

**TWEED SHIRE COUNCIL**

**LANDSCAPE GUIDELINES**

**CASUARINA BEACH – 7(f)  
ZONE**

## **Introduction**

The purpose of this landscape design guideline is to assist you and Tweed Shire Council in ensuring a unique sense of place is developed at Casuarina Beach. This guideline promotes the principles of sustainability on your property while creating a comfortable, livable environment. It promotes the use of a diversity of native plants that will reduce water consumption and encourage wildlife opportunities. Careful arrangement of the plants will create shade where needed and encourage cooling breezes. Management of the types of materials used in your garden and maintenance of these areas is necessary to ensure that it is not compromising these principles of sustainability.

This guideline is organised into the following sections:

- How to Use this Guideline
- Design Guidelines and Illustrations
- Plant Species List
- Plant Reference Guide

## **How to Use this Guideline**

The following is a step-by-step procedure to assist you in understanding the requirements of this guideline.

Step 1: Determine how you intend to use your garden.

Do you want areas with shade cover?

Do you want to attract birdlife?

Do you want to or have the time to maintain a garden?

Step 2: Refer to the relevant areas of the guideline to understand the requirements of each section.

Step 3: Have drawings prepared illustrating your garden for submission to Tweed Shire Council in conjunction with your development application for your dwelling house. If there are any queries on the guidelines, contact Tweed Shire Council.

Step 4: Submit your drawings to Tweed Shire Council for approval as part of your development application for your dwelling house.

## **Guidelines and Illustrations**

The following guidelines are to be read in conjunction with the diagrammatic plans on pages 5, 6 and 7.

### **Filling**

No filling, with the exception of top dressing to a maximum depth of 20mm, is to be imported into the 7(f) zone.

### **Maintenance Paths**

#### Description:

A 600mm wide internal access path for the sole purpose of maintaining the landscaped area may be provided.

#### Acceptable Materials:

The path shall be constructed from washed rock mulch, pea gravel, 15-20mm gravel screenings, gravel pave or no fines bark mulch (minimum particle size 25mm). Bark mulches shall be free of organic fines, leachates or tannins. No underlay of geo-textile or plastic sheeting is permitted.

#### Coverage:

The maximum allowable area for maintenance paths shall be 15% of the 7(f) zone. Maintenance paths shall not be constructed closer than 1.5m from a side boundary and 3.0m from the eastern boundary.

### **Turf Area**

#### Description:

A grassed area suited for passive recreational use by the homeowner or active children play area. This area may be level to gently sloping, not exceeding a 1:4 fall.

#### Acceptable Materials:

Hybridised, non-seeding varieties of Couch grass such as Wintergreen or Greenlees Park shall be used. Stolonising or sodding are acceptable methods of installation. Grass seeding is not acceptable.

#### Coverage:

The maximum allowable area for the turf area shall be 25% of the 7(f) zone.

#### Alternative to Grasses:

When a turf area is not desired or required for active use as described above, a mixture of the following species of native plants may be used as an alternative to grass:

Dianella caerulea  
Isolepis hookeriana  
Lomandra hystrix  
Lomandra longifolia  
Myoporum ellipticum  
Spinifex sericea

### **Planting Area**

#### Description:

All remaining areas that are not covered by the above descriptions for entertainment and turf areas and maintenance paths shall be referred to as planting areas. These areas shall consist of a mixture of trees, shrubs and groundcovers at the densities listed below.

#### Acceptable Materials:

All species shall be selected from the Casuarina Beach Species List (Refer to Casuarina Beach Plant Reference Guide).

