



## THE MARINA BUSHCARE ACTION PLAN

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**Produced By: Planning & Development Group - Review Date:22/07/2017**

### CONTACT INFORMATION

**Group Name:** The Marina Culburra Bushcare Group  
**Contact:** Les Parry  
**Address:** 149 The Marina, Culburra Beach  
**Tel:** 4447 4900  
**Reserve Name :** Lee St road reserve, 3 separate sites along Culburra Beach including (The Mall St, The Marina (from Nth Crescent Nth to the Bowery and Ocean St car park and beach access area)  
**Reserve No:** CCU276 & CCU226  
**Land Tenure:** SCC  
**Comm. Land Type:** Natural Area – Foreshore

### 1. BUSHCARE GROUP GOALS

**Improve the native biodiversity, dune stabilisation and aesthetic qualities of each site through continued weed removal and appropriate revegetation.**

**The Marina Culburra Bushcare Group is actively working on four different sites in Culburra (see map 1):**

- 1. The Marina**
- 2. Ocean Street**
- 3. Lee Street**
- 4. The Mall**

**2. SHOALHAVEN BUSHCARE GROUP ACTIVITIES TABLE (to be in conjunction with attached site map)**

**NOTE: Priority should be rated as H = High (within 12 months); M = Medium (1-3 years); L = Low**

GROUP ACTION (these should relate to your project description)	PRIORITY	METHOD	TIME
<p><b>1. The Marina</b></p> <p><b>Control of noxious species and highly invasive species esp. Coastal Morning Glory (<i>Ipomoea cairica</i>) in area of high infestation south of Mowbray Rd track.</b></p> <p><b>Control of environmental weeds (priority given to noxious species) in area of moderate weed infestation south of Mowbray Rd track.</b></p> <p><b>Maintenance of plantings.</b></p> <p><b>Ongoing weed maintenance.</b></p>	<p><b>H</b></p> <p><b>M</b></p> <p><b>L</b></p> <p><b>L</b></p>	<p><b>Hand weed Coastal Morning Glory and other species where possible. Scrape &amp; paint Green Cestrum</b></p> <p><b>Hand weed. Spray dense areas of weeds where appropriate.</b></p> <p><b>Periodic checking &amp; weeding of plants in guards. Removal of guards when established. Replacement of plants where necessary.</b></p> <p><b>Periodic sweeps- hand weeding</b></p>	<p><b>1-2year</b></p> <p><b>1-3year</b></p> <p><b>Ongoing -until plants est.</b></p> <p><b>Ongoing</b></p>

GROUP ACTION (these should relate to your project description)	PRIORITY	METHOD	TIME
<p><b>2. Ocean Street</b></p> <p><b>Control of weed grasses (Kikuyu &amp; Buffalo grass) in area adjacent to car park on Ocean Street site.</b></p> <p><b>Mulching and planting adjacent to car park on Ocean Street site.</b></p> <p><b>Control of highly invasive Climbing Groundsel (<i>Senecio angulatus</i>) at southern end of Ocean Street.</b></p> <p><b>Maintenance of plantings</b></p> <p><b>Ongoing weed maintenance</b></p>	<p><b>H</b></p> <p><b>H</b></p> <p><b>M</b></p> <p><b>L</b></p> <p><b>L</b></p>	<p><b>Hand remove bulk, then follow-up with glyphosate spray</b></p> <p><b>Spread mulch (council provided) by hand. Plant open areas with endemic stock.</b></p> <p><b>Hand remove where growing over native plants. Spot spray with glyphosate (1:100) on ground.</b></p> <p><b>Periodic checking &amp; weeding of plants in guards. Removal of guards when established. Replacement of plants where necessary.</b></p> <p><b>Periodic sweeps – hand weeding</b></p>	<p><b>6month</b></p> <p><b>1 year</b></p> <p><b>1-2year</b></p> <p><b>Ongoing -until plants est.</b></p> <p><b>Ongoing</b></p>

