

NOOSA PLANNING SCHEME POLICY 3— LANDSCAPING PLANTS & GUIDELINES

Introduction

Noosa Shire is an attractive place due to its landform diversity and natural vegetation. The Shire encompasses beaches, sand dunes, river systems, wetlands, heath plains, woodlands, rainforests and ranges. The landform and natural vegetation are major reasons for the Shire's attraction to tourists and residents alike.

The purpose of this planning scheme policy is to support the Landscaping Code within Part 14 of *The Noosa Plan* by providing—

- a description of each natural landscape character area in Noosa Shire (Coastal/Beachfront Areas, Woodland/Open Forest Areas and Closed Forest/Rainforest Areas) (section 1 - 4);
- a list of preferred plant species for each natural landscape character area, including primary and secondary character species (sections 5 - 8);
- a list of undesirable plant species for Noosa Shire (section 9);
- a list of koala food and habitat tree species suitable for Noosa Shire (section 10); and
- specific planting guidelines and techniques (section 11)

1. Natural Landscape Character Areas

- 1.1 Three broad natural landscape character areas are evident in Noosa Shire these are the Coastal/Beachfront, Woodland/Open Forest and the Closed Forest/Rainforest areas. There is no precise delineation between these areas and an individual assessment of each site and its natural landscape character should be made. A description of each area is provided below.

2. Coastal/Beachfront Areas

Figure 2-1 Coastal/Beachfront Areas



- 2.1 These areas are in close proximity to the coast, and are characterised by sandy soil. The coastal beachfront areas extend from Peregrin Beach to Sunshine Beach and westward to

incorporate parts of Cooloola Estate, Noosa Sound and Noosa Heads. Most of the Noosa North Shore is also within this area. The natural landscape character for this area is coastal heath or wallum with a specialised and distinctive character.

2.2 Those areas closer to the beach suffer coastal exposure from wind and salt spray. The exposure, combined with low fertility of the sand and its inability to hold moisture, present difficult conditions for plants and considerable care is needed in plant selection.

2.3 Section 6 this Policy provides a list of species which characterise coastal/beachfront areas.

3. Woodland/Open Forest Areas

Figure 3-1 Eucalypt Open Forest



Figure 3-2 Banksia Woodland



3.1 This landscape character area is found across most of the Shire and is highly variable ranging from banksia/allocasuarina woodlands near the coast, to paperbark woodlands in wetter areas near the Noosa River, to brush box forest with rainforest elements in more sheltered areas. It is most prevalent in Noosaville, Tewantin and the rural areas of the Shire.

3.2 The main canopy usually includes eucalypts and associated genera, though in wet areas such as south of Noosaville and northwest of Tewantin, paperbarks form the main canopy.

3.3 Section 7 of this policy provides a list of species that characterise woodland/open forest areas.

4. Closed Forest/Rainforest Areas

4.1 The closed forest and rainforest areas are now scarce in the Shire and have particular environmental significance. Remaining areas are often remnants from previous clearing. Closed forest/rainforest is located in the protected areas of Noosa Heads and the hinterland, and in gullies and adjacent to watercourses in the rural areas. There is potential for considerable revegetation of these communities in rural areas. Closed forest/rainforest species are remarkably adaptable to a wide range of conditions but generally require a moist well-drained soil.

4.2 Section 8 of this policy provides a list of species that characterise closed forest/rainforest areas.

Figure 4-1 Closed Forest



5. Preferred Plant Species

- 5.1 Following is a list of species that are generally available from wholesale suppliers. It is recognised that there are other species, not contained herein, of local origin that are readily available from retail nurseries. Essentially, other species may be utilised in landscape plans however evidence that they are of local origin should be provided.
- 5.2 To create the desired natural landscape character a mix of species from each category for the specific character area is required, with an emphasis on primary character species.
- 5.3 Hybrids/variegates shall not be used in *environmentally sensitive areas*¹ or for the purposes of environmental rehabilitation. However, hybrids/variegates may be accepted in other areas where the preferred plant species are not available.
- 5.4 The following abbreviations are used in this planning scheme policy—

Form = Growth Form

TT	Tall Tree with a growth height greater than 20m
MT	Medium Tree with a growth height between 10m and 20m
ST	Small Tree with a growth height of less than 10m
LS	Large Shrub with a growth height of greater than 3m
MS	Medium Shrub with a growth height of between 1m and 3m
SS	Small Shrub with a growth height of less than 1m
G	Grass
GC	Groundcover
TF	Tufting - a type of plant that spreads out

¹ As defined by The Noosa Plan *environmentally sensitive areas* means land with steep slopes, land mapped on an overlay map, watercourses, drainage lines and ridges, and native habitat and wildlife corridors.

P Palm

V Vine

Soil = Soil Types

1 Sandy well drained soil

2 Average topsoil, reasonable drainage, and some moisture retention

3 Boggy soil, heavy clay, wet for part of the year

4 Grey Water area

Aspect:

S Able to tolerate full sun

PS Prefers part shade

SH Requires shade

Salt = Salt Tolerance

PE Able to withstand Part Exposure

FE Able to withstand Full Exposure

NT No tolerance to salt

Root Guard

RG Root Guard required if planted near road or carpark or within close proximity to buildings or services.

Street Trees/Carparks

NS Not suitable for planting in the street or carpark.

Availability

T Only available as tube stock from wholesalers

6. Coastal Beachfront Areas

Following is a list of species that characterise coastal/beachfront landscape character areas.

Table 6.1—Primary Character Species

Botanical Name	Common Name	Form	Salt	Soil	Aspect	Street	Root	Tube
<i>Acacia flavescens</i>	Primrose ball wattle	ST	PE	1 2	S			
<i>Acacia sophorae</i>	Coastal Wattle	MS	FE	1	S			
<i>Acronychia imperforata</i>	Fraser Island Apple	ST	FE	1	SPS			
<i>Alectryon coriaceus</i>	Beach Birds Eye	ST	FE	1	S			

Botanical Name	Common Name	Form	Salt	Soil	Aspect	Street	Root	Tube
<i>Allocasuarina equisetifolia</i>	Horsetail She-oak	ST	FE	1	S			
<i>Allocasuarina littoralis</i>	Black She-Oak	ST	PE	1234	S		RG	
<i>Alphitonia excelsa</i>	Red Ash	MT	PE	1234	S\PS			
<i>Banksia aemula</i>	Wallum Banksia	ST	PE	1	S\PS			
<i>Banksia integrifolia</i>	Coastal Banksia	MT	FE	1 2	S			
<i>Callitris columellaris</i>	Cooloola Cypress Pine	TT	FE	1 2	S			
<i>Corymbia intermedia</i>	Pink Bloodwood	TT	PE	1 2	S			
<i>Corymbia tessellaris</i>	Moreton Bay Ash	TT	FE	1 2	S			
<i>Cupaniopsis anacardioides</i>	Large Leaf Tuckeroo	MT	FE	1 2	S\PS			
<i>Elaeocarpus reticulatus</i>	Blueberry Ash	MT	PE	1 2	S\PS			
<i>Eucalyptus robusta</i>	Swamp Mahogany	TT	PE	1 2 3	S			
<i>Eucalyptus tereticornis</i>	Qld Blue Gum or Forest Red Gum	TT	PE	1234	S	NS	RG	
<i>Hibiscus tiliaceus</i>	Cottonwood	MT	FE	1234	S	NS	RG	
<i>Lomandra longifolia/histrix</i>	Mat-rush	G	FE	1234	S\PS			
<i>Lophostemon confertus</i>	Brush Box	TT	FE	1234	S\PS		RG	
<i>Lophostemon suaveolens</i>	Swamp Box	MT	PE	1234	S			
<i>Macaranga tanarius</i>	Macaranga	MT	FE	1234	S\PS	NS		
<i>Melaleuca quinquenervia</i>	Paperbark Tea Tree	TT	FE	1234	S\PS	NS	RG	
<i>Melastoma affine</i>	Blue Tongue	MS	PE	1234	S\PS			
<i>Pandanus tectorius var. pedunculatus</i>	Pandanus/ Screw Pine	MT	FE	1	S			
<i>Phebalium woombye</i>	Phebalium	MS	FE	1	S\PS			
<i>Ricinocarpos pinifolius</i>	Wedding Bush	MS	FE	1 2 3	S			
<i>Xanthorrhoea johnsonii</i>	Heath Grass-tree	TF	PE	1234	S\PS			

Table 6.2—Secondary Character – Trees and Large Shrubs

Botanical Name	Common Name	Form	Salt	Soil	Aspect	Street	Root	Tube
<i>Acacia aulacocarpa</i>	Hickory Wattle	ST	PE	1 2 3	S	NS		
<i>Acacia complanata</i>	Flat Stem Wattle	ST	PE	1 2	S\PS			
<i>Acacia concurrens</i>	Dog Wattle	LS	FE	1 2	S	NS		T
<i>Acacia leiocalyx</i>	Lambs Tail Wattle	ST	PE	1 2	S	NS		T
<i>Acacia maidenii</i>	Maiden's Wattle	MT	NT	1 2	S	NS		
<i>Acacia oshanesii</i>	Irish Wattle	ST	PE	1 2	S\PS\SH	NS		
<i>Acmena hemilampra</i>	Broad Leaved Lilly Pilly	ST	NT	1 2	S\PS			
<i>Acmena smithii</i>	Lilly Pilly	ST	NT	1234	S\PS\SH			
<i>Allocasuarina littoralis</i>	Black She-Oak	ST	PE	1234	S		RG	
<i>Alyxia illicifolia subspecies magnifolia</i>	Large Leaved Chain fruit	LS	NT	1 2	PS\ SH	NS		
<i>Angophora leiocarpa</i>	Smooth Barked Apple	MT	NT	1234	S	NS		T
<i>Banksia serrata</i>	Red honeysuckle	MT	NT	1	S			
<i>Callistemon salignus</i>	Weeping White Bottle Brush	ST	NT	1234	S\PS			
<i>Callistemon sp</i>	All Cultivars	LS	NT	1234	S\PS			
<i>Canthium coprosmoides</i>	Beach canthium	LS	FE	1 2	S\PS			
<i>Casuarina glauca</i>	Swamp She-oak	MT	FE	2 3 4	S	NS	RG	
<i>Clerodendron inerme</i>		LS	FE	1	S\PS			
<i>Commersonia bartramii</i>	Brown Kurrajong	MT	PE	1234	S\PS			
<i>Corymbia gummifera</i>	Red Bloodwood	TT	NT	1 2	S			
<i>Cupaniopsis parviflora</i>	Small-leaved Tuckeroo	MT	NT	1 2	S\PS			