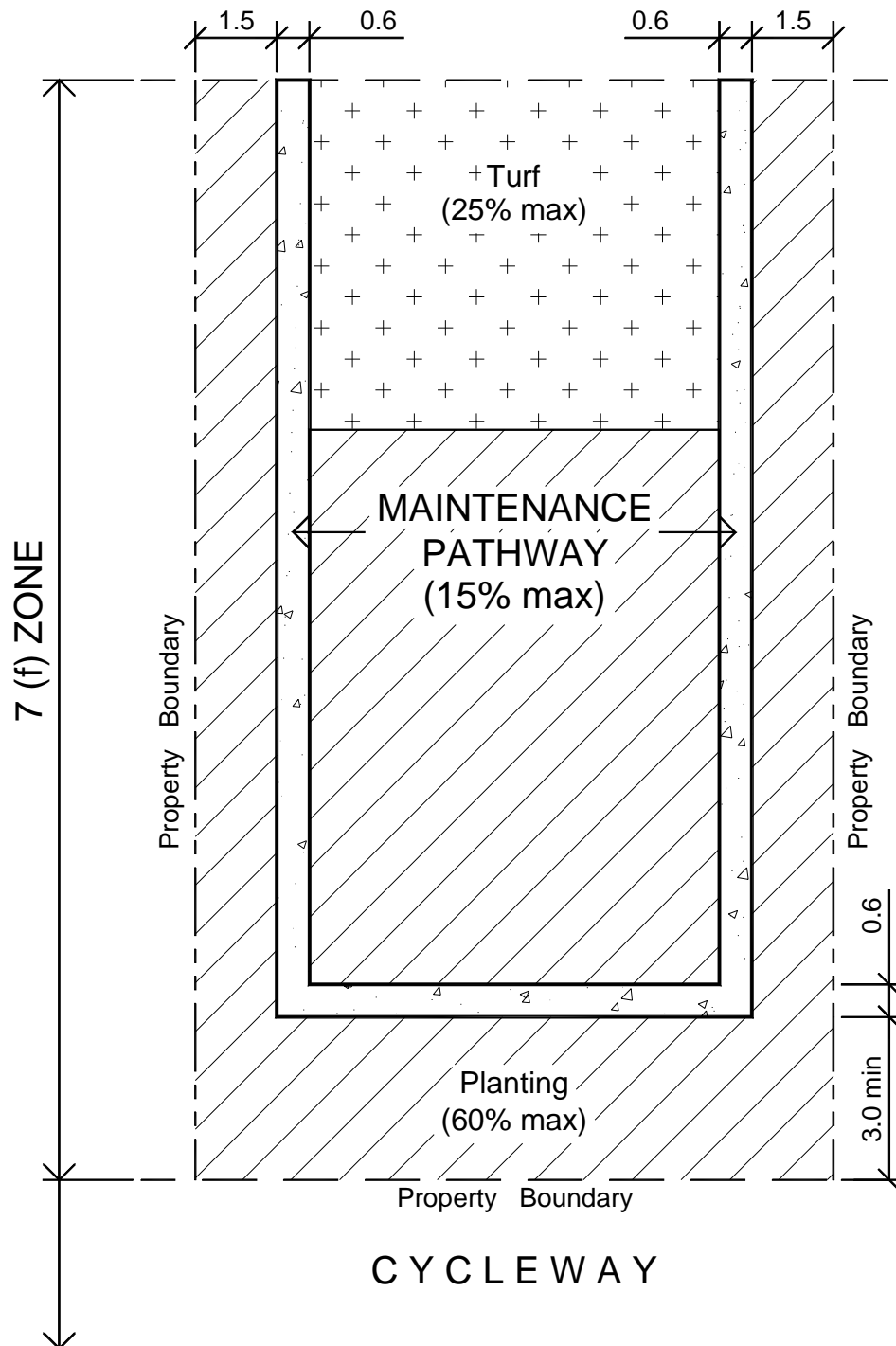
#### Coverage:

The minimum acceptable area for this type of treatment is 60% of the 7(f) zone.

