	
Eucalyptus ovata	Swamp Gum		✓
Eucalyptus pauciflora ssp pauciflora	Snow Gum (isolated)	✓	
Eucalyptus viminalis	Manna Gum	✓	
Eucalyptus yarraensis	Yarra Gum		✓
Eucalyptus camaldulensis	River Red Gum (North of Cape Otway Rd only)	✓	✓

##### Shrubs

Acacia mearnsii	Black Wattle	✓	
Acacia paradoxa	Prickly Acacia	✓	
Acacia pycnantha	Golden Wattle	✓	✓
Acacia stricta	Hop Wattle	✓	
Acacia verticillata	Prickly Moses	✓	✓
Banksia marginata	Silver Banksia	✓	
Bursaria spinosa	Sweet Bursaria	✓	✓
Goodenia ovata	Hop Goodenia	✓	✓
Gynatrix pulchella	Hemp Bush		✓
Hakea ulicina	Furze Hakea	✓	
Hymenanchera dentata	Tree Violet	✓	✓
Leptospermum continentale	Prickly Tea-tree	✓	✓
Pomaderris racemosa	Slender Pomaderris	✓	
Viminaria juncea	Golden Spray		✓

##### Groundcovers

Austrodanthonia caespitosa	Common Wallaby-grass	✓	
Austrostipa sp	Spear Grass	✓	
Carex appressa	Tall Sedge		✓
Dianella revoluta	Black-anther Flax-lily	✓	
Eryngium ovinum	Blue Devil		✓
Lomandra longifolia	Spiny-headed Mat-rush	✓	✓
Poa labillardieri	Common Tussock-grass		✓

Poa sieberiana  
Themeda triandra

Grey Tussock-grass  
Kangaroo Grass

DRY WET MOIST WELL DRAINED

✓ ✓ ✓  
✓ ✓ ✓

#### SOIL 46 UPPER BARWON

Ecological vegetation class Floodplain Riparian Woodland (56)

##### Trees

Acacia melanoxyylon	Blackwood	✓	✓
Eucalyptus camaldulensis	River Red Gum		✓

##### Shrubs

Acacia mearnsii	Black Wattle	✓	
Acacia verticillata	Prickly Moses	✓	
Bursaria spinosa	Sweet Bursaria	✓	✓
Callistemon sieberi	River Bottlebrush		✓
Hymenanchera dentata	Tree Violet	✓	✓
Gynatrix pulchella	Hemp Bush		✓
Leptospermum lanigerum	Woolly Tea-tree		✓
Leptospermum obovatum	River Tea-tree		✓
Muehlenbeckia cunninghamii	Tangled Lignum		✓

##### Groundcovers

Poa labillardieri	Common Tussock-grass		✓
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#### SOIL 79, 117 AND 146 UPPER BARWON


Ecological vegetation class Floodplain Riparian Woodland (56), Swamp Scrub (53), Plains Grassy Woodland (55) and Grassy Woodland (175)

##### Trees

Acacia melanoxyylon	Blackwood	✓	✓
Allocasuarina littoralis	Black Sheoak	✓	
Allocasuarina verticillata	Drooping Sheoak	✓	
Eucalyptus camaldulensis	River Red Gum		✓
Eucalyptus ovata	Swamp Gum		✓
Eucalyptus viminalis	Manna Gum	✓	✓



DRY soils with low humus content, retaining little moisture even after rain WET soils which are saturated or spongy most of the year MOIST WELL DRAINED soils which retain some moisture but drain readily