Botanical Name	Common Name	Form	Salt	Soil	Aspect	Street	Root	Tube
<i>Elaeocarpus obovatus</i>	Hard Quandong	TT	PE	1 2	S\PS		RG	
<i>Eucalyptus bancroftii</i>	Tumbledown Gum	ST	PE	1234	S			
<i>Eucalyptus conglomerata</i>	Swamp Stringybark	MT	FE	1234	S			
<i>Eucalyptus microcorys</i>	Tallowood	TT	PE	2	S		RG	
<i>Eucalyptus racemosa</i>	Scribbly Gum	TT	NT	1	S			
<i>Ficus coronata</i>	Creek Sandpaper Fig	ST	FE	1 2	S\PS		RG	T
<i>Ficus macrophylla</i>	Moreton Bay Fig	TT	FE	1234	S		RG	
<i>Ficus obliqua</i>	Small-leaved Fig	TT	FE	1234	S		RG	
<i>Ficus platypoda</i>	Rock Fig	LT	FE	1 2	S		RG	
<i>Glochidion ferdinandi</i>	Cheese Tree	MT	NT	1234	S\PS		RG	
<i>Glochidion sumatranum</i>	Umbrella Cheese Tree	MT	PE	1234	S\PS		RG	
<i>Gmelina leichhardtii</i>	White Beech	MT	NT	1 2	S\PS			
<i>Grevillea banksii</i>	Red Flowered Silky Oak	ST	PE	1 2	S\PS			
<i>Halfordia kendack</i>	Southern Ghittoe	MT	NT	1 2	S\PS			
<i>Hibiscus heterophyllus</i>	Native Rosella	LS	NT	1234	S\PS			T
<i>Hibiscus splendens</i>	Splendid Hibiscus	LS	NT	1234	S\PS			T
<i>Jacksonia scoparia</i>	Dogwood/Native Broom	LS	PE	1 2	S\PS			
<i>Leptospermum petersonii</i>	Lemon Scented Tea Tree	LS	PE	1 2	S			
<i>Leptospermum polygalifolium</i>	Wild May	LS	PE	1234	S\PS			
<i>Leptospermum speciosum</i>	Wallum Tea Tree	LS	PE	1234	S\PS			
<i>Melaleuca bracteata</i>	Revolution Green and Revolution Gold	TT	NT	1234	S			
<i>Melaleuca sieberi</i>		MT	PE	1234	S			
<i>Melicope elleryana</i>	Pink Euodia	MT	NT	1234	S\PS			
<i>Omalanthus nutans</i>	Native Bleeding Heart	ST	NT	1234	S\PS			
<i>Petalostigma pubescens</i>	Quinine Berry	ST	FE	1	S			
<i>Petalostigma triloculare</i>	Quinine Berry	MT	FE	1 2	S\PS			
<i>Pilidiostigma rhytisperma</i>	Plum Myrtle	LS	PE	1 2	PS\SH			
<i>Polyscias elegans</i>	Celery Wood	MT	PE	1234	S\PS			
<i>Synoum glandulosum</i>	Scentless Rosewood	ST	NT	1234	PS\SH			T
<i>Vitex trifolia var bicolor</i>	Coastal vitex	ST	FE	1 2	S\PS			

Table 6.3—Secondary Character - Small/Medium Shrubs, Vines and Groundcovers

Botanical Name	Common Name	Form	Salt	Soil	Aspect	Street	Root	Tube
<i>Acacia suaveolens</i>	Sweet wattle	MS	NT	1234	S\PS			
<i>Alpinia caerulea</i>	Native Ginger	TF	NT	1234	PS\SH			
<i>Alyxia ruscifolia</i>	Chain Berry	MS	NT	1 2	PS\SH			
<i>Aotus ericoides</i>	Eggs and Bacon	MS	NT	1 2	S			
<i>Aotus lanigera</i>	Golden Candlesicks	MS	PE	1	S			
<i>Austromyrtus dulcis</i>	Midyim	GC	FE	1 2	S\PS			
<i>Baeckea stenophylla</i>	Weeping Baeckea	MS	NT	1 2	S\PS			
<i>Banksia oblongifolia</i>	Dwarf banksia	SS	PE	1	S			
<i>Banksia robur</i>	Swamp Banksia	MS	PE	1234	S\PS			
<i>Banksia spinulosa</i>	Golden candlesticks	MS	NT	1 2	S\PS			
<i>Bauera Capitata</i>		SS	PE	1 2	S\PS			
<i>Bauera rubioides</i>	Wiry Dog Rose	SS	NT	1 2	S\PS			
<i>Baumea rubiginosa</i>	Soft Twigrush	G	NT	3 4	S			T
<i>Blechnum spp.</i>	Water Ferns	TF	NT	1234	S\PS\SH			

Botanical Name	Common Name	Form	Salt	Soil	Aspect	Street	Root	Tube
<i>Boronia falcifolia</i>	Wallum Boronia	MS	PE	3	S			
<i>Boronia rivularis</i>	Wide Bay Boronia	MS	PE	1 2 3	S\PS			
<i>Bracteantha sp.</i>	Federation Daisy	GC	NT	1 2	S\PS			
<i>Callistemon pachyphyllus</i>	Swamp Callistemon	MS	PE	1234	S\PS			
<i>Carpobrotus glaucescens</i>	Pigface	GC	FE	1	S			
<i>Crinum pedunculatum</i>	River Lily	TF	PE	1234	S			
<i>Dianella caerulea</i>	Flax Lilly	TF	FE	1 2	S\PS			
<i>Dianella congesta</i>	Beach Flax Lily	TF	FE	1	S\PS			
<i>Dillwynia retorta</i>	Heathy Parrot Pea	MS	FE	1	S\PS			
<i>Dodonea triquetra</i>	Native Hop	MS	PE	1 2	S\PS			T
<i>Eleocharis genticulata</i>	Spikerush	TF	FE	1234	S	NS		T
<i>Eleocharis minuta</i>	Spikerush	TF	FE	1234	S	NS		T
<i>Eleocharis ochrostachys</i>	Spikerush	TF	NT	1234	S	NS		T
<i>Eleocharis spiralis</i>	Spikerush	TF	FE	1234	S\PS	NS		T
<i>Eleocharis tetraquetra</i>	Spikerush	TF	NT	2 3 4	S	NS		T
<i>Eriostemon spp.</i>	Qld. Wax flower	SS	NT		S\PS			
<i>Grevillea sp</i>	All Cultivars	MS	NT	1 2	S			
<i>Hakea actites</i>	Prickly Hakea	MS	NT	1234	S\PS			
<i>Hardenbergia violacea</i>	Native Sarsparilla	GC	PE	1 2	S\PS			
<i>Helichrysum spp.</i>	Golden Buttons\ paper daisy	GC	PE	1 2	S			
<i>Hibbertia obtusifolia</i>	Guinea Flower	SS	PE	1 2	S\PS			
<i>Hibbertia scandens</i>	Twining Guinea Flower	V	FE	1 2	S\PS	NS		
<i>Hibiscus diversifolius</i>	Swamp Hibiscus	MS	NT	1234	S\PS			
<i>Ipomoea pes-caprae</i>	Goats Foot Convolvulus	GC	FE	1	S			T
<i>Juncus usitatus</i>	Common Rush	TF	NT	1234	S	NS		T
<i>Kennedia rubicunda</i>	Running Postman	V		1 2 3	S\PS	NS		
<i>Leptospermum liversidgei</i>	Lemon Scented Leptospermum	MS	PE	1234	S			
<i>Lomandra confertifolia</i>	Mat-rush	G	NT	1 2	S\PS			
<i>Melaleuca nodosa</i>	Prickly Leaved Paperbark	MS	PE	1234	S			T
<i>Myoporum acuminatum</i>		GC	FE	1 2	S			T
<i>Petrophila shirleyae</i>	Drumsticks, Conesticks	MS		1 2 3	S\PS			
<i>Phebalium woombye prostrate form</i>		GC	FE	1	S			
<i>Pultenea spp.</i>	cv, Wallum Gold	SS	PE	1 2	S\PS			
<i>Pultenea spp.</i>	Bush Pea/Bacon & Eggs	MS	PE	1 2	S\PS			
<i>Ricinocarpus pinifolius prostrate form</i>	Wedding Bush prostrate forms	GC	FE	1	S\PS			
<i>Scaevola calendulacea</i>	Dune Fan Flower	GC	FE	1	S			T
<i>Sowerbaea juncea</i>	Vanilla Lily	TF	PE	1 2	S\PS			T
<i>Strangea linearis</i>	Strangea	MS	PE	1 2 3	S			
<i>Themeda triandra</i>	Kangaroo Grass	TF	FE	1234	S\PS			T
<i>Viola betonicifolia</i>	Betony Leaved Violet	GC	NT	1234	S\PS			
<i>Viola hederacea</i>	Native Violet	GC	NT	1234	PS\ SH			
<i>Wahlebergia stricta</i>	Bluebells	TF	PE	1	S\PS	NS		