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Illustrative Diagram



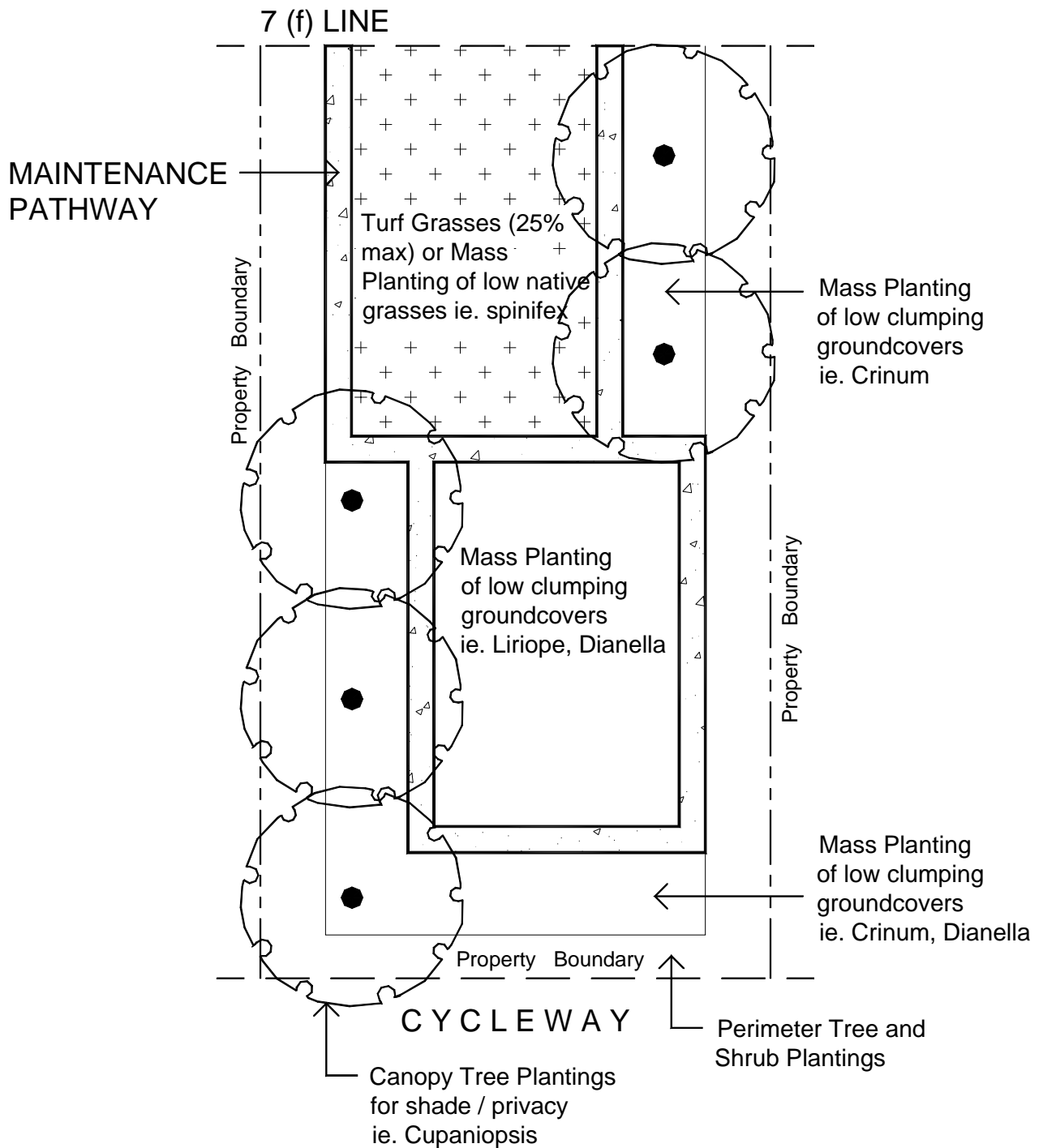
**Items to Include on Plan:**

- North Arrow, Block location and scale of drawing
- Owners Name and Address, Name and address of persons drawing the plan.
- Landscape Species to be planted, plant spacing, plant numbers and size of plants to be planted.
- Distance from Property Boundary to Large tree plantings and maintenance paths (max. 2 references per boundary length)