		DRY	WET	MOIST WELL DRAINED		DRY	WET	MOIST WELL DRAINED	
Eucalyptus yarraensis	Yarra Gum		✓	✓					
Ozothamnus ferrugineus	Tree Everlasting			✓					
<b>Shrubs</b>									
Acacia implexa	Lightwood	✓		✓		Lightwood (only west of Lake Modewarre)		✓	✓
Acacia mearnsii	Black Wattle	✓				Black Wattle	✓		
Acacia pycnantha	Golden Wattle	✓		✓		Golden Wattle	✓		
Acacia stricta	Hop Wattle	✓				Hop Wattle	✓		
Acacia verticillata	Prickly Moses	✓	✓	✓		Sweet Bursaria	✓	✓	✓
Bursaria spinosa	Sweet Bursaria	✓	✓	✓		Prickly Tea-tree	✓		✓
Callistemon sieberi	River Bottlebrush		✓	✓					
Gynatrix pulchella	Hemp Bush		✓	✓	<b>Groundcovers</b>				
Hymenanthera dentata	Tree Violet	✓		✓	Poa sieberiana			✓	
Leptospermum continentale	Prickly Tea-tree	✓	✓	✓	Themeda triandra	Grey Tussock-grass	✓	✓	
Leptospermum lanigerum	Woolly Tea-tree		✓	✓		Kangaroo Grass	✓	✓	
Leptospermum obovatum	River Tea-tree		✓	✓	<b>SOIL 154 UPPER BARWON</b>				
Muehlenbeckia cunninghamii	Tangled Lignum		✓	✓	Ecological vegetation class Swamp Scrub (53) and Waterbody-salt (991)				
<b>Groundcovers</b>					<b>Trees</b>				
Austroanthonia caespitosa	Common Wallaby-grass	✓			Eucalyptus camaldulensis	River Red Gum		✓	
Carex appressa	Tall Sedge		✓	✓	<b>Groundcovers</b>				
Poa labillardieri	Common Tussock-grass		✓	✓	Gahnia filum	Chaffy Saw-sedge		✓	
Poa sieberiana	Grey Tussock-grass	✓			Juncus sp	Rushes		✓	
Ptilotus macrocephalus	Feather-heads	✓		✓	Sarcocornia quinqueflora	Beaded Glasswort	✓	✓	
Themeda triandra	Kangaroo Grass	✓			<b>SOIL 159 UPPER BARWON</b>				
<b>SOIL 86 AND 150 UPPER BARWON</b>					Ecological vegetation class Sedgy Riparian Woodland (198), Lowland Forest (16), Heathy Woodland (48), Herb Rich Foothill Forest/Shrubby Foothill Forest Complex (178), Shrubby Foothill Forest (45) and Swamp Scrub (53)				
Ecological vegetation class Grassy Woodland (175)					<b>BAMBRA NORTH AND BAMBRA/RETREAT CREEK</b>				
<b>Trees</b>					Ecological vegetation class Sedgy Riparian Woodland (198), Lowland Forest (16) and Heathy Woodland (48)				
Acacia melanoxylon	Blackwood	✓		✓	<b>Trees</b>				
Allocasuarina littoralis	Black Sheoak	✓			Acacia melanoxylon	Blackwood	✓	✓	
Allocasuarina verticillata	Drooping Sheoak	✓			Eucalyptus aromaphloia	Scentbark	✓		
Eucalyptus ovata	Swamp Gum		✓	✓	Eucalyptus cypellocarpa	Mountain Grey Gum	✓	✓	
Eucalyptus viminalis	Manna Gum	✓		✓	Eucalyptus obliqua	Messmate	✓		
Eucalyptus yarraensis	Yarra Gum		✓	✓					

DRY soils with low humus content, retaining little moisture even after rain WET soils which are saturated or spongy most of the year MOIST WELL DRAINED soils which retain some moisture but drain readily