7. Woodland/Open Forest Areas

7.1 Following is a list of species that characterise open forest and woodland landscape character areas.

Table 7.1—Primary Character Species

Botanical Name	Common Name	Form	Salt	Soil	Aspect	Street	Root	Tube
<i>Acacia aulacocarpa</i>	Hickory Wattle	ST	PE	1 2 3	S	NS		
<i>Acacia concurrens</i>	Dog Wattle	LS	FE	1 2	S	NS		T
<i>Acacia leiocalyx</i>	Lambs Tail Wattle	ST	PE	1 2	S	NS		T
<i>Acacia melanoxylon</i>	Blackwood	TT	NT	1 2 3	S	NS		
<i>Allocasuarina littoralis</i>	Black She-oak	ST	PE	1234	S		RG	
<i>Allocasuarina torulosa</i>	Forest Oak	ST	NT	2	S\PS			
<i>Alphitonia excelsa</i>	Red Ash	MT	PE	1234	S\PS			
<i>Angophora leiocarpa</i>	Smooth Barked Apple	MT	NT	1234	S	NS		T
<i>Callistemon salignus</i>	Weeping White Bottle Brush	ST	NT	1234	S\PS			
<i>Callitris columellaris</i>	Cooloola Cypress Pine	TT	FE	1 2	S			
<i>Corymbia citriodora</i>	Spotted Gum	MT	NT	2	S	NS		
<i>Corymbia intermedia</i>	Pink Bloodwood	TT	PE	1 2	S			
<i>Corymbia tessellaris</i>	Moreton Bay Ash	TT	FE	1 2	S			
<i>Dodonea triquetra</i>	Native Hop	MS	PE	1 2	S\PS			T
<i>Eucalyptus crebra</i>	Narrow-leaved Ironbark	TT	NT	2	S	NS		
<i>Eucalyptus grandis</i>	Flooded Gum	TT	NT	1 2 3	S\PS	NS	RG	
<i>Eucalyptus microcorys</i>	Tallowwood	TT	PE	2	S		RG	
<i>Eucalyptus pilularis</i>	Blackbutt	TT	NT	1 2	S			T
<i>Eucalyptus propinqua</i>	Grey Gum	TT	NT	2	S			
<i>Eucalyptus racemosa</i>	Scribbly Gum	TT	NT	1	S			
<i>Eucalyptus resinifera</i>	Red Mahogany	TT	NT	1	S		RG	T
<i>Eucalyptus robusta</i>	Swamp Mahogany	TT	PE	1 2 3	S			
<i>Eucalyptus siderophloia</i>	Grey Ironbark	TT	NT	2	S			
<i>Eucalyptus tereticornis</i>	Qld Blue Gum or Forest Red Gum	TT	PE	1234	S	NS	RG	
<i>Gahnia aspera</i>	Saw sedge	TF	NT	1234	S\PS			
<i>Hovea acutifolia</i>	Hovea	MS	NT	1234	S\PS			
<i>Jacksonia scoparia</i>	Dogwood/ Native Broom	LS	PE	1 2	S\PS			
<i>Livistona australis</i>	Cabbage Palm	TT	NT	1234	S\PS			
<i>Lomandra longifolia/histrrix</i>	Mat-rush	TF	FE	1234	S\PS			
<i>Lophostemon confertus</i>	Brush Box	TT	FE	1234	S\PS		RG	
<i>Lophostemon suaveolens</i>	Swamp Box	MT	PE	1234	S			
<i>Melaleuca quinquenervia</i>	Paperbark Tea Tree	TT	FE	1234	S\PS	NS	RG	
<i>Melastoma affine</i>	Blue Tongue	MS	PE	1234	S\PS			
<i>Syncarpia glomulifera</i>	Turpentine	TT	NT	1 2	S			
<i>Xanthorrhoea johnsonii</i>	Heath Grasstree	TF	PE	1234	S\PS			

Table 7.2—Secondary Character - Trees and Large Shrubs

Botanical Name	Common Name	Form	Salt	Soil	Aspect	Street	Root	Tube
<i>Acacia fimbriata</i>	Brisbane Wattle	ST	NT	1 2	S			
<i>Acacia flavescens</i>	Primrose ball wattle	ST	PE	1 2	S			

Botanical Name	Common Name	Form	Salt	Soil	Aspect	Street	Root	Tube
<i>Acmena smithii</i>	Lilly Pilly	ST	NT	1234	S\PS\SH			
<i>Agathis robusta</i>	Queensland Kauri	MT	NT	1 2	S		RG	
<i>Allocasuarina cunninghamiana</i>	River Oak	MT	NT	2 3 4	S	NS	RG	
<i>Alphitonia petriei</i>	Pink Ash	TT	NT	2	S\PS			
<i>Araucaria bidwillii</i>	Bunya Pine	TT	NT	2	S	NS	RG	
<i>Backhousia myrtifolia</i>	Grey myrtle	ST	NT	1234	S\PS			
<i>Banksia integrifolia</i>	Coastal Banksia	MT	FE	1 2	S			
<i>Brachychiton bidwillii</i>	Rusty Kurrajong	LS	NT	2	S\PS			
<i>Brachychiton discolor</i>	Lace Bark Tree	MT	NT	2	S\PS			
<i>Brachychiton populneus</i>	Kurrajong	MT	NT	2	S\PS			
<i>Callistemon pachyphyllus</i>	Swamp Callistemon	LS	PE	1234	S\PS			
<i>Callistemon viminalis</i>	Weeping Red Bottle Brush	MT	NT	1234	S\PS			
<i>Casuarina glauca</i>	Swamp She-Oak	MT	FE	2 3 4	S	NS	RG	
<i>Commersonia bartramii</i>	Brown Kurrajong	MT	PE	1234	S\PS			
<i>Corymbia gummifera</i>	Red Bloodwood	TT	NT	1 2	S			
<i>Corymbia trachyphloia</i>	Brown Bloodwood	TT	NT	2	S			
<i>Cupaniopsis anacardioides</i>	Large Leaf Tuckeroo	MT	FE	1 2	S\PS			
<i>Cupaniopsis parviflora</i>	Small-leaved Tuckeroo	MT	NT	1 2	S\PS			
<i>Cyathea cooperi</i>	Tree Fern	MT	NT	1234	SH	NS		
<i>Elaeocarpus reticulatus</i>	Blueberry Ash	MT	PE	1 2	S\PS			
<i>Eucalyptus cloeziana</i>	Gympie Messmate	TT	NT	2	S	NS	RG	T
<i>Eucalyptus seeana</i>	Narrow Leaved Red Gum	TT	NT	2 3	S			
<i>Eucalyptus umbra</i>	Shade Mahogany	TT	NT	1234	S	NS		T
<i>Euroschinus falcata var. falcata</i>	Ribbonwood	TT	NT	1 2	S\PS	NS		T
<i>Ficus obliqua</i>	Small-leaved Fig	TT	NT	1234	S		RG	
<i>Ficus platypoda</i>	Rock Fig	LT	FE	1 2	S		RG	
<i>Glochidion ferdinandi</i>	Cheese Tree	MT	NT	1234	S\PS		RG	
<i>Glochidion sumatranum</i>	Umbrella Cheese Tree	MT	PE	1234	S\PS		RG	
<i>Gmelina leichhardtii</i>	White Beech	MT	NT	1 2	S\PS			
<i>Grevillea banksii</i>	Red Flowered Silky Oak	ST	PE	1 2	S\PS			
<i>Hibiscus heterophyllus</i>	Native Rosella	LS	NT	1234	S\PS			T
<i>Hibiscus splendens</i>	Splendid Hibiscus	LS	NT	1234	S\PS			T
<i>Hibiscus tiliaceus</i>	Cottonwood	MT	FE	1234	S	NS	RG	
<i>Leptospermum petersonii</i>	Lemon Scented Tea Tree	LS	PE	1 2	S			
<i>Leptospermum polygalifolium</i>	Wild May	LS	PE	1234	S\PS			
<i>Leptospermum speciosum</i>	Wallum Tea Tree	LS	PE	1234	S\PS			
<i>Livistona decipiens</i>	Weeping Cabbage Palm	TT	NT	1234	S\PS			
<i>Melaleuca bracteata</i>	Revolution Green and Revolution Gold	ST	NT	1234	S			
<i>Melia azedarach</i>	White Cedar	MT	PE	1 2	S\PS			
<i>Melicope elleryana</i>	Pink Euodia	MT	NT	1234	S\PS			
<i>Homalanthus nutans</i>	Native Bleeding Heart	ST	NT	1234	S\PS			
<i>Petalostigma pubescens</i>	Quinine Berry	ST	FE	1	S			
<i>Petalostigma triloculare</i>	Quinine Berry	MT	FE	1 2	S\PS			
<i>Pittosporum revolutum</i>	Yellow Pittosporum	LS	NT	1 2	S\PS			
<i>Pittosporum undulatum</i>	Mock Orange	MT	NT	1 2	S\PS			
<i>Polyscias elegans</i>	Celery Wood	MT	PE	1234	S\PS			
<i>Rapanea variabilis</i>	Muttonwood	ST		1 2	S\PS			T
<i>Synoum glandulosum</i>	Scentless Rosewood	ST	NT	1234	PS\SH			T
<i>Syzigium oleosum</i>	Blue Lilly-Pilly	MT	NT	1234	S\PS			
<i>Tristanopsis laurina</i>	Giant Water Gum	TT	NT	1234	S\PS			

Botanical Name	Common Name	Form	Salt	Soil	Aspect	Street	Root	Tube
<i>Waterhousia floribunda</i>	Weeping Lilly Pilly	TT	NT	1234	S\PS			