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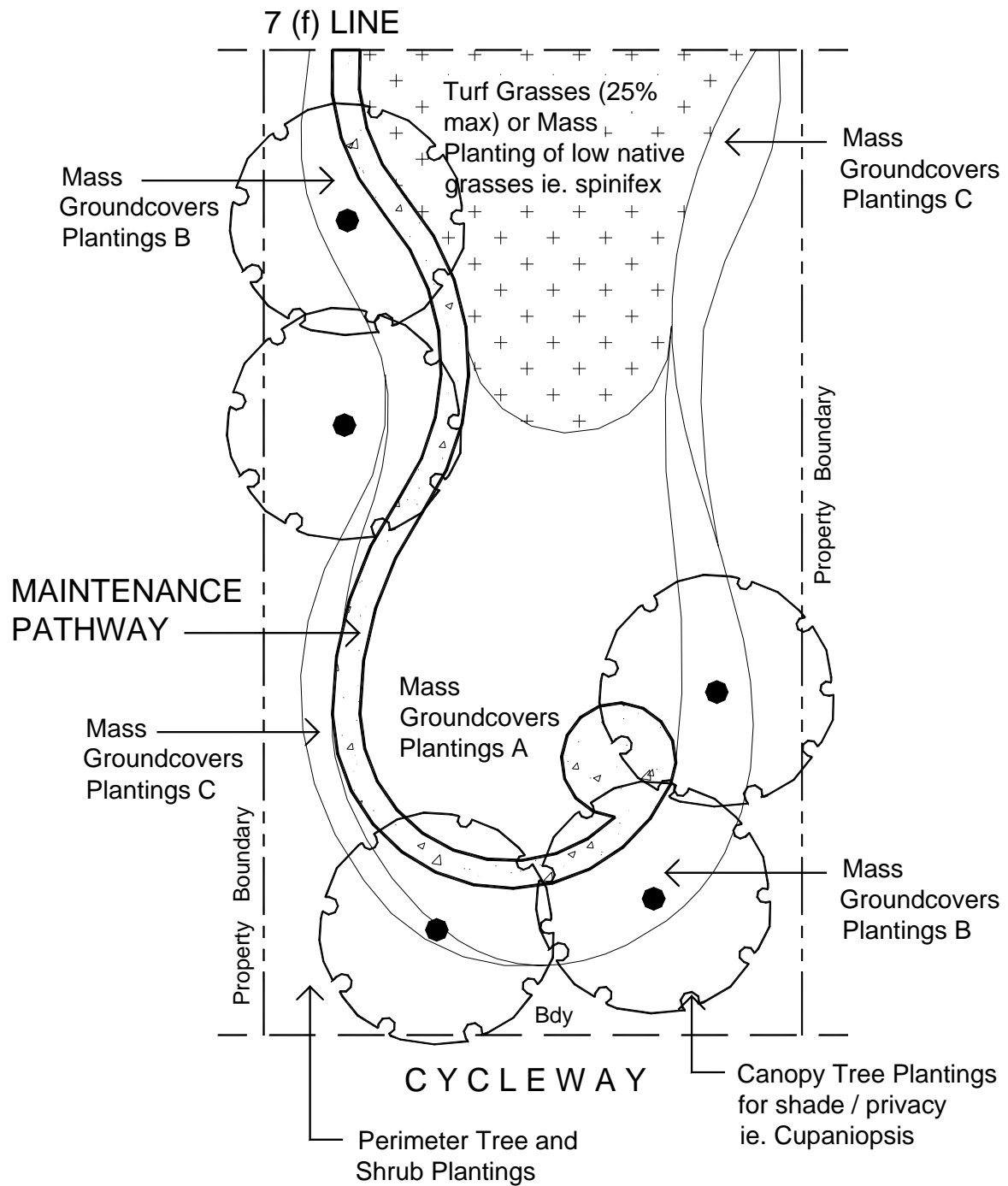
Illustrative Spatial Concept



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Illustrative Spatial Concept



### **Recommended Plant Spacings**

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#### Tree species:

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Alectryon coriaceus	Plant at 2m centres
Allocasuarina littoralis	Plant at 2m centres
Banksia aemula	Plant at 2m centres
Banksia integrifolia	Plant at 2m centres
Casuarina equisetifolia	Plant at 3m centres
Cryptocaria triplinervis	Plant at 5m centres
Cupaniopsis anacardioides	Plant at 5m centres
Elaeocarpus obovatus	Plant at 3m centres
Endiandra sieberi	Plant at 3m centres
Ficus macrophylla	Plant at 10m centres
Ficus platypoda	Plant at 5m centres
Ficus rubiginosa	Plant at 5m centres
Macaranga tanarius	Plant at 4m centres
Melaleuca quinquinervia	Plant at 3m centres
Pandanus tectorius	Plant at 3m centres
Syzygium oleosum	Plant at 3m centres

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#### Shrub species:

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Callistemon pachyphyllus (Red Form)	Plant at 1.5m centres
Callistemon salignus	Plant at 1.5m centres

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#### Clumping and Groundcover species:

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Austromyrtus dulcis	Plant at 1m centres
Carpobrotus glaucens	Plant at 1m centres
Crinum pedunculatum	Plant at 750mm centres
Dianella caerulea	Plant at 500mm centres
Dianella congesta	Plant at 500mm centres
Hibbertia scandens	Plant at 600mm centres
Ilsolepis hookeriana	Plant at 400mm centres
Juncus usitatus	Plant at 750mm centres
Lomandra hystrix	Plant at 700mm centres
Lomandra longifolia	Plant at 700mm centres
Myoporum ellipticum	Plant at 1m centres
Spinifex sericeus	Plant at 400mm centres

General Notes: Ficus species are not to be planted within 5m of a property boundary. All other tree species are to be a minimum of 1.5m from property boundaries and services.