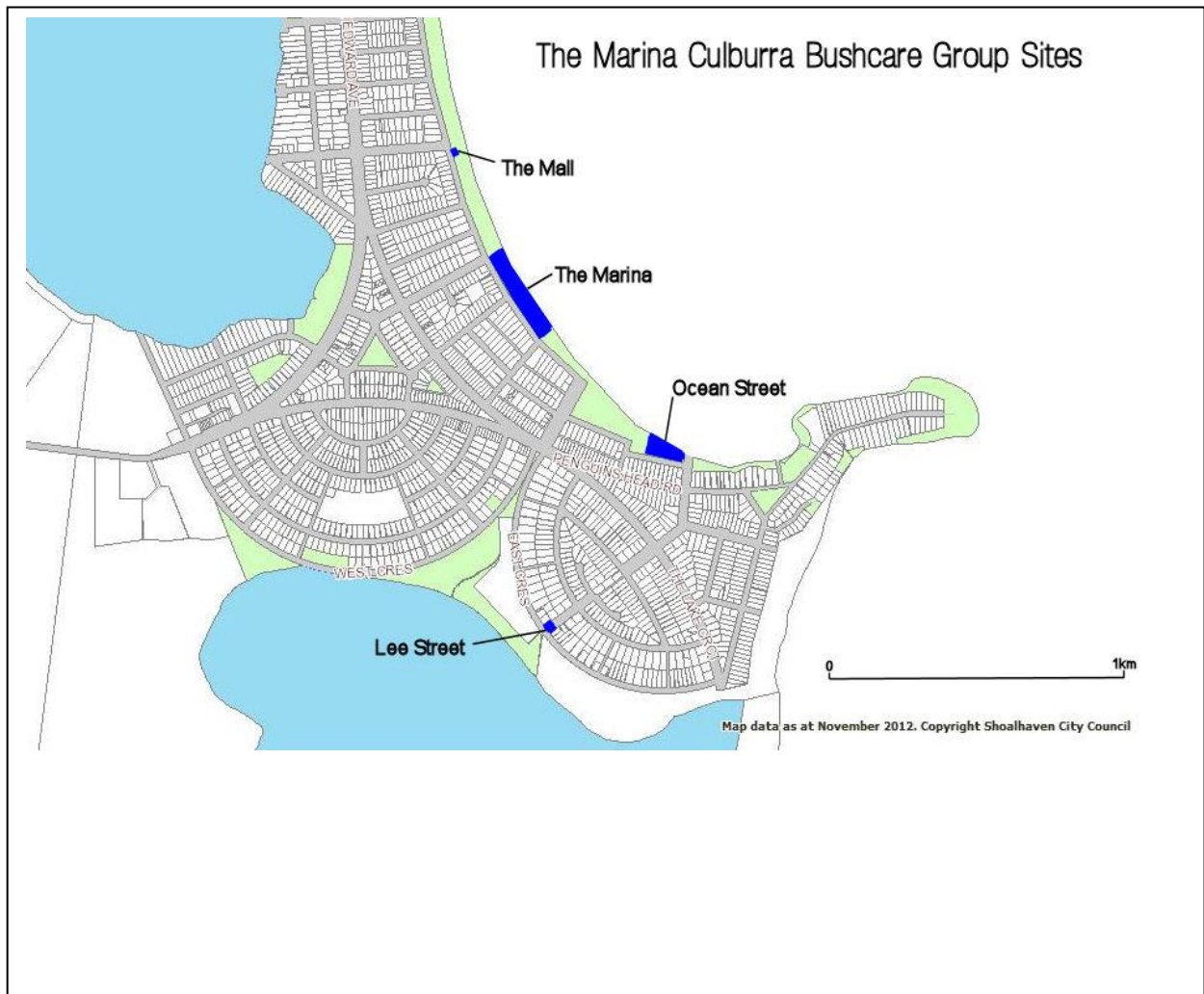
GROUP ACTION (these should relate to your project description)	PRIORITY	METHOD	TIME
<p><b>3. Lee Street</b></p> <p><b>Maintenance of plantings</b></p> <p><b>Ongoing weed maintenance</b></p>	<p><b>L</b></p> <p><b>L</b></p>	<p><b>Periodic checking &amp; weeding of plants in guards. Removal of guards when established. Replacement of plants where necessary.</b></p> <p><b>Periodic sweeps – hand weeding</b></p>	<p><b>Ongoing -until plants est.</b></p> <p><b>Ongoing</b></p>
<p><b>4. The Mall</b></p> <p><b>Maintenance of plantings</b></p> <p><i>Note: All revegetation undertaken as part of this Bushcare Plan on foreshore reserve will not impact on the current/existing views/vistas that currently exist and have not been created by the wilful destruction and/or damage to foreshore vegetation. The revegetation works will comply with all state and local government regulations, plans and polices that effect the zoning of the land.</i></p>	<p><b>L</b></p>	<p><b>Periodic checking &amp; weeding of plants in guards. Removal of guards when established. Replacement of plants where necessary.</b></p>	<p><b>Ongoing -until plants est.</b></p>

<b>GROUP ACTION (these should relate to your project description)</b>	<b>PRIORITY</b>	<b>METHOD</b>	<b>TIME</b>

