

Native landscaping

Terrain has produced a landscaping guideline for Mission Beach to encourage planting of local native species in parks, gardens, streetscapes, new developments, etc. The guideline identifies suitable trees, shrubs, palms, cycads, gingers, cordylines, tree ferns, ferns, lilies, orchids, vines, sedges, etc. Mission Beach is a natural greenhouse with incredible native plant diversity to choose from, particularly luxuriant rainforest species. Native landscaping will help maintain and restore the natural unspoilt look and feel of Mission Beach. Wildlife will benefit too. Standard landscaping safety procedures always apply, e.g. planting trees adjacent to structures isn't recommended.



Native lasiandra:
Melastoma malabathricum



Box fruit: *Barringtonia asiatica*



Crinum lily:
Crinum pedunculatum



Bingil Bay palm/Arenga palm:
Arenga australasica



Coral tree:
Erythrina variegata



Banana bush:
Tabernaemontana orientalis



Flame tree: *Brachychiton acerifolius*



Native hibiscus/Cottonwood: *Hibiscus tiliaceus*



Zamia palm: *Lepidozamia hopei*



October Glory: *Faradaya splendida*



MISSION BEACH RAINFOREST LANDSCAPING GUIDELINE

April 2011

Introduction

Mission Beach is a natural greenhouse and provides an opportunity to showcase luxuriant world class landscaping. This guideline is about plant species that are native to Mission Beach (indigenous) and suitable for landscaping at Mission Beach. The listed species have generally been selected for their attractive form, foliage, flowers, fragrance and/or fruits. It is not an exhaustive list but focuses on plants that are characteristic of Mission Beach, especially coastal rainforest species. Subject to site constraints, the listed species are generally suitable for various landscaping environments, e.g. streetscapes, resorts, commercial, residential, subdivisions, parks, community facilities, and home gardens. Certain species are best suited to certain sites, e.g. trees are not recommended adjacent to structures. The intention is to make it easier for people to use indigenous species in landscaping and thereby help maintain and enhance the outstanding natural landscape of Mission Beach. The guideline is not adequate for ecological restoration or revegetation projects.

Rationale

There are many reasons for choosing indigenous species for landscaping at Mission Beach:

- Mission Beach has incredible native plant diversity, providing a huge palate to choose from, particularly luxuriant tropical specimens.
- Mission Beach is a very significant environmental area where indigenous landscaping is appropriate.
- Indigenous species are suited to local conditions and therefore are likely to prosper with little maintenance.
- Indigenous species provide habitat and stepping stones for native fauna, e.g. Ulysses butterfly.
- Indigenous species won't become environmental weeds.
- Indigenous landscaping will provide a point of difference because most other places have generic tropical or ad-hoc landscaping.
- Mission Beach offers a rare opportunity to present an authentic tropical coastal rainforest World Heritage landscape that few other locations could achieve.
- Indigenous landscaping will help maintain and restore the natural unspoilt look and feel of Mission Beach.
- Indigenous species provide opportunities for interpretation/story-telling; e.g. Djiru names, timber and medicinal uses, wildlife associations, etc.
- Nearly all of the recommended species are rainforest species (which is not surprising given the predominance of rainforest at Mission Beach). Rainforest species are well known for their general suitability for landscaping.

General recommendations

- In all cases, standard landscaping safety procedures should be complied with.
- Existing native vegetation on site should be retained, not replaced with guideline species. Indigenous landscaping will prosper where natural landforms, drainage and soils are retained.

- Using plants grown from seeds/cuttings collected in the Mission Beach area (local provenance) will help retain the ecological integrity of Mission Beach. Local provenance plants are available from local nurseries including Council's Revegetation Unit and C4.
- Certain native species are protected by law and a permit is required to collect or grow them. Plant propagules should not be collected without the landowner's permission. A permit is required to collect from protected places.
- Landscaping including big indigenous trees (not just shrubs & groundcovers) will help maintain the special "villages in coastal rainforest" scale of Mission Beach.
- The inclusion of a selection of indigenous trees, shrubs, palms, cycads, gingers, cordylines, ferns, lilies, orchids, vines, sedges etc in landscaping on a site will capture the tropical coastal rainforest richness of Mission Beach.
- Planting a diversity of species in clumps and allowing natural growth forms (rather than mass plantings of 1 or 2 species in standard arrangements) will enhance the special coastal rainforest character of Mission Beach. However some species do sometimes naturally occur in groves (e.g. Fan palm) or as companions (e.g. Beach pandan/Bingil Bay palm/Solitaire palm and Native dracaena/Scrub breadfruit /Solitaire palm) to striking effect. In any case, many of the listed species offer great opportunities for formal and/or creative landscaping, e.g. hedges, pot plants, hanging baskets, bowers.
- Cassowary attracting species should not be planted adjacent to roads.