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**Species prohibited from planting**

Trees

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Botanical Name	Common Name
<i>Acacia saligna</i>	Golden Wreath Wattle
<i>Araucaria heterophylla</i>	Norfolk Island Pine
<i>Cinnamomom camphora</i>	Camphor Laurel
<i>Erythrina x sykesii</i>	Coral Tree
<i>Ficus elastica</i>	Rubber Tree
<i>Ficus hillii</i>	Small Fruited Fig
<i>Meleleuca leucadendron</i>	Weeping Paperbark
<i>Schefflera actinophylla</i>	Umbrella Tree
<i>Spathodea campnolata</i>	African Tulip Tree

Shrubs

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Botanical Name	Common Name
<i>Acacia podalyrifolia</i>	Queensland Silver Wattle
<i>Baccharis halmimifolia</i>	Groundsel Bush
<i>Grevillea banksii</i>	Red Flowering Silky Oak
<i>Lantana camara</i>	Lantana
<i>Leptospermum laevigatum</i>	Coast Teatree
<i>Ochna serrulata</i>	Ochna
<i>Senna floribunda</i>	Smooth Senna
<i>Senna pendula</i>	Winter Senna
<i>Solanum mauritianum</i>	Wild Tobacco Bush

Grass

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Botanical Name	Common Name
<i>Andropogon virginicus</i>	Whiskey Grass
<i>Axonopus affinis</i>	Narrow Leaved Carpet Grass
<i>Axonopus compressus</i>	Broad Leaved Carpet Grass
<i>Cenchrus echinatus</i>	Mossman River Grass
<i>Chloris gayana</i>	Rhodes Grass
<i>Digitaria ciliaris</i>	A Summer Grass
<i>Digitaria violascens</i>	
<i>Eleusine indica</i>	Crowsfoot Grass
<i>Eragrostis tenuifolia</i>	Elastic Grass
<i>Melinis minutifolia</i>	Molasses Gras
<i>Melinis repens</i>	Red Natal Grass

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Grass (continued)

Botanical Name	Common Name
<i>Panicum maximum</i>	Guinea Grass
<i>Paspalum notatum</i>	Bahia Grass
<i>Paspalum urvillei</i>	Vasey Grass
<i>Paspalum wettstenii</i>	Broad Leaved Paspalum
<i>Pennisetum purpureum</i>	Elephant Grass
<i>Setaria sphacelata</i>	South African Pigeon Grass
<i>Sporobolus indicus</i> var. <i>capensis</i>	Paramatta Grass
<i>Stenotaphrum secundatum</i>	Bufalo Grass
<i>Urochloa decumbens</i>	Signal Grass

Herb/Forb

Botanical Name	Common Name
<i>Ageratina adenophora</i>	Crofton Weed
<i>Ageratina riparium</i>	Mistflower
<i>Ageratum housonianum</i>	Blue Billygoat Weed
<i>Amaranthus viridis</i>	Green Amaranth
<i>Ambrosia artemisifolia</i>	Annual Ragweed
<i>Bidens pilosa</i>	Farmer's Friends
<i>Bryophyllum delagoense</i>	Mother of Millions
<i>Bryophyllum pinnatum</i>	Ressurrection Plant
<i>Cakile edentula</i>	American Sea Rocket
<i>Chamaesyce nutans</i>	
<i>Chamaesyce supina</i>	Red Caustic Weed
<i>Chrysanthemoides monilifera</i> subsp. <i>rotundata</i>	Bitou Bush
<i>Conyza albida</i>	A Fleabane
<i>Conyza bonariensis</i>	Flaxleaf Fleabane
<i>Conyza parva</i>	A Fleabane
<i>Coeopsis lanceolata</i>	Coreopsis
<i>Cornopus didymus</i>	Lesser Swinegrass
<i>Crassocephalum crepidioides</i>	Thickhead
<i>Crotalaria incana</i>	Wolly Rattlepod
<i>Crotalaria lanceolata</i>	A Rattlepod
<i>Euphorbia cyathophora</i>	Painted Spurge
<i>Gloriosa superba</i>	Gloriosa
<i>Gomphocarpus fruticosus</i>	Narrow Leaved Cotton Bush
<i>Helianthus tuberosus</i>	Jerusalem Artichoke
<i>Hydrocotyle bonariensis</i>	A Pennywort
<i>Hypochaeris radicata</i>	Catsear
<i>Lotononis bainesii</i>	Lotononis