Table 7.3—Secondary Character - Small/Medium Shrubs, Vines and Groundcovers

Botanical Name	Common Name	Form	Salt	Soil	Aspect	Street	Root	Tube
<i>Acacia complanata</i>	Flat Stem Wattle	MS	PE	1 2	S\PS			
<i>Acacia suaveolens</i>	Sweet wattle	MS	NT	1234	S\PS			
<i>Adiantum spp.</i>	Maidenhair Ferns	GC	NT	1234	SH			
<i>Alpinia caerulea</i>	Native Ginger	TF	NT	1234	PS\SH			
<i>Austromyrtus dulcis</i>	Midyim	GC	FE	1 2	S\PS			
<i>Baeckea virgata</i>	Twiggy myrtle	MS	NT	1234	S\PS			
<i>Banksia robur</i>	Swamp Banksia	MS	PE	1234	S\PS			
<i>Banksia spinulosa</i>	Golden candlesticks	MS	NT	1 2	S\PS			
<i>Bauera rubioides</i>	Wiry Dog Rose	SS	NT	1 2	S\PS			
<i>Baumea rubiginosa</i>	Soft Twigrush	G	NT	3 4	S			T
<i>Blechnum spp.</i>	Water Ferns	TF	NT	1234	S\PS\SH			
<i>Bracteantha sp.</i>	Federation Daisy	GC	NT	1 2	S\PS			
<i>Cissus antarctica</i>	Water Vine	V	NT	1 2	S\PS	NS		
<i>Cissus hypoglauca</i>	Five Leaf Water Vine	V	NT	1 2	S\PS	NS		
<i>Cordyline petiolaris</i>	Broad-leaved palm Lily	MS	NT	1234	PS\SH			
<i>Cordyline rubra</i>	Red-fruited Palm lily	MS	NT	1234	PS\SH			
<i>Crinum pedunculatum</i>	River Lily	TF	PE	1234	S			
<i>Cymbopogon refractus</i>	Barbed Wire Grass	G	NT	1 2	S\PS			T
<i>Dianella caerulea</i>	Flax Lilly	TF	FE	1 2	S\PS			
<i>Eleocharis equisetina</i>	Spikerush	TF	NT	2 3 4	S	NS		T
<i>Eleocharis genticulata</i>	Spikerush	TF	FE	1234	S	NS		T
<i>Eleocharis minuta</i>	Spikerush	TF	FE	1234	S	NS		T
<i>Eleocharis ochrostachys</i>	Spikerush	TF	NT	1234	S	NS		T
<i>Eleocharis spiralis</i>	Spikerush	TF	FE	1234	S\PS	NS		T
<i>Eleocharis tetraquetra</i>	Spikerush	TF	NT	2 3 4	S	NS		T
<i>Eriostemon spp.</i>	Qld. Wax flower	SS	NT		S\PS			
<i>Hardenbergia violacea</i>	Native Sarsparilla	GC	PE	1 2	S\PS			
<i>Helichrysum spp.</i>	Golden Buttons\ paper daisy	GC	PE	1 2	S			
<i>Hibbertia scandens</i>	Twining Guinea Flower	V	FE	1 2	S\PS	NS		
<i>Juncus usitatus</i>	Common Rush	TF	NT	1234	S	NS		T
<i>Kennedia rubicunda</i>	Running Postman	V		1 2 3	S\PS	NS		
<i>Lobelia membranacea</i>	Lawn Lobelia	GC	NT	1234	S\PS\SH			
<i>Lomandra confertifolia</i>	Mat-rush	G	NT	1 2	S\PS			
<i>Lomatia silacifolia</i>	Parsley Bush	MS	NT	1 2	S\PS			T
<i>Microlaena stipoides</i>	Weeping Grass	G	NT	1234	PS\SH			T
<i>Myoporum acuminatum</i>		GC	FE	1 2	S			T
<i>Omalanthus stillingifolius</i>	Dwarf Bleeding Heart	SS	NT	1 2	PS\SH			
<i>Phebalium woombye</i>	Phebalium	MS	FE	1	S\PS			
<i>Phebalium woombye prostrate form</i>		GC	FE	1	S			
<i>Phylidrum lanuginosum</i>	Frogmouth	TF	NT	1234	S			T
<i>Platysace lancolatus</i>		SS	FE	1 2	S\PS			
<i>Plectranthus spp.</i>	Native coleus	SS	NT	1 2	S\PS			T
<i>Poa labillardierii</i>	Tussock Grass	G	NT	1 2	S\PS			

Botanical Name	Common Name	Form	Salt	Soil	Aspect	Street	Root	Tube
<i>Pultenea</i> spp.	cv, Wallum gold	SS	PE	1 2	S\PS			
<i>Pultenea</i> spp.	Bush pea/bacon & eggs	MS	PE	1 2	S\PS			
<i>Restio tetraphyllus</i>	Foxtails	TF	NT	1 3 4	S\PS	NS		T
<i>Ricinocarpus pinifolius prostrate form</i>	Wedding Bush prostrate forms	GC	FE	1	S\PS			
<i>Sowerbaea juncea</i>	Vanilla Lily	TF	PE	1 2	S\PS			T
<i>Tabernaemontana pandacaqui</i>	Banana Bush	MS	NT	1234	S\PS	NS		T
<i>Themeda triandra</i>	Kangaroo Grass	TF	FE	1234	S\PS			T
<i>Viola betonicifolia</i>	Betony Leaved Violet	GC	NT	1234	S\PS			
<i>Viola hederacea</i>	Native Violet	GC	NT	1234	PS\SH			
<i>Xanthorrhoea latifolia</i>	Forest Grasstree	TF	NT	1 2	S\PS			

8. Closed Forest/Rainforest Areas

8.1 Following is a list of species that characterise closed forest/rainforest landscape character areas.

8.2 Numerous ferns, cycads and orchids are suitable for shaded areas under rainforest canopy. Table 5.3 lists some suggested species.

Table 8.1—Primary Character Species

Botanical Name	Common Name	Form	Salt	Soil	Aspect	Street	Root	Tube
<i>Acmena smithii</i>	Lilly Pilly	ST	NT	1234	S\PS\SH			
<i>Agathis robusta</i>	Queensland Kauri	MT	NT	1 2	S		RG	
<i>Alphitonia petriei</i>	Pink Ash	TT	NT	2	S\PS			
<i>Aphananthe philippinensis</i>	Rough leaved elm	MT	NT	1 2	S\PS			
<i>Araucaria cunninghamii</i>	Hoop Pine	TT	PE	1 2	S		RG	
<i>Archontophoenix cunninghamiana</i>	Picabeen/Bangalow Palm	P	NT	1234	PS\SH	NS		
<i>Argyrodendron trifoliatum</i>	Booyong	MT	NT	1 2	S\PS			T
<i>Castanospermum australe</i>	Black Bean	TT	NT	1234	S\PS		RG	
<i>Commersonia bartramii</i>	Brown Kurrajong	MT	PE	1234	S\PS			
<i>Cryptocarya glaucescens</i>	Jackwood	MT	NT	1 2	S\PS			
<i>Diploglottis australis</i>	Native Tamarind	TT	NT	1 2	S\PS			
<i>Elaeocarpus eumundi</i>	Eumundi Quandong	TT	NT	1 2	S\PS			
<i>Elaeocarpus grandis</i>	Blue Quandong	TT	NT	1 2	S\PS		RG	
<i>Elaeocarpus obovatus</i>	Hard Quandong	TT	PE	1 2	S\PS		RG	
<i>Eucalyptus grandis</i>	Flooded Gum	TT	NT	1 2 3	S\PS	NS	RG	
<i>Euroschinus falcata var.</i>	Ribbonwood	TT	NT	1 2	S\PS	NS		T
<i>Ficus coronata</i>	Creek Sandpaper Fig	ST	FE	1 2	S\PS		RG	T
<i>Ficus fraseri</i>	Sandpaper Fig	MT	NT	1 2	S		RG	T
<i>Ficus macrophylla</i>	Moreton Bay Fig	TT	FE	1234	S		RG	
<i>Ficus obliqua</i>	Small-leaved Fig	TT	FE	1234	S		RG	
<i>Flindersia australis</i>	Crows Ash	MT	NT	2	S			
<i>Flindersia bennettiana</i>	Bennett's Ash	MT	NT	1 2	S			
<i>Flindersia schottiana</i>	Bumpy Ash, Cudgerie	TT	NT	1 2	S\PS			
<i>Glochidion ferdinandi</i>	Cheese Tree	ST	NT	1234	S\PS		RG	
<i>Grevillea robusta</i>	Silky Oak	TT		1 2	S\PS		RG	
<i>Harpullia pendula</i>	Tulipwood	MT	NT	1 2	S\PS			

Botanical Name	Common Name	Form	Salt	Soil	Aspect	Street	Root	Tube
<i>Homalanthus nutans</i>	Native Bleeding Heart	ST	NT	1234	S\PS			
<i>Jagera pseudorhus</i>	Foambark Tree	MT	NT	1 2	S\PS			
<i>Livistona australis</i>	Cabbage Palm	TT	NT	1234	S\PS			
<i>Macaranga tanarius</i>	Macaranga	MT	FE	1234	S\PS	NS		
<i>Mallotus philippensis</i>	Red Kamala	MT	NT	1 2	S\PS			
<i>Melia azedarach</i>	White Cedar	MT	PE	1 2	S\PS			
<i>Melicope elleryana</i>	Pink Euodia	MT	NT	1234	S\PS			
<i>Podocarpus elatus</i>	Plum Pine/Brown Pine	MT	NT	1 2	S\PS			
<i>Polyscias elegans</i>	Celery Wood	MT	PE	1234	S\PS			
<i>Sloanea woollsii</i>	Yellow Carabeen	TT	NT	1 2	S\PS			
<i>Syzygium australe</i>	Brush Cherry	ST	NT	1234	S\PS			
<i>Toona ciliata</i>	Red Cedar	MT	NT	1 2	S\PS			
<i>Waterhousia floribunda</i>	Weeping Lilly Pilly	TT	NT	1234	S\PS			

Table 8.2—Secondary Character - Trees and Large Shrubs

Botanical Name	Common Name	Form	Salt	Soil	Aspect	Street	Root	Tube
<i>Acacia disparima</i>	Hickory Wattle	ST	PE	1 2 3	S	NS		
<i>Acacia melanoxylon</i>	Blackwood	TT	NT	1 2 3	S	NS		
<i>Acmena hemilampra</i>	Broad Leaved Lilly Pilly	ST	NT	1 2	S\PS			
<i>Acmena ingens (brachyandra)</i>	Red Apple	MT	NT	2	SH			
<i>Acronychia imperforata</i>	Fraser Island Apple	ST	FE	1	S\PS			
<i>Allocasuarina torulosa</i>	Forest Oak	ST	NT	2	S\PS			
<i>Alphitonia excelsa</i>	Red Ash	MT	PE	1234	S\PS			
<i>Araucaria bidwillii</i>	Bunya Pine	TT	NT	2	S	NS	RG	
<i>Atractocarpus chartacea</i>	Narrow-Leaved Native Gardenia	LS	NT	1 2	PS\SH			
<i>Auranticarpa rhombifolia</i>	Hollywood	ST	NT	1 2	S\PS			
<i>Austromyrtus acmenioides</i>	Scrub Ironwood	ST	NT	1 2	S\PS			
<i>Austromyrtus hillii</i>	Scaly myrtle	ST	NT	1 2	S\PS			
<i>Backhousia citriodora</i>	Lemon Scented Myrtle	ST	NT	1 2	S\PS			
<i>Backhousia myrtifolia</i>	Grey myrtle	ST	NT	1234	S\PS			
<i>Barklya syringifolia</i>	Crown of Gold Tree	MT	NT	2	S\PS			
<i>Brachychiton acerifolius</i>	Flame Tree	MT	NT	2	S\PS			
<i>Brachychiton discolor</i>	Lace Bark Tree	MT	NT	2	S\PS			
<i>Caldcluvia paniculosa</i>	Soft Corkwood	TT	NT	2	S\PS			
<i>Callicoma serratifolia</i>	Black Wattle	TT	NT	2	S\PS			
<i>Castanospora alphandii</i>	Brown Tamarind	MT	NT	2	S\PS			
<i>Cryptocarya erythroxylon</i>	Pigeonberry Ash	TT	NT	2	S\PS			
<i>Cryptocarya laevigata</i>	Glossy Laurel	LS	NT	1 2	SH			
<i>Cryptocarya macdonaldii</i>	Cooloola Laurel	MT	NT	1 2	S\PS			
<i>Cupaniopsis anacardioides</i>	Large Leaf Tuckeroo	MT	FE	1 2	S\PS			
<i>Cupaniopsis parviflora</i>	Small-leaved Tuckeroo	MT	NT	1 2	S\PS			
<i>Cyathea cooperi</i>	Tree Fern	MT	NT	1234	SH	NS		
<i>Decaspermum humile</i>	Silky Myrtle	ST	NT	1 2	S\PS			
<i>Dysoxylum fraserianum</i>	Rosewood	TT	NT	2	S\PS			
<i>Dysoxylum muelleri</i>	Red Bean	MT	NT	1 2	S\PS		RG	
<i>Elaeocarpus reticulatus</i>	Blueberry Ash	MT	PE	1 2	S\PS			
<i>Emmenosperma alphitonioides</i>	Yellow ash	TT	NT	2	S\PS			