Special locations

Most of the listed species occur throughout the various localities of Mission Beach. However some species are restricted to, or perform particularly well in, specific parts of Mission Beach due to local environmental variations, e.g. soils and drainage. Working with these natural differences will help maintain and enhance the special landscapes of particular localities within Mission Beach. For example, the Pink flowering guest tree only occurs on volcanic soils in the Clump Point/North Mission Beach area. This is the only known occurrence of this spectacular species anywhere on the Wet Tropics coast. Grey paperbark is an outstanding feature of Kennedy Esplanade at South Mission Beach, similar to Weeping paperbark on Palm Cove esplanade. These special landscapes could be diminished with inappropriate landscaping. Species for special locations are noted in the tables.

Professional advice

Professional advice is recommended.

A landscaping professional can advise on the following:

- appropriate species and layout for your site
- species requiring government permits, e.g. Zamia palm
- species needing particular management, e.g. figs may need root barriers
- species requiring particular environmental conditions to prosper, e.g. King fern requires a moist protected location
- safety considerations, e.g. species with prickly leaves, large fruit, or toxic properties.

***Key to "Notes" column in the following table**

- 1 Suitable for beachfronts
- 2 Volcanic soils at Clump Point/North Mission Beach
- 3 South Mission Beach sand dunes

TREES

N.B. Trees are not recommended adjacent to structures.

Botanical name	Common name	Notes*
<i>Alstonia scholaris</i>	Milky pine	
<i>Anthocarapa nitidula</i>	Incense cedar	
<i>Antidesma bunius</i>	Herbert River cherry	
<i>Archidendron lucyi</i>	Scarlet bean	
<i>Backhousia bancroftii</i>	Johnstone River hardwood	
<i>Barringtonia asiatica</i>	Box fruit	1
<i>Barringtonia calyptrata</i>	Mango pine	
<i>Beilschmiedia obtusifolia</i>	Blush walnut	
<i>Brachychiton acerifolius</i>	Flame tree	
<i>Brombya platynema</i>	Brombya	
<i>Callophyllum inophyllum</i>	Beauty leaf	1
<i>Callophyllum sil</i>	Blush touriga	
<i>Cananga odorata</i>	Perfume tree	
<i>Carallia brachiata</i>	Corkwood	
<i>Cardwellia sublimis</i>	Northern silky oak	
<i>Carnarvonia araliifolia</i>	Caledonian silky oak/Red oak	
<i>Castanospora alphanthii</i>	Brown tamarind	
<i>Casuarina equisetifolia</i>	Beach sheoak	1
<i>Chionanthus ramiflora</i>	Native olive	
<i>Corymbia tessellaris</i>	Carbeen	1
<i>Cryptocarya mackinnoniana</i>	Rusty laurel	
<i>Deplanchea tetraphylla</i>	Golden bouquet tree	
<i>Dillenia alata</i>	Golden guinea tree	1
<i>Elaeocarpus angustifolius</i>	Blue quandong	
<i>Erythrina variegata</i>	Coral tree	1
<i>Ficus drupacea</i>	Drupe fig	1
<i>Ficus variegata</i>	Variegated fig	
<i>Flindersia pimenteliana</i>	Silkwood	
<i>Gmelinia dalrympleana</i>	Grey teak	
<i>Grevillea baileyana</i>	Findlay's silky oak	
<i>Helicia nortoniana</i>	Norton's oak	
<i>Heritiera littoralis</i>	Looking glass mangrove	1
<i>Hernandia nymphaeifolia</i>	Sea hearse	1
<i>Hibiscus tiliaceus</i>	Native hibiscus/Cottonwood	1
<i>Intsia bijuga</i>	Johnstone River teak/Kwila	
<i>Kleinhovia hospita</i>	Pink flowering guest tree	2
<i>Melaleuca dealbata</i>	Grey paperbark	3
<i>Melaleuca leucadendra</i>	Weeping paperbark	
<i>Melicope elleryana</i>	Pink euodia/Ulysses tree	
<i>Millettia pinnata</i>	Pongamia	1
<i>Myristica insipida</i>	Native nutmeg	
<i>Neolitsea dealbata</i>	White bolly gum	
<i>Pandanus tectorius</i>	Beach pandan	1
<i>Pisonia umbellifera</i>	Bird lime tree	1
<i>Planchonella obovata</i>	Yellow boxwood	1
<i>Podocarpus grayae</i>	Brown pine	
<i>Polyalthia nitidissima</i>	Canary beech	