		DRY	WET	MOIST WELL DRAINED		DRY	WET	MOIST WELL DRAINED
Eucalyptus ovata	Swamp Gum		✓	✓	<b>PENNYROYAL VALLEY</b> Ecological vegetation class Herb Rich Foothill Forest/Shrubby Foothill Forest Complex (178)			
Eucalyptus radiata	Narrow-leaf Peppermint	✓						
Eucalyptus viminalis	Manna Gum	✓	✓	✓				
Eucalyptus yarraensis	Yarra Gum		✓	✓				
<b>Shrubs</b>					<b>Trees</b>			
Acacia mearnsii	Black Wattle	✓			Acacia melanoxylon	Blackwood	✓	✓
Acacia mucronata	Narrow-leaf Wattle			✓	Eucalyptus aromaphloia	Scentbark	✓	
Acacia stricta	Hop Wattle	✓			Eucalyptus brookerana	Brookers Gum		✓
Acacia suaveolens	Sweet Wattle	✓			Eucalyptus cypellocarpa	Mountain Grey Gum	✓	✓
Acacia verticillata	Prickly Moses	✓			Eucalyptus globulus ssp globulus	Southern Blue Gum	✓	✓
Banksia marginata	Silver Banksia	✓			Eucalyptus obliqua	Messmate	✓	
Bursaria spinosa	Sweet Bursaria	✓	✓	✓	Eucalyptus ovata	Swamp Gum		✓
Epacris impressa	Common Heath	✓			Eucalyptus radiata	Narrow-leaf Peppermint	✓	
Grevillea infecunda	Anglesea Grevillea	✓			Eucalyptus viminalis	Manna Gum	✓	✓
Hakea sericea	Bushy Needle-wood	✓			Eucalyptus yarraensis	Yarra Gum		✓
Leptospermum continentale	Prickly Tea-tree	✓	✓	✓	Ozothamnus ferrugineus	Tree Everlasting	✓	✓
Leptospermum lanigerum	Woolly Tea-tree		✓	✓	<b>Shrubs</b>			
Platylobium obtusangulum	Common Flat-pea	✓			Acacia mearnsii	Black Wattle	✓	
Pomaderris aspera	Hazel Pomaderris			✓	Acacia mucronata	Narrow-leaf Wattle		✓
<b>Groundcovers</b>					Acacia verniciflua	Varnish Wattle	✓	✓
Austrostipa sp	Spear Grass	✓			Acacia verticillata	Prickly Moses	✓	✓
Carex appressa	Tall Sedge		✓	✓	Banksia marginata	Silver Banksia	✓	
Lepidosperma semiteres	Wire Rapier-sedge		✓	✓	Bedfordia aborescens	Blanket Leaf		✓
Lomandra longifolia	Spiny-headed Mat-rush	✓	✓	✓	Bursaria spinosa	Sweet Bursaria	✓	✓
Poa labillardieri	Common Tussock-grass		✓	✓	Cassinia aculeata	Dogwood		✓
Poa sieberiana	Grey Tussock-grass	✓			Coprosma hirtella	Rough Coprosma		✓
Themeda triandra	Kangaroo Grass	✓	✓	✓	Coprosma quadrifida	Prickly Currant-bush		✓
Xanthorrhoea minor	Small Grass-tree	✓			Goodenia ovata	Hop Goodenia	✓	✓
					Goodia lotifolia	Golden Tip	✓	
					Hakea ulicina	Furze Hakea	✓	
					Indigofera australis	Austral indigo	✓	✓
					Leptospermum continentale	Prickly Tea-tree	✓	✓
					Melaleuca squarrosa	Scented Paperbark		✓
					Monotoca scoparia	Prickly Broom-heath	✓	
					Notolea ligustrina	Privet Mock-olive		✓
					Olearia argophylla	Musk Daisy-bush		✓
					Olearia lirata	Snowy Daisy-bush		✓
					Persoonia juniperina	Prickly Geebung	✓	

DRY soils with low humus content, retaining little moisture even after rain WET soils which are saturated or spongy most of the year MOIST WELL DRAINED soils which retain some moisture but drain readily