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Herb/Forb (continued)

Botanical Name	Common Name
<i>Oenothera drummondii</i>	Beach Evening Primrose
<i>Oenothera indecora</i> subsp. <i>bonariensis</i>	Small Flowering Evening Primrose
<i>Oenothera mollissima</i>	An Evening Primrose
<i>Oenothera stricta</i>	Sweet Scented Evening Primrose
<i>Oxalis species A</i>	A Wood Sorrel
<i>Phyllanthus tenellus</i>	
<i>Phytolacca octandra</i>	Inkweed
<i>Polycarpon tetraphyllum</i>	Four Leaved Allseed
<i>Protasparagus aethiopicus</i>	Asparagus Fern
<i>Richardia brasiliensis</i>	Mexican Clover
<i>Richardia stellaris</i>	
<i>Rivina humilis</i>	Coral Berry
<i>Sanseveria trifasciata</i>	Mother in Law's Tongue
<i>Senecio madagascariensis</i>	Fireweed
<i>Solanum nigrum</i>	Black-berry Nightshade
<i>Sonchus oleraceus</i>	Common Sowthistle
<i>Tagetes minuta</i>	Stinking Roger
<i>Tephrosia glomerulifera</i>	Pink Tephrosia
<i>Trifolium dubium</i>	Yellow Suckling Clover
<i>Wedelia trilobata</i>	Singapore Daisy
<i>Yucca aloifolia</i>	Yucca

Vines

Botanical Name	Common Name
<i>Anredera cordifolia</i>	Madiera Vine
<i>Delairea odorata</i>	Cape Ivy
<i>Hylocereus undatus</i>	Night Blooming Cactus
<i>Ipomea cairica</i>	Coast Morning Glory
<i>Ipomea purpurea</i>	Common Morning Glory
<i>Macroptilium atropurpureum</i>	Siratro
<i>Passiflora aurantia</i>	Burnt Leaved Passionfruit
<i>Passiflora subpeltata</i>	White Passionflower
<i>Protasparagus africanus</i>	A Climbing Asparagus Fern
<i>Protasparagus plumosa</i>	A Climbing Asparagus Fern
<i>Solanum seafortianum</i>	Brazilian Nightshade
<i>Vicia sativa</i>	Common Vetch

Ferns




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Botanical Name	Common Name
<i>Microsorium diversifolium</i>	Kangaroo Fern
<i>Nephrolepis cordifolia</i>	Fishbone Fern
<i>Nephrolepis hirsutula</i>	A Fishbone Fern




Rush/Sedge




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Botanical Name	Common Name
<i>Cyperus aggregatus</i>	A Sedge
<i>Cyperus prifer</i>	Dwarf Papyrus
<i>Cyperus vorsteri</i>	A Sedge




	<p><b>Alectryon coriaceus</b>          (Beach Alectryon)</p> <p>Ht.: 1-6m Sprd.: 2m Full sun to part shade</p> <p>Prefers sandy well-drained soils with reasonable drainage, some moisture retention but tolerates wet conditions.</p> <p>A bushy tree with shiny black seeds and sweet red aril that attract birds.</p>
	<p><b>Allocasuarina littoralis</b>          (Black She Oak)</p> <p>Ht.: 6m Sprd.: 2m Full sun to part shade</p> <p>Requires reasonable drainage, some moisture retention.</p> <p>Fast growing tree, male flowers cover the tree giving it a bronze appearance. Female flowers are small and red, clustered along the branches. Woody seed pods follow. Useful tree for soil erosion control and wind breaks. The needle like foliage gives it a weeping appearance.</p>
	<p><b>Banksia aemula</b>          (Wallum Banksia)</p> <p>Ht. 5m Sprd. 2m Full sun</p> <p>Prefers sandy well-drained soils with reasonable drainage, some moisture retention.</p> <p>Bushy tree with large creamy/grey flower spikes in summer and autumn. The candle-like flowers of this plant are outstanding and attract many honey-eating birds.</p>