Botanical Name	Common Name	Form	Salt	Soil	Aspect	Street	Root	Tube
<i>Endiandra pubens</i>	Hairy Walnut	TT	NT	2	SH			
<i>Ficus platypoda</i>	Rock Fig	ST	FE	1 2	S		RG	
<i>Flindersia xanthoxyla</i>	Long Jack\ Yellowwood	TT	NT	2	S			
<i>Glochidion sumatranum</i>	Umbrella Cheese Tree	MT	PE	1234	S\PS		RG	
<i>Gmelina leichhardtii</i>	White Beech	MT	NT	1 2	S\PS			
<i>Grevillea hilliana</i>	White Yiel Yiel	MT	NT	1 2	S\PS			
<i>Harpullia hillii</i>	Blunt-leaved Tulipwood	MT	NT	1 2	S\PS			
<i>Hibiscus heterophyllus</i>	Native Rosella	LS	NT	1234	S\PS			T
<i>Hibiscus splendens</i>	Splendid Hibiscus	LS	NT	1234	S\PS			T
<i>Hodgkinsonia ovatiflora</i>	Hodgkinsonia	MT	NT	1 2	S\PS			T
<i>Hymenosporum flavum</i>	Native Frangipani	MT	NT	1234	S\PS			
<i>Linospadix monostachya</i>	Walking Stick Palm	P	NT	1 2	SH	NS		
<i>Livistona decipiens</i>	Weeping Cabbage Palm	TT	NT	1234	S\PS			
<i>Lophostemon confertus</i>	Brush Box	TT	FE	1234	S\PS		RG	
<i>Macadamia integrifolia</i>	Queensland Nut Tree	MT	NT	1 2	S\PS			
<i>Neolitsea dealbata</i>	White Bolly Gum	MT	NT	1234	PS\SH			T
<i>Pararchidendron pruinosum</i>	Snow wood	ST	NT	1 2	S\PS			
<i>Petalostigma triloculare</i>	Quinine Berry	MT	FE	1 2	S\PS			
<i>Pittosporum revolutum</i>	Yellow Pittosporum	LS	NT	1 2	S\PS			
<i>Pittosporum undulatum</i>	Mock Orange	MT	NT	1 2	S\PS			
<i>Polyscias murrayi</i>	Pencil Cedar	MT	NT	2	S\PS			T
<i>Rapanea variabilis</i>	Muttonwood	ST		1 2	S\PS			T
<i>Rhodamnia argentea</i>	Silver Myrtle	ST	NT	1 2	S\PS			
<i>Rhodamnia rubescens</i>	Scrub Turpentine	MT	NT	1 2	S\PS			
<i>Rhodomyrtus psidioides</i>	Native Guava	MT	NT	1234	S\PS			
<i>Rhodosphaera rhodanthema</i>	Deep Yellow Wood	MT	PE	1 2	S\PS			
<i>Stenocarpus sinuatus</i>	Firewheel Tree/Wheel of Fire	MT	NT	1 2	S\PS			
<i>Synoum glandulosum</i>	Scentless Rosewood	ST	NT	1234	PS\SH			T
<i>Syzigium francisii</i>	Francis' Water Gum	MT	NT	1234	S\PS			
<i>Syzigium hodgkinsoniae</i>	Red Lilly Pilly	ST	NT	1 2	PS\SH			
<i>Syzigium luehmannii</i>	Riberry	MT	NT	1234	S\PS			
<i>Syzigium oleosum</i>	Blue Lilly-Pilly	MT	NT	1234	S\PS			
<i>Tristaniopsis laurina</i>	Giant Water Gum	TT	NT	1234	S\PS			
<i>Xanthostemon Oppositifolia</i>	Southern Penda	MT	NT	1 2	S\PS			

Table 8.3—Secondary Character - Small/Medium Shrubs, Vines and Groundcovers

Botanical Name	Common Name	Form	Salt	Soil	Aspect	Street	Root	Tube
<i>Adiantum spp.</i>	Maidenhair Ferns	GC	NT	1234	SH			
<i>Alpinia caerulea</i>	Native Ginger	TF	NT	1234	PS\SH			
<i>Aphanopetalum resinolum</i>	Gum Vine	V	NT	1&2	S\PS	NS		
<i>Aristolochia praevenosa</i>	Richmond Birdwing Vine	V	NT	1&2	S\PS	NS		
<i>Austromyrtus dulcis</i>	Midyim	GC	FE	1&2	S\PS			
<i>Austromyrtus inophloia</i>	cv Blushing Beauty	SS	NT	1&2	S\PS			
<i>Baeckea virgata</i>	Twiggy Myrtle	MS	NT	1234	S\PS			
<i>Blechnum spp.</i>	Water Ferns	TF	NT	1234	S\PS\SH			
<i>Callicarpa pedunculata</i>	Velvet Leaf	MS	NT	2	S\PS			T
<i>Cissus antarctica</i>	Water Vine	V	NT	1&2	S\PS	NS		
<i>Cissus hypoglauca</i>	Five Leaf Water Vine	V	NT	1&2	S\PS	NS		

Botanical Name	Common Name	Form	Salt	Soil	Aspect	Street	Root	Tube
<i>Cordyline petiolaris</i>	Broad-leaved palm Lily	MS	NT	1234	PS\SH			
<i>Cordyline rubra</i>	Red-fruited Palm lily	MS	NT	1234	PS\SH			
<i>Davallia pyxidata</i>	Haresfoot Fern	GC			PS\SH			
<i>Dianella caerulea</i>	Flax Lilly	TF	FE	1&2	S\PS			
<i>Dodonea triquetra</i>	Native Hop	MS	PE	1 2	S\PS			T
<i>Gahnia aspera</i>	Saw sedge	TF	NT	1234	S\PS			
<i>Hovea acutifolia</i>	Hovea	MS	NT	1234	S\PS			
<i>Lomandra longifolia/histrix</i>	Mat-rush	TF	FE	1234	S\PS			
<i>Millettia megasperma</i>	Native Wisteria	V	NT	1234	S\PS	NS		
<i>Omalanthus stillingifolius</i>	Dwarf Bleeding Heart	SS	NT	1&2	PS\SH			
<i>Pandorea jasminoides</i>	Bower of Beauty	V	NT	1,2&3	S\PS	NS		
<i>Pandorea pandorana</i>	Wonga Vine	V		1,2&3	S\PS	NS		
<i>Ptilidostigma glabrum</i>	Plum Myrtle	MS	NT	1 2	PS\SH			
<i>Tabernaemontana pandacaqui</i>	Banana Bush	MS	NT	1234	S\PS	NS		T
<i>Viola betonicifolia</i>	Betony Leaved Violet	GC	NT	1234	S\PS			
<i>Viola hederacea</i>	Native Violet	GC	NT	1234	PS\SH			

9. Undesirable Plant Species

9.1 There are a number of plants that should not be planted due to their undesirable characteristics. Such characteristics include—

- a) Invasive habits;
- b) Potential to become bushland weeds;
- c) Unfortunate/uncontrollable growth characteristics;
- d) Environmental impact on other native species;
- e) Maintenance difficulty; and
- f) Displacement of natural landscape character

9.2 Listed below are species that are not acceptable for inclusion in landscape plans that require Council approval, and their use elsewhere is discouraged. Those species marked with an asterisk (*) are highly invasive through vegetative reproduction and rampant growth habit. They should be removed where possible and should NEVER be disposed of as garden waste in bushland.

Table 9.1—Undesirable Plant Species

Botanical Name	Common Name
<i>Agave sp.</i>	
<i>Ageratum housanianum</i>	Billygoat Weed
<i>Anredera cordifolia*</i>	Madiera Vine
<i>Aristolochia durior*</i>	Dutchman's Pipe
<i>Aristolochia elegans*</i>	
<i>Aristolochia macrophylla*</i> Exotic species of <i>Aristolochia</i> is poisonous to the Richmond Birdwing butterflies	
<i>Asparagus africanus*</i>	Climbing Asparagus Fern
<i>Asparagus plumose*</i>	Climbing Asparagus Fern
<i>Asparagus aethiopicus var. Sprengeri*</i>	Basket Asparagus Fern
<i>Baccarus halimifolia</i>	Groundsel
<i>Bambusa spp</i>	Bamboo all varieties
<i>Bougainvillea spp</i>	Bougainvillea
<i>Buddleja madagascariensis</i>	Buddleja