		DRY	WET	MOIST WELL DRAINED			DRY	WET	MOIST WELL DRAINED
Pimelea axiflora	Bootlace Bush	✓		✓	<b>Shrubs</b>	Black Wattle	✓		
Pomaderris aspera	Hazel Pomaderris			✓	Acacia mearnsii	Narrow-leaf Wattle			✓
Prostanthera mellisifolia	Balm Mint-bush			✓	Acacia mucronata	Varnish Wattle	✓		✓
Pultenea daphnoides	Large-leaf Bush-pea	✓		✓	Acacia verniciflua	Prickly Moses	✓	✓	✓
Pultenea juniperina	Prickly Bush-pea			✓	Acacia verticillata	Silver Banksia	✓		
Spyridium parvifolium	Dusty Miller	✓			Banksia marginata	Blanket Leaf		✓	✓
Zieria arborescens	Stinkwood			✓	Bedfordia aborescens	Sweet Bursaria	✓	✓	✓
					Bursaria spinosa	Dogwood			✓
<b>Groundcovers</b>					Cassinia aculeata	Prickly Currant-bush		✓	✓
Austrodanthonia caespitosa	Common Wallaby-grass	✓			Coprosma quadrifida	Common Heath	✓		
Brunonia australis	Blue Pincushion	✓		✓	Epacris impressa	Hop Goodenia	✓	✓	✓
Carex appressa	Tall Sedge		✓	✓	Goodenia ovata	Golden Tip	✓		
Dianella revoluta	Black-anther Flax-lily	✓			Goodia lotifolia	Furze Hakea	✓		
Dianella tasmanica	Tasman Flax-lily			✓	Hakea ulicina	Austral indigo	✓		✓
Gahnia sieberiana	Red-fruited Saw-sedge		✓	✓	Indigofera australis	Prickly Tea-tree	✓	✓	✓
Lomandra longifolia	Spiny-headed Mat-rush	✓		✓	Leptospermum continentale	Prickly Broom-heath	✓		
Poa labillardieri	Common Tussock-grass		✓	✓	Monotoca scoparia	Privet Mock-olive			✓
Tetratheca ciliata	Pink Bells	✓		✓	Notolea ligustrina	Musk Daisy-bush		✓	✓
Xanthorrhoea australis	Austral Grass-tree	✓			Olearia argophylla	Snowy Daisy-bush			✓
					Olearia lirata	Prickly Geebung			
<b>BOONAH</b>					Persoonia juniperina	Bootlace Bush	✓		
Ecological vegetation class Herb Rich Foothill Forest/Shrubby Foothill Forest Complex (178) and Shrubby Foothill Forest (45)					Pimelea axiflora	Common Flat-pea	✓		
					Platylobium obtusangulum	Balm Mint-bush			✓
<b>Trees</b>					Prostanthera mellisifolia	Large-leaf Bush-pea	✓		✓
Acacia melanoxylon	Blackwood	✓	✓	✓	Pultenea daphnoides	Prickly Bush-pea			✓
Eucalyptus aromaphloia	Scentbark	✓			Pultenea juniperina				
Eucalyptus baxteri	Brown Stringy bark	✓			<b>Groundcovers</b>				
Eucalyptus cypellocarpa	Mountain Grey Gum	✓		✓	Austrodanthonia caespitosa	Common Wallaby-grass	✓		
Eucalyptus globulus ssp globulus	Southern Blue Gum	✓		✓	Brunonia australis	Blue Pincushion	✓		✓
Eucalyptus obliqua	Messmate	✓			Carex appressa	Tall Sedge		✓	✓
Eucalyptus ovata	Swamp Gum		✓	✓	Dianella revoluta	Black-anther Flax-lily	✓		
Eucalyptus radiata	Narrow-leaf Peppermint	✓			Dianella tasmanica	Tasman Flax-lily			✓
Eucalyptus viminalis	Manna Gum	✓		✓	Gahnia sieberiana	Red-fruited Saw-sedge			✓
Eucalyptus yarraensis	Yarra Gum		✓	✓	Lepidosperma semiteres	Wire Rapiet-sedge		✓	✓
Ozothamnus ferrugineus	Tree Everlasting	✓		✓	Lomandra longifolia	Spiny-headed Mat-rush	✓	✓	✓
					Poa labillardieri	Common Tussock-grass		✓	✓

DRY soils with low humus content, retaining little moisture even after rain WET soils which are saturated or spongy most of the year MOIST WELL DRAINED soils which retain some moisture but drain readily

		DRY	WET	MOIST WELL DRAINED
Tetradlea ciliata	Pink Bells	✓		✓
Themeda triandra	Kangaroo Grass	✓	✓	✓

## Appendix One

Indigenous and native salt tolerant species suitable for planting in the Surf Coast Shire.

### Trees

Eucalyptus camaldulensis  
Eucalyptus occidentalis

Albacutya Red Gum  
Swamp Yate

### Low lying saline areas

✓  
✓

### Shrubs

Casuarina cunninghamiana  
Casuarina glauca  
Melaleuca decussata  
Melaleuca ericifolia  
Melaleuca halmaturorum  
Melaleuca lanceolata

River Sheoak  
Grey Buloke  
Totem Poles  
Swamp Paperbark.  
Salt Paperbark  
Moonah

✓  
✓  
✓  
✓  
✓  
✓