<i>Polyscias elegans</i>	Celerywood	
<i>Schefflera actinophylla</i>	Umbrella tree	
<i>Symplocos cochinchinensis</i>	White hazelwood	
<i>Syzygium alliligineum</i>	Mission Beach satinash	
<i>Syzygium cormiflorum</i>	Bumpy satinash	
<i>Syzygium forte</i>	White apple	1
<i>Syzygium hemilamprum</i>	Blush satinash	
<i>Terminalia arenicola</i>	Beach almond	1
<i>Terminalia catappa</i>	Sea almond	1
<i>Terminalia sericocarpa</i>	Damson	
<i>Xanthostemon chrysanthus</i>	Golden penda	

SMALL TREES/SHRUBS

Botanical name	Common name	Notes
<i>Aglaia brownii</i>	Brown's aglaia	
<i>Atractocarpus fitzalanii</i>	Brown gardenia	
<i>Atractocarpus hirta</i>	Hairy gardenia	
<i>Atractocarpa sessilis</i>	False gardenia	
<i>Bubbia semecarpoides</i>	Australian pepper tree	
<i>Capparis lucida</i>	Coast caper	1
<i>Cassine melanocarpa</i>	Black olive plum	1
<i>Clerodendrum longiflorum</i>	Long flowered clerodendrum	
<i>Cryptocarya laevigata</i>	Glossy laurel	
<i>Cyclophyllum multiflorum</i>	Coast canthium	1
<i>Delarbrea michieana</i>	Blue nun	
<i>Drypetes deplanchei</i>	Yellow tulip	
<i>Davidsonia pruriens</i>	Davidson's plum	
<i>Eugenia reinwardtianna</i>	Beach cherry/Cedar Bay cherry	1
<i>Eupomatia barbata</i>	Small bolwarra	
<i>Eupomatia laurina</i>	Bolwarra	
<i>Ficus congesta</i>	Red leaf fig	
<i>Gomphandra australiana</i>	Buff beech	
<i>Guettarda speciosa</i>	Beach gardenia	1
<i>Harpullia frutescens</i>	Dwarf harpullia	
<i>Harpullia rhyticarpa</i>	Slender harpullia	
<i>Ixora timorensis</i>	Native ixora	
<i>Lasianthus kurzii</i>	Blue rubi	
<i>Leea indica</i>	Bandicoot berry	
<i>Lithomyrtus obtusa</i>	Cowley myrtle	1
<i>Macklinaya macrosciadea</i>	Blue umbrella	
<i>Melastoma malabathricum</i>	Native lasiandra	
<i>Melaleuca viridiflora</i>	Broad leaf paperbark	
<i>Melicope rubra</i>	Little evodia	
<i>Morinda citrifolia</i>	Cheese fruit	1
<i>Phaleria clerodendron</i>	Native daphne	
<i>Polyscias australiana</i>	Ivory basswood	
<i>Psychotria sp. Utchee Creek</i>	Big leaf psychotria	
<i>Rhodomyrtus trineura</i>	Native guava	
<i>Scaevola taccada</i>	Cardwell cabbage	1

<i>Syzygium wilsonii</i>	Powderpuff lily	
<i>Tabernaemontana orientalis</i>	Banana bush	
<i>Terminalia muelleri</i>	Mueller's damson	1
<i>Thespesia populnea</i>	Portia tree	1
<i>Vavaea amicornum</i>	Vavaea	1
<i>Wilkiea longipes</i>	Tetrasynandra	