<i>Bryophyllum</i> spp*	Mother of Millions
<i>Cabomba caroliniana</i> (aquatic)	Cabomba
<i>Callisia fragrans</i>	Purple succulent
<i>Cabomba caroliniana</i>	Cabomba, Fanwort
<i>Canna indica</i>	
<i>Cardiospermum grandiflorum</i> *	Balloon Vine
<i>Cassia obtusifolia</i>	Sicklepod
<i>Celtis sinensis</i>	Chinese Elm
<i>Cinnamomum champhora</i>	Camphor Laurel
<i>Coffea arabica</i>	Coffee
<i>Cortaderia silloana</i>	Pampas Grass
<i>Corymbia torelliana</i>	Cadaghi Gum
<i>Desmodium uncinatum</i>	Silver-leaved Desmodium
<i>Diospyros kaki</i>	Persimmon Tree
<i>Duranta repens</i>	Butterfly Bush
<i>Egeria densa</i> (aquatic)	Dense waterweed
<i>Eichhornia crassipes</i> (aquatic)	Water hyacinth
<i>Elodea canadensis</i> (aquatic)	Elodea
<i>Eriobotrya japonica</i>	Loquat
<i>Erythrina crista-galli</i>	Coral tree
<i>Eugenia unifolora</i>	Brazilian cherry
<i>Euphorbia cyathophora</i>	Dwarf Poinsettia
<i>Ficus benjamina</i>	Weeping fig
<i>Ficus elastica</i>	Rubber Tree
<i>Fraxinus griffithi</i>	Himalayan Ash
<i>Fraxinus ornus</i>	Ash
<i>Gloriosa superba</i> *	Glory Lily
<i>Gomphocarpus physocarpus</i>	Balloon Cotton
<i>Hygrophila costata</i>	Hygrophila
<i>Impatiens</i> sp.	Balsam
<i>Ipomoea acuminata</i> *	
<i>Ipomoea cirica</i> *	Mile a Minute
<i>Ipomoea indica</i> *	Morning Glory
<i>Jacaranda mimosiflora</i>	Jacaranda
<i>Koelreuteria elegans</i>	Golden Rain Tree
<i>Lantana camara</i>	Lantana
<i>Lantana montevidensis</i>	Creeping Lantana
<i>Leucaena</i> spp	Leucaena
<i>Ligustrum lucidum</i>	Broad Leaf Privet
<i>Ligustrum sinense</i>	Small Leaf Privet
<i>Lonicera japonica</i> *	Honeysuckle
<i>Macfadyena unguis-cati</i> *	Cats Claw Creeper
<i>Macroptilium atropurpureum</i>	Siratro
<i>Macrotyloma axillare</i>	Archer axillaries
<i>Murraya paniculata</i>	Mock Orange
<i>Nephrolepis cordifolia</i>	Fishbone Fern
<i>Ochna serrulata</i>	Ochna
<i>Passiflora</i> spp*	Passionfruit vines
<i>Paulownia tomentose</i>	Paulownia
<i>Pereskia aculeate</i>	Leaf cactus
<i>Phyla canescens</i>	Lippia, Condamine couch
<i>Pinus</i> spp	Exotic pine trees
<i>Pistia stratoides</i> (aquatic)	Water lettuce
<i>Pyrostegia venusta</i>	Orange trumpet vine
<i>Radermachera sinica</i>	Asian Bell Tree
<i>Rhapiolepis indica</i>	Indian Hawthorn
<i>Salvinia molesta</i> (aquatic)	Salvinia
<i>Sansevieria trifasciata</i>	Mother in Laws Tongue
<i>Schefflera actinophylla</i>	Umbrella Tree
<i>Schinus molle</i>	Pepper Tree
<i>Schinus terebinthifolia</i>	Broad Leaf Pepper Tree

<i>Senna pendula</i> var. <i>glabra</i>	Easter Cassia
<i>Senna floribunda</i>	Winter Cassia
<i>Spathodea campanulata</i> (fallen flowers are a hazard to pedestrians in paved areas)	African Tulip Tree
<i>Sphagneticola trilobata</i> *	Singapore Daisy
<i>Sporobolus</i> spp.	Giant Rat's Tail Grass
<i>Syagrus romanzoffiana</i>	Cocos Palm
<i>Tecoma stans</i>	Yellow Bells
<i>Tipuana tipu</i>	Tipuana
<i>Tithonia diversifolia</i>	Japanese Sunflower
<i>Thunbergia alata</i> *	Black-eyed Susan
<i>Thunbergia grandiflora</i>	Blue thunbergia
<i>Tradescantia fluminense</i> *	Wandering Jew
<i>Zebrina pendula</i>	Wandering Jew

And all declared weeds

10. Koala Food Trees

10.1 Following is a list suitable koala food trees where:

P denotes primary food source

S denotes secondary food source

10.2 The Australian Koala Foundation has listed other species suitable as "Preferred Koala Shelter Trees".

10.3 Observation has shown the species below marked by an asterisk (*) are particularly well used by the local koala population.

10.4 Several areas of Noosa Shire represent important habitat and corridors for koalas, and additional planting of primary koala food trees and habitat trees is sought in these areas.

10.5 The taller species of the eucalypts should only be used in large open areas and koala food trees should not be planted in close proximity to major roads. All of the species below are native to the Sunshine Coast and Coolooloa area.

Table 10.1—Koala Food Trees

Botanical Name	Common Name	
<i>Acacia aulacocarpa</i>	Hickory Wattle	
<i>Acacia melanoxylon</i>	Blackwood	
<i>Callitris columellaris</i>	Coolooloa Cypress Pine	
<i>Corymbia maculata</i>	Spotted Gum	S
<i>Corymbia gummifera</i>	Red Bloodwood	S
<i>Corymbia intermedia</i>	Pink Bloodwood	
<i>Corymbia tessellaris</i>	Moreton Bay Ash	
<i>Eucalyptus acmenoides</i>	White Mahogany	S
<i>Eucalyptus cloeziana</i>	Gympie Messmate	
<i>Eucalyptus crebra</i>	Narrow-leaved ironbark	
<i>Eucalyptus grandis</i>	Flooded Gum	S
<i>Eucalyptus microcorys</i>	Tallow wood	P*
<i>Eucalyptus pilularis</i>	Blackbutt	
<i>Eucalyptus propinqua</i>	Grey Gum	S
<i>Eucalyptus racemosa</i>	Scribbly Gum	S
<i>Eucalyptus resinifera</i>	Red Mahogany (Red Stringybark)	S
<i>Eucalyptus robusta</i>	Swamp Mahogany	P*
<i>Eucalyptus seeana</i>	Narrow Leaved Red Gum	
<i>Eucalyptus siderophloia</i>	Grey Ironbark	S

Botanical Name	Common Name	
<i>Eucalyptus tereticornis</i>	Queensland Blue Gum (Forest Red Gum)	P*
<i>Eucalyptus umbra</i>	Shade Mahogany	
<i>Lophostemon confertus</i>	Brush Box	
<i>Lophostemon suaveolens</i>	Swamp Box	
<i>Melaleuca quinquenervia</i>	Swamp Paperbark	

11. Design Guidelines for Development

11.1 Successful landscape design can achieve a favourable setting for buildings and enhance the environment and ambience for both residents and neighbourhoods.

11.2 Landscape design should take into account existing site conditions including:

- a) Existing vegetation,
- b) Aspect,
- c) Soil type and conditions,
- d) Pedestrian and vehicular circulation / access,
- e) Communal and private open spaces,
- f) Shade and sunlight, and
- g) Utility areas.

11.3 Developers and their design teams should also look beyond the boundaries of the site and consider external influences such as:

- a) Character of the surrounding neighbourhood,
- b) Existing vegetation,
- c) Desirable and undesirable views,
- d) Outlooks from neighbouring locations,
- e) Noise sources such as busy roads, and
- f) Connectivity within the locality.

11.4 Obviously different types of landscape treatments are required for different types of development that occur throughout the Shire (eg housing, commercial, industrial, roads and recreation). The Landscaping Code with *The Noosa Plan 2005* includes various specific outcomes and probable solutions in relation to landscape treatments for the various types of development. Other aspects to consider in landscape design are outlined below.

Other Aspects to Consider in Landscape Design

12. Entrances to Town/Communities

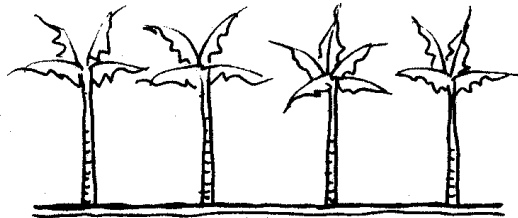
- 12.1 As the first impression of a town is gained from its approaches, landscape treatment of these areas is vital.
- 12.2 Mounding and mass plantings of large-growing trees within the road reserve signals entry to a new community, as well as screening unsightly land uses which often occur in the outskirts of town. Vegetation types should be based on the species occurring naturally in the particular area in order to differentiate communities. However some non-local species have historical significance to particular towns and consideration may be given to the inclusion of these species in plant selections.

13. Palms

- 13.1 Within Noosa Shire palms generally occur in natural settings in gullies and along creek lines. Where palms do occur naturally, they are generally in groups or clumps with other native species.
- 13.2 Consequently, the use of palms as major elements in landscaping schemes is not encouraged.
- 13.3 Canopy trees with narrow trunks and vines supported on fences or screens are more appropriate than palms in narrow gardens.

Figure 13-1 Palms

NOT RECOMMENDED



RECOMMENDED



13.4 Where palms are used, for example around pool areas or a water feature within a development, they should be planted in clumps or groups with other native species, listed in this policy. Sentinel planting of palms is inappropriate (ie. individual palms standing guard to either side of a building/structure).

13.5 The use of palms in side or rear setback areas is also inappropriate, as they do not provide sufficient foliage to screen and soften buildings.

14. Understorey

14.1 Creative use of ground covers and understorey plants is important to achieve an overall landscaped effect. The use of native grasses for both gardens and open space areas is encouraged particularly for developments in or adjoining remnant bushland.

14.2 Mulched planted areas are often a better landscape solution than turfed open areas - refer to Figure 14-1.

14.3 Where areas are to be grassed, native grasses are desirable due to their resistance to drought, pests and disease, their low maintenance, their significantly lower nutrient and water requirements, and their distinctive Australian attributes of texture, colour and form, compared with the artificial "high nutrient" greenness of turf grasses.

Figure 14-1 Low Plants and Grasses in a Mulched Area



15. Wet Areas

15.1 These areas include irrigation areas for domestic sewerage treatment plants, areas downstream of septic trenches, overland flow paths, creek banks and damp spots in general.

15.2 The use of species whose root systems can tolerate damp conditions is essential. Use of these species will also aid in uptake of excess water and nutrients.

15.3 Planting in wet areas assists with the prevention of erosion. Sections 5 - 8 identify species suitable for planting in wet areas.

Figure 15-1 Native grasses used to stabilise creek bank



16. Planting To Restore Habitat

16.1 In the past, large areas of formal habitat have been destroyed to make way for farming and development in Noosa. In order to protect biodiversity it is important that revegetation and landscaping incorporate native species that are important either as food or habitat for local faunal species.

16.2 There are a number of species that should not be planted due to their undesirable characteristics. Such characteristics include:

- a) Invasive growth;
- b) Potential to become bushland weeds by production of large quantities of seeds or edible fruits which are disseminated by birds and bats, ability to grow by vegetative reproduction, absence of natural predators;
- c) Environmental impact on native species;
- d) Maintenance difficulty;
- e) Displacement of natural landscape character; and
- f) Poisonous/hazardous to native fauna.