	<p><b>Banksia integrifolia</b> (Coast Banksia)</p> <p>Ht. 6m Sprd. 2m Full sun</p> <p>Prefers sandy well-drained soils with reasonable drainage, some moisture retention.</p> <p>Hardy, medium tree with large yellow brushes throughout the year. The candle-like flowers of this plant are outstanding and attract many honey-eating birds.</p>
	<p><b>Callistemon pachyphyllus</b> (Red flowered Bottlebrush)</p> <p>Ht.: 2m Sprd.: 1.5m Full sun to part shade</p> <p>Requires reasonable drainage, some moisture retention to moist soils</p> <p>Bushy shrub with dark red flower brushes all year. Very hardy.</p>
	<p><b>Callistemon salignus</b> (Willow Bottlebrush)</p> <p>Ht.: 6m Sprd.: 2m Full sun to part shade</p> <p>Requires reasonable drainage, some moisture retention to moist soils</p> <p>Tall shrub that flowers prolifically with cream bottlebrushes in spring and autumn. Bright pink new foliage is a feature.</p>

	<p><b>Casuarina equisetifolia</b> (Horse Tail She Oak)</p> <p>Ht.: 8m Sprd.: 3m Full sun</p> <p>Prefers sandy, well-drained soils</p> <p>Hardy tree that withstands salt laden winds. Very important tree for binding coastal dunes</p>
	<p><b>Cryptocaria triplinervis</b> (No Common Name)</p> <p>Ht.: 15m Sprd.: 15m Full sun</p> <p>Requires reasonable drainage, some moisture retention.</p> <p>A small to medium tree with dark green leaves. Yellowish flowers are small, followed by purple-black fruit. Relatively slow growing.</p>
	<p><b>Cupaniopsis anacardioides</b> (Tuckeroo)</p> <p>Ht.: 10m Sprd.: 2m Full sun to part shade</p> <p>Requires reasonable drainage, some moisture retention.</p> <p>Useful shade tree for sea side areas. Greenish/white scented flowers are followed by bright orange berries.</p>




	<p><b>Elaeocarpus obovatus</b> (Hard Quandong)</p> <p>Ht.: 6m Sprd.: 3m Full sun to part shade</p> <p>Requires reasonable drainage, some moisture retention.</p> <p>Bushy tree with white bell shaped flowers with fringed petals in spring. Blue berries follow.</p>
	<p><b>Endiandra sieberi</b> (Corkwood)</p> <p>Ht.: 10m Sprd.: 3m Full sun</p> <p>Requires reasonable drainage, some moisture retention.</p> <p>Bushy tree with deeply ridged corky bark. Small white flowers are followed by large glossy black fruit that attractive to birds. New growth is red.</p>
	<p><b>Ficus macrophylla</b> (Moreton Bay Fig)</p> <p>Ht.: 20m Sprd.: 10m Full sun</p> <p>Requires reasonable drainage, some moisture retention.</p> <p>Majestic spreading shade tree with large dark glossy green leaves. The young shoots are a rusty brown colour. Purple fruit with white spots ripe in summer.</p>









	<p><b>Ficus platypoda</b> (Small Leaved Moreton Bay Fig)</p> <p>Ht.: 6m Sprd.: 3m Full sun</p> <p>Requires reasonable drainage, some moisture retention.</p> <p>A bushy tree with orange/red fruit in the leaf axials that are ripe in autumn. One of the hardiest figs</p>
	<p><b>Ficus rubiginosa</b> (Port Jackson Fig)</p> <p>Ht.: 6m Sprd.: 3m Full sun</p> <p>Requires reasonable drainage, some moisture retention.</p> <p>A bushy ornamental tree with a spreading crown. Yellow/red globular fruit attracts birds.</p>
	<p><b>Macaranga tanarius</b> (Macaranga)</p> <p>Ht.: 6m Sprd.: 3m Full sun</p> <p>Requires reasonable drainage, some moisture retention.</p> <p>A bushy tree with large heart shaped leaves. A fast growing tree with cream flowers in spring. Flowers and fruit attract parrots.</p>




	<p><b>Melaleuca quinquinervia</b> (Paper barked Tea Tree)</p> <p>Ht.: 9m Sprd.: 3m Full sun</p> <p>Tolerates a wide range of soils from well drained to wet, but performs best in moist to boggy conditions</p> <p>An erect tree with scented cream flower brushes in autumn and winter. Bark delaminates in strips.</p>
	<p><b>Pandanus tectorius</b> (Pandanus)</p> <p>Ht.: 9m Sprd.: 3m Full sun</p> <p>Requires reasonable drainage, some moisture retention.</p> <p>Long strap-like leaves create a bold texture as they whorl from the trunk. Develops prop roots with age.</p>
	<p><b>Syzygium oleosum</b> (Blue Lilly Pilly)</p> <p>Ht.: 6-10m Sprd.: 3m Full sun</p> <p>Requires reasonable drainage, some moisture retention.</p> <p>A bushy tree with many white flowers in spring followed by bunches of mauve fruit. Very showy when in bloom.</p>