PALMS, CYCADS, GINGERS, CORDYLINES, TREE FERNS, ETC

Botanical name	Common name	Notes
<i>Alpinia arctiflora</i>	Pleated ginger	
<i>Alpinia caerulea</i>	Native ginger	
<i>Alpinia modesta</i>	Narrow-leaf ginger	
<i>Amomum dallachyi</i>	Green ginger	
<i>Arenga australasica</i>	Bingil Bay palm/Arenga palm	1
<i>Archontophoenix alexandrae</i>	Alexandra palm	
<i>Bowenia spectabilis</i>	Zamia fern	
<i>Cordyline cannifolia</i>	Palm lily	
<i>Cordyline manners-suttoniae</i>	Giant palm lily	
<i>Cordyline murchisoniae</i>	a palm lily	
<i>Costus potierae</i>	Native crepe ginger	
<i>Cyathea rebecca</i>	Rebecca's tree fern	
<i>Cyathea cooperi</i>	Scaly tree fern	
<i>Hornstedtia scottiana</i>	Native cardamom	
<i>Hydriastele wendlandiana</i>	Hydriastele palm	
<i>Lepidozamia hopei</i>	Zamia palm	
<i>Licuala ramsayii</i>	Fan palm	
<i>Linospadix minor</i>	Minor walking stick palm	
<i>Musa banksii</i>	Native banana	
<i>Panadanus monticola</i>	Scrub breadfruit	
<i>Pleomele angustifolia</i>	Native dracaena	
<i>Ptychosperma elegans</i>	Solitaire palm	
<i>Tapeinochilus ananassae</i>	Backscratcher ginger	

FERNS, LILIES, ORCHIDS, VINES, SEDGES, ETC

Botanical name	Common name	Notes
<i>Alocasia brisbanensis</i>	Cunjevoi	
<i>Adenia heterophylla</i>	Lacewing vine	
<i>Adiantum hispidulum</i>	Rough maidenhair fern	
<i>Angiopteris evecta</i>	King fern	
<i>Aristolochia acuminata</i>	Native Dutchman's pipe	
<i>Asplenium nidus</i>	Birds nest fern	
<i>Blechnum cartilagineum</i>	Gristle fern	
<i>Corymborkis veratrifolia</i>	Ground orchid	
<i>Coveniella poecilophlebia</i>	a fern	
<i>Crinum pedunculatum</i>	Crinum lily	1
<i>Cymbidium madidum</i>	Buttercup orchid	
<i>Dendrobium canaliculatum</i>	Tea tree orchid	
<i>Dendrobium discolour</i>	Golden orchid	1

<i>Dendrobium smillieae</i>	Bottle brush orchid	
<i>Dianella atraxis</i>	Rainforest flax lily	
<i>Dianella bambusifolia</i>	Coastal flax lily	1
<i>Dianella caerulea</i>	Blue flax lily	
<i>Dischidia nummularia</i>	Button orchid	
<i>Dockrillia teretifolia</i>	Pencil orchid	
<i>Drynaria rigidula</i>	Basket fern	
<i>Epipremnum pinnatum</i>	Native monstera	
<i>Faradaya splendida</i>	October glory	
<i>Freycinetea excelsa</i>	Slender climbing pandan	
<i>Freycinetea scandens</i>	Climbing pandan	
<i>Gahnia aspera</i>	Gahnia	
<i>Helichrysum rupicola</i>	Yellow buttons	
<i>Hoya australis</i>	Hoya	
<i>Hypolytrum nemorum</i>	Dwarf pandan sedge	
<i>Jasminium elongatum</i>	Native jasmine	
<i>Melodorum leichhardtii</i>	Acid drop vine	
<i>Microsorium grossum</i>	Oak leaf fern	
<i>Molineria capitulata</i>	Weevil lily	
<i>Mucuna gigantea</i>	Burny bean	
<i>Ophioglossum pendulum</i>	Ribbon fern	
<i>Piper caninum</i>	Native pepper	
<i>Piper hederaceum</i>	Native pepper	
<i>Platycterium hillii</i>	Silver elkhorn	
<i>Platycterium superbum</i>	Staghorn	
<i>Polliia macrophylla</i>	Polliia	
<i>Pothos longipes</i>	Candle vine	
<i>Prophys amboinensis</i>	Cardwell lily	
<i>Pseuderanthemum variabile</i>	Love flower	
<i>Pycnarrhena novoguineensis</i>	Common milk vine	
<i>Pyrrosia longifolia</i>	Felt fern	
<i>Rhaphidophora australasica</i>	Native monstera	
<i>Schizaea dichotoma</i>	Fan fern	
<i>Selaginella longipinna</i>	Native selaginella	
<i>Tetrastigma nitens</i>	Native grape	
<i>Themeda triandra</i>	Kangaroo grass	2
<i>Vandasina retusa</i>	Coral pea	1

Further information

For further information, please contact Terrain NRM.

Phone 4043 8000, email admin@terrain.org.au or visit www.terrain.org.au/missionbeach.

(Some of the species are available from C4's nursery).