16.3 These species are listed in section 9 and are not to be used in a landscaping project that requires approval. Their use is also discouraged in schemes that do not require Council approval. Under no circumstances should garden waste of these species be dumped anywhere but a Council tip. Species such as Singapore Daisy are having a major impact on the integrity of bushland areas adjacent to urban development.

16.4 Planting and weed removal may be required to restore habitat where development has encroached upon remnant native bushland, commonly located along watercourses. Often escaped garden plants, some of which can dominate the native vegetation, invade the bushland, particularly its edges. Dumping of garden waste in adjacent bushland also causes degradation of the natural vegetation and all such waste should be disposed of thoughtfully.

17. Planting Size

17.1 The selected planting size will vary depending upon the nature of the development, availability of plant species, the type of plant and any specific conditions contained within a development approval. It is recognised that some plant species grow better from smaller containers for example Eucalypts and Brush box grow best from a 200mm pot. In each case, root systems are to be sturdily established in container to ensure expected plant size is congruous with size of pot. As a general guide the following minimum pot sizes apply:

17.2 Regardless of pot size, it is essential that plants have not become root bound.

Type of Plant	Minimum Pot Size
Street and feature trees	45 litre (75 litre for prominent areas)
Trees generally	25 litre
Tall, slow growing or feature shrubs	200mm
Shrubs generally	150mm
Ground covers, climbers & tufted plants	140mm

18. Layout - Plant Density & Grouping

18.1 The plant density will vary depending on the type of landscape character being created for example rainforest areas have a much higher density of trees and understorey than an open woodland setting.

18.2 Obviously a denser rate of planting is required when attempting to create visual buffers or windbreaks. This can be more successfully achieved by layering of planting from low at the edges towards taller planting at the centre. A similar method can be employed in softening of fence lines or walls

18.3 Planting designs should be based on informal layouts of tree groupings or clusters with understorey layers of shrubs and ground covers at an appropriate density with the entire planting area covered with a layer of mulch.

18.4 Apart from the aesthetics of these groupings, plants thrive in groups and in mulched areas, rather than in lawn. The grouping and mulching provides protection for plants, avoids damage (from builders and whipper-snipers), conserves water and is easier to maintain.

Figure 18-1 Group Planting



18.5 As a general guide the following separation between plants would be appropriate:

- a) Trees 5m apart
- b) Larger shrubs 2m apart
- c) Groundcovers 0.5 - 1.0m apart

18.6 To create a visual buffer the following separations between plants may be more appropriate:

- a) Trees 2m apart
- b) Larger shrubs 1m apart
- c) Groundcovers 0.5 - 1m apart

19. Structures/Materials

19.1 Creative landscape works can effectively combine structures with planting. The use of timber slatted screens, pergolas, planters, sleeper walls, pervious paving, rockwork etc in combination with planting is encouraged.

19.2 Concrete retaining structures such as crib block walls are generally not desirable, as the materials do not integrate as well with natural vegetation as timber and local stone. Further, it can take considerable time to soften the look of concrete walls.

19.3 Utilisation of 'bio-engineering' techniques in preference to more traditional engineering forms is also encouraged (eg vegetated swales to drainage lines rather than concrete-lined drains).

Figure 19-1 Retaining Walls

NOT RECOMMENDED



RECOMMENDED



- 19.4 Tree grates provide for water and natural air movement however are not to be used as a drain.

Figure 19-2 Tree Grates Provide for Water and Natural Air Movement



20. Design for Low Maintenance

- 20.1 Landscaping schemes should be designed with consideration to maintenance requirements. Landscaping with simple maintenance requirements will achieve a better long-term result. Careful preparation of garden areas prior to planting is also essential for successful growth of plants. Refer to section 20.
- 20.2 Local species are better suited to the local environment and therefore have lower maintenance requirements. In addition, extensive use of mulched areas provides a better growing environment for plants, suppresses weeds and retains water. Re-mulching at regular intervals, particularly in high use areas, will be a necessary component of any on-going maintenance programs.
- 20.3 In some instances landscaping may become Council's responsibility to maintain (eg. parks).
- 20.4 Landscaping works with high maintenance requirements in such areas will not be accepted.

Figure 20-1 Hedges are not desirable as they require high maintenance and do not form part of Noosa Shire's natural landscape



21. Services – Waste Bins

- 21.1 In accordance with the Environmental Protection (Waste Management) Regulation 2000 and Policy 2000 waste bins are to be provided for particular developments.
- 21.2 Waste bin storage areas and bin wash down areas are to be effectively screened from public view using creative landscaping techniques - refer to section 19.

On-site landscaping is not to interfere with pedestrian and vehicular access to waste bins.

22. Planting in Vicinity of Sewers and Manholes

- 22.1 Tree roots can infiltrate household drains and sewer mains causing blockages and damage to pipes. **Nothing** should be planted within 2 metres of a sewer manhole so that access to the manhole is not impeded. The following species are best kept well away from underground pipes, sewer manholes, and water meters:

- Gum trees (particularly those species that grow into large trees)
- Fig trees
- Rubber trees
- Lilly Pilly trees

- Umbrella trees (an environmental weed in this area)

22.2 List of suitable native plants for planting near sewers and manholes (examples only)

Species name	Variety	Growth habit
<i>Callistemon</i>	Wilderness White	weeping shrub 3m x 2m
<i>Callistemon</i>	Wildfire	bushy, weeping shrub 4.5m x 3m
<i>Callistemon</i>	Taree Pink	3m x 2m
<i>Callistemon</i>	Little John	dwarf, compact shrub 1.5m x 1.5m
<i>Callistemon</i>	Candy Pink	2.5m x 2m
<i>Callistemon</i>	Captain Cook	2m x 1.5m
<i>Callistemon</i>	Eureka	4m x 1.5m
<i>Callistemon</i>	Firebrand	compact shrub with arching branches 2m x 1.5m
<i>Grevillea</i>	Coastal Glow, Elegance, Firesprite, Kay Williams, Misty Pink & Strawberry Blonde	3m x 2m
<i>Grevillea</i>	Coconut Ice, Bon Accord, Golden Lyre, Ned Kelly, Orange Marmalade, Robyn Gordon, Splendor & Superb	2m x 1.5m
<i>Grevillea</i>	Little Miss Muffet, Scarlet Sprite	1.5m x 1m
<i>Grevillea</i>	Honey Gem, Majestic, Moonlight, Pink Surprise, Sandra Gordon & Sylvia	4m x 2m
<i>Leptospermum</i>	Brachyandrum	dense weeping medium shrub 3m x 1.5m
<i>Leptospermum</i>	Cardwell	bushy weeping shrub 2m x 1.5m
<i>Leptospermum</i>	Pacific Beauty	1m x 1.5
<i>Leptospermum petersonii</i>	Lemon scented Tea Tree	4m x 3m
<i>Leptospermum</i>	Pink Cascade	compact shrub 80cm x 1.5m
<i>Lomandra hystrix</i>		tufted, weeping grass plant 1m x 50cm
<i>Melaleuca</i>	Claret Tops	compact shrub 1.5m x 1m
<i>Melaleuca</i>	Nodosa	compact shrub 3m x 1.5m
<i>Melaleuca</i>	Sea Foam	bushy shrub 2m x 1m
<i>Melaleuca</i>	Snowflake	compact shrub 1.5m x 1m
<i>Melaleuca</i>	Thymifolia	spreading shrub 75cm x 1.5m
<i>Pultenea villosa</i>		weeping shrub 1.5m x 2m
<i>Westringia</i>	Fruticosa	bushy shrub 2m x 1.5m
<i>Westringia</i>	Wynyabbie Gem	bushy shrub 2m x 1.5m
<i>Xanthostemon</i>	Fairhill Gold	compact shrub 3m x 2.5m
<i>Acronychia imperforata</i>	Fraser Island Apple	bushy shrub 3m x 1.5m
<i>Alectryon coriaceus</i>	Beach Bird's Eye	bushy shrub 3m x 2m
<i>Banksia ericifolia</i>	Heath Banksia	large bushy shrub 4m x 2m
<i>Banksia spinulosa</i>	Hairpin Banksia	medium upright shrub 2m x 1.5m

<i>Baeckea virgata</i>	Twiggy Baeckea	hardy, compact shrub 3m x 2m
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Planting Techniques

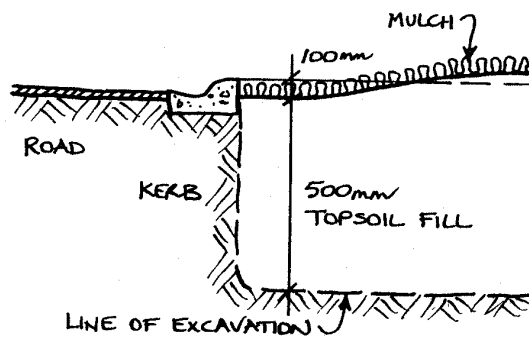
23. Preparation of Garden Beds For Public Land Including Road Reserves and Parks

23.1 Careful preparation of garden areas prior to planting is essential to successful growth of plants, particularly where planting areas are adjacent to road or building construction works.

23.2 The following points should be observed:

- a) Soil used is to comply with the Australian Standard (AS 4410) - Soil for Landscaping and Gardens;
- b) Soil imported to garden beds should have similar soil structure to that existing in the area;
- c) Remove all weeds, debris, rubbish, grass, etc. from areas to be planted;
- d) In conjunction with roadwork, remove all bitumen and road base from areas to be planted to a depth of 600mm from top of kerb. Refer to [Figure 23 1](#)~~Figure 23 1~~~~Figure 23 1~~~~Figure 23 1~~~~Figure 23 1~~;

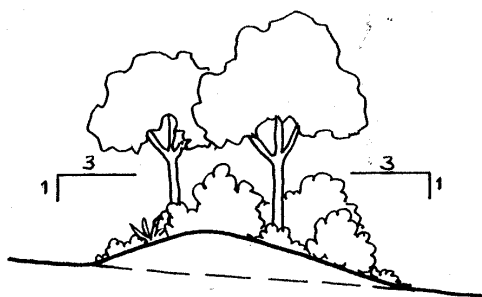
Figure 23 1
 Excavate to a depth of 600mm where garden beds are to be formed beside roadways and fill with topsoil to 100mm below top of kerb to allow for depth of mulch



- e) Add topsoil (preferably local soil) as required, form garden beds and spread any stockpiled topsoil to finished levels;
- f) Any imported topsoil to be free of large stones, weeds, sticks, rubbish, material toxic to plant growth, Nut Grass & Oxalis, and declared pests such as fire ants;
- g) Beds adjacent to hard areas to finish 100mm below paved level or top of kerb to allow for depth of mulch;
- h) Garden beds should be left for one month prior to planting to allow the treatment of weeds contained in the soil and to allow for regeneration of natural seeds;
- i) When constructing mounding or banks, highly compacted fill material in the top 600mm should be avoided as this can impede root penetration and the successful growth of plants; and
- j) Maintain maximum fall of 1:3 to ensure stability of mulch on slopes and allow for access for maintenance - refer to Figure 23-2.