**GROUNDCOVERS**

	<p><b>Austromyrtus dulcis</b> (Midyim)</p> <p>Ht.: 600-900m Sprd.: 2m Full sun to part shade</p> <p>Prefers sandy well drained soils with reasonable drainage, some moisture retention.</p> <p>Prostrate shrub with white flowers in spring followed by pale grey berries that are edible. Can form dense mat.</p>
	<p><b>Carpobrotus glaucens</b> (Pig Face)</p> <p>Ht.: 500m Sprd.: 2-3m Full sun</p> <p>Prefers sandy well drained soils with reasonable drainage, some moisture retention.</p> <p>Suckering groundcover with large deep pink flowers all year. Good for binding soil.</p>
	<p><b>Crinum pendunculatum</b> (Swamp Lily)</p> <p>Ht.: 1.5 Sprd.: 1.5m Full sun to part shade</p> <p>Tolerates a wide range of soils from well drained to wet, but performs best in moist to boggy conditions</p> <p>Bulbous plant with strap like leaves. Clusters of scented flowers on tall fleshy stalks in spring.</p>

	<p><b>Dianella caerula</b> (Flax Lily)</p> <p>Ht.: 1m Sprd.: 500mm Full sun to part shade</p> <p>Prefers sandy well drained soils with reasonable drainage, some moisture retention.</p> <p>A low tufting plant suckering to form clumps. Clusters of blue flowers on long stalks, followed by brilliant blue berries.</p>
	<p><b>Dianella congesta</b> (Flax Lily)</p> <p>Ht.: 750mm Sprd.: 500mm Full sun to part shade</p> <p>Prefers sandy well drained soils with reasonable drainage, some moisture retention.</p> <p>A low tufting plant suckering to form clumps. Clusters of blue flowers on long stalks, followed by shiny blue berries.</p>
	<p><b>Hibbertia scandens</b> (Snake Vine)</p> <p>Ht.: climber Spreading Full sun</p> <p>Prefers sandy well drained soils with reasonable drainage, some moisture retention.</p> <p>A vigorous climber or groundcover with large yellow flowers for most of the year. Orange berries follow that attract birds.</p>

	<p><b>Isolepsis hookeriana</b> Isolepsis</p> <p>Ht.: 100mm Spreading Full sun</p> <p><b>Moist to wet soils</b></p> <p>Small tufted annual rush with slender light green stems. Reproduces itself readily in good conditions. Attractive foliage.</p>
	<p><b>Juncus usitatus</b> Common Rush</p> <p>Ht.: 1m Spreading Full sun</p> <p>Moist to wet soils, along margins of drains and channels</p> <p>Small tufted rush with slender dark green stems. Spreads by rhizomes, good for erosion control. Provides food and shelter for wildlife.</p>
	<p><b>Lomandra hystrix</b> (Mat-rush)</p> <p>Ht.: 1m Sprd.: 500mm Full sun to part shade</p> <p>Requires reasonable drainage, some moisture retention.</p> <p>A spreading cushion like plant with short spikes of creamy flowers in autumn and winter. Spreads to form large clumps.</p>

	<p><b>Lomandra longifolia</b> (Long Leaved Mat-rush)</p> <p>Ht.: 1m Sprd.: 500mm Full sun to part shade Requires reasonable drainage, some moisture retention.</p> <p>A spreading cushion like plant with short spikes of creamy flowers in autumn and winter. Spreads to form large clumps.</p>
	<p><b>Myoporum ellipticum</b> (Coastal Myoporum)</p> <p>Ht.: 500mm Sprd.: 3m Full sun to part shade Requires reasonable drainage, some moisture retention.</p> <p>A spreading groundcover with small white flowers in autumn. Dark green foliage.</p>
	<p><b>Spinifex sericeus</b> (Spinifex)</p> <p>Ht.: 300mm Spreading Full sun Prefers sandy well drained soils with reasonable drainage, some moisture retention.</p> <p>Easily grown from cuttings</p>