Figure 23 2

Form mounds and banks to maximum slope of 1:3 for stability and ease of maintenance



24. Planting Procedures

24.1 Correct planting procedures ensure greater success in establishment of landscapes. The following points should be complied with:

- a) Do not plant in extreme hot, cold or atmospheric disturbances;
- b) Dig separate holes for each plant, 100mm wider & deeper than container. Loosen soil at base of holes a further 150mm depth. Fill holes with water & allow water to drain away;
- c) Position plant in centre of hole, set & backfill, retaining original soil level of container. Only tease out roots if root ball is compacted or pot-bound;

Figure 23-1 Planting in level areas

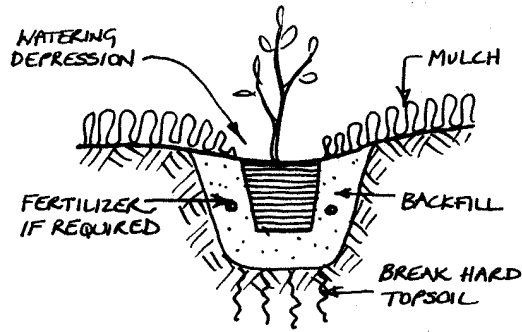
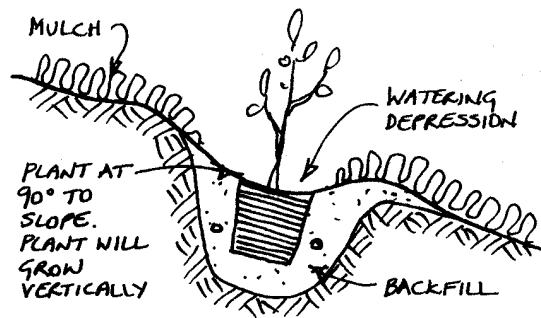


Figure 23-2 Planting on slopes



- d) Incorporate suitable fertiliser and/or water crystals, if required, at time of backfilling - refer to section 25;
- e) Gently & firmly tap down around root ball, leaving a shallow watering depression. Water immediately and thoroughly using minimum 5 litres per plant;
- f) Mulch after planting (and installation of irrigation if applicable) - refer to section 24 Mulch types;
- g) Where mulch is already in place, it should be raked back from well around the area and the hole dug. Excess soil should be removed or spread prior to replacing mulch to prevent mixing of the two mediums; and
- h) Plants that are severely root bound are not to be used.

25. Mulch types

- 25.1 Mulching of planted areas conserves water by retaining soil moisture, maintains even soil temperature, reduces erosion, compaction and root disturbance, and suppresses weed growth.
- 25.2 Mulch should be spread over entire planted area at a depth of 75 to 100mm and be kept 50mm from stems of plants to avoid collar rot.
- 25.3 The use of polythene film under mulch is not recommended as it prevents air and moisture from penetrating the soil and kills soil organisms. Use thick layers of wetted newspaper or cardboard under mulch in weed infested areas.
- 25.4 Ground covers provide living mulch once established.

Suggested Mulch Types:

Steep Areas or Embankments	Hoop Pine mulch
High Profile Areas	Forest Blend or Bush mulch
Road Islands and Gardens	Forest Blend or Bush mulch

26. Soil Nutrients and Fertilising

- 26.1 Soils in the Noosa Shire are generally acid, low in nutrients and well suited to the growth of native plants. Care is needed when using any fertilisers. Adverse effects on water quality can occur as unused nutrients penetrate waterways via runoff and by leaching into the water table. Phosphorous is especially damaging to water quality.
- 26.2 Fertilisers can be damaging to some plants. For instance, fertilisers with phosphorus content should be avoided for species in the Proteaceae family, which includes, Banksia, Grevillea and Hakea.



- 26.3 Acacia species produce nitrogen-fixing nodules and nitrogenous fertilisers can be harmful for these plants. These affects can be aggravated by sandy soils.
- 26.4 Avoid "Complete Fertilisers" on native plantings. Incorrectly applied fast-acting, usually inorganic, fertilisers can "burn" roots. Increased soil nitrogen can stimulate growth of pathogenic (destructive) soil fungi. High levels of potassium can interfere with a plant's capacity to absorb magnesium.

26.5 Use of fertilisers on gardens in or adjoining bushlands needs care. Native plant communities are adapted to low soil nutrient levels and increasing these can lead to heavy weed infestation.

26.6 The most beneficial way to improve nutrient status is to de-compact and aerate soils. Plants cannot absorb fertiliser if the soil is compacted. If fertilisers are deemed necessary, use specially prepared mixes for native plants.

26.7 Fertiliser tablets should only be added to the base of the tree or shrub.

27. Water Crystals

27.1 Water Crystals should be placed in soil that is already wet.

27.2 Sandy Soils - Mix 10 grams or one teaspoon of water crystals to 10 litres of water or 1 bucket of soil mixed well and added as back fill around the plant. This is for a 200mm pot. Note: Sandy Soils can also be improved by mixing peat through the soil and watering well prior to planting.

27.3 Clay Soils - Heavy clay soils would not require water crystals.

28. Watering Systems

28.1 In general Council does not encourage the use of water systems, but rather prefers native plants that grow naturally in the area and therefore do not require the use of a water system. However where the design requires a water system the intent of design for the watering system shall be to provide a functioning sprinkler and/or drip irrigation system that will deliver water for optimum plant growth. Advice on irrigation design can be sought from a specialist supplier/installer.

28.2 In areas connected to reticulated water supply watering systems should only be added to gardens where meters are installed. (Note: Plumbing approval is required for a system that connects to any reticulated water service including non-potable water supplies).

29. Watering Plants

29.1 Thoroughly water immediately after planting with minimum 5 litres per plant to remove air, settle soil around roots and to activate water crystals. Deep watering encourages strong deep root growth and is preferred to more regular shallow watering.

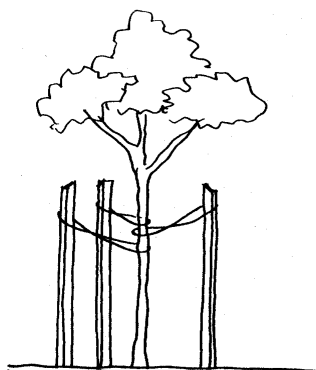
29.2 Watering should be carried out on a daily basis for three days after planting followed by twice weekly for two weeks and then as required according to rainfall, weather conditions and nature of the soil.

30. Staking of Trees

30.1 Staking is necessary only if plants are exposed to strong winds or subject to damage from adjacent works. Staking can cause plants to rely on support other than their own stems, resulting in a weaker plant.

30.2 The preferred method is to place three stakes around the plant beyond the root ball and secure loosely with plastic ring-lock or hessian ties so that the plants move freely within the enclosure.

Figure 29-1 Preferred method of staking trees



30.3 Large transplanted trees require guying and staking until the roots are well established in the natural ground. It is suggested that a specialist carry out the staking in these instances.

31. Establishment

31.1 Following completion of landscape works, on-going maintenance is required to ensure successful establishment of planting. The following points should be complied with:

- a) Any inferior or damaged plant material should be replaced;
- b) All necessary weeding, watering and pruning should be undertaken to ensure healthy growth. Continue pruning as necessary for maintenance of sight lines and shaping of plants;
- c) Mulch should be kept in place and be replenished as necessary;
- d) Irrigation systems should be maintained in operational order; and
- e) All debris should be disposed of in a thoughtful manner.

Council Works

32. Implementation of this Policy

- 32.1 The development and maintenance of public spaces in accordance with this policy is important due to their extensive areas, high visibility and contribution to local character values.
- 32.2 The implementation of this policy relies upon Council undertaking works within parks, road reserves and other public places to offer some direction to private development and to ensure integration of such works with the natural environment and private development sites.
- 32.3 Council will utilise these guidelines in designing planting schemes for such areas. It will also ensure advanced and semi-advanced trees are established in street planting programmes.

33. Plant Species Selection

- 33.1 Species for Council works are to be consistent with the plant species lists in this policy including for:
- a) footpaths adjacent to commercial development; and
 - b) parks used for active pursuits.
- 33.2 There may be some variation to the plant species referred to in this policy however such variations shall be minor to the overall scheme and should have a relationship to the existing or preferred character of the area.

34. Plant Ordering

- 34.1 When ordering plant species for Council landscaping projects Council staff will ensure that:
- a) Plants are ordered well in advance to ensure availability of required numbers and sizes;
 - b) Plants are well-formed, hardened-off stock, well-branched & foliated, true to type;
 - c) The root system is sturdily established in container with no large roots extending and not root bound;
 - d) Form & habit are normal for species scheduled & pruning scars to be clean cut;
 - e) Leaves are of normal shape colour & texture with minimal physical damage;
 - f) Plants are free of living insect pests and free from any disease or physical injury;
 - g) Containers are free of weeds; and
 - h) All plants are delivered to site clearly & accurately labelled. Containers to be maintained on site until planted.

35. Priorities

- 35.1 Works in publicly controlled areas that require remedial landscaping and the planting of road reserve areas will receive priority. Remedial works will take the form of upgrading existing works in accordance with these guidelines. The reinforcement of existing plantings with species that reflect the natural character will also be carried out.
- 35.2 The road reserve areas of the highest priority comprise the major tourist routes and approaches to townships and entrances to the Shire.
- 35.3 When undertaking work on road reserves Council will:
- a) Retain and build upon existing significant road reserve vegetation on approaches to townships and entrances to the Shire;
 - b) Limit road widening / clearing of vegetation on main entrance roads;
 - c) Limit new access roads from properties;
 - d) Use species that present appropriate character; and
 - e) Retain and reinforce existing vegetation along road reserves to ensure that rural roads present a tree canopy cover.

POLICY HISTORY:

PSP03 was adopted on 3 November 2005 and took effect 3 February 2006

It is based on a superseded planning scheme policy dating back to 1991. Minor amendments were made on 1 November 2007 to Section 5 and Tables 6.1, 7.1 and 9.1.