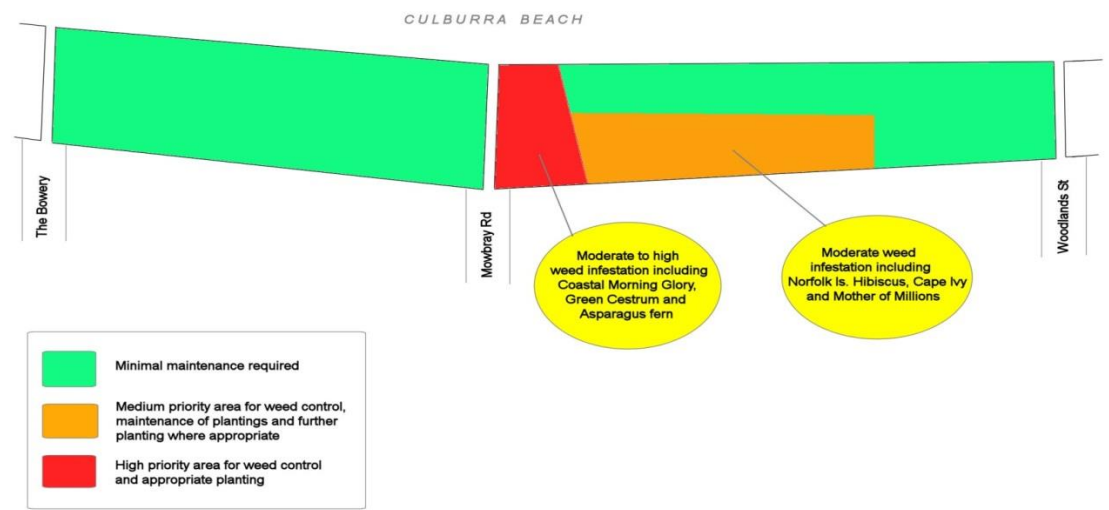
## 5. BUSHCARE GROUP ACTION PLAN MAP

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Map 1. Overview of The Marina Bushcare Sit



### Site 1. The Marina





**Site 1. The Marina (southern end) *photo J. Polosak***



**Site 2. Ocean Street**









**Site 3. Lee Street** *Photo J.Polosak*



**Site 4. The Mall**

## 6. BUSHCARE GROUP OH&S & EQUIPMENT REQUIREMENTS

Type of Activity	Yes	SWMS name included
Manual weed control (cut & paint, scrape and paint etc)	Yes	
Chemical control (spraying of herbicides)	Yes	
Planting	Yes	
Minor construction (walking track, fencing, outdoor furniture)		
Propagation & seed collection	Yes	
Education (school groups, field days etc)		
Other		

## 7. COUNCIL SUPPORT

- Technical advice and support
- Provision of PPE equipment
- Supply tools, herbicide and materials within the constraints of budget
- Administration support
- Assistance with grant application, administration and management.
- Graphic design and printing assistance
- Assistance with facilitation and negotiation with third parties

## 8. HAS A SITE HAZARD AND RISK ASSESSMENT BEEN COMPLETED FOR THE BUSHCARE SITE?

Yes      X      No     

## 9. LIST THE PERSONAL PROTECTION EQUIPMENT REQUIRED FOR VOLUNTEERS WHILST WORKING ON THE SITE

PPE Equipment Required	Date issued
First Aid Kit	2012
Gloves	2013
Sunscreen	2013
Insect repellent	2013

## 10. POSSIBLE FUTURE FUNDING

<b>Project</b>	<b>Funding source</b>
Assistance with landscape scale control of weeds such as Bitou Bush, Asparagus Fern and Lantana in the Culburra Beach catchment area	Various

## 11. PLAN WILL BE REVIEWED EVERY THREE YEARS

**Next review due:**

**22./07/2017**

## 12. PLEASE LIST OTHER LOCAL OR REGIONAL MANAGEMENT PLANS OR STRATEGIES THAT THIS PLAN RELATES TO

<b>Name of document</b>	<b>Year it was produced</b>	<b>Produced by</b>
Generic Community Land Plan of Management – Natural Areas	2001	Shoalhaven City Council
Foreshore Reserves Policy	2005	Shoalhaven City Council
Southern Rivers Catchment Action Plan 2013 - 2023	2013	Southern Rivers Catchment Management Authority

### 13. RECOMMENDED PLANTING/REVEGETATION SPECIES LIST

Sites 1,2 and 4 (The Marina, Ocean Street and The Mall)

NB Only understorey species to be planted at The Mall

OVERSTOREY TREES	
Botanical	Common
<i>Acmena smithii</i>	Lilli Pilli
<i>Casuarina glauca</i>	Swamp She-oak
<i>Leptospermum laevigatum</i>	Coastal Tea tree
SHRUBS	
Botanical	Common
<i>Acacia longifolia</i> spp. <i>sophorae</i>	Coastal Wattle
<i>Correa alba</i>	White Correa
<i>Leucopogon parviflorus</i>	Bearded Heath
<i>Myoporum boninense</i>	Boobialla
UNDERSTOREY (grasses, herbs, climbers)	
Botanical	Common
<i>Cissus antarctica</i>	Kangaroo Grape
<i>Cissus hypoglauca</i>	Water Vine
<i>Lomandra longifolia</i>	Spiny Mat-rush
<i>Rhagodia candolleana</i>	Coastal Saltbush

#### Site 3 (Lee Street)

OVERSTOREY TREES	
Botanical	Common
<i>Acmena smithii</i>	Lilli Pilli
<i>Casuarina glauca</i>	Swamp She-oak
<i>Leptospermum laevigatum</i>	Coastal Tea tree
<i>Omalanthus populifolius</i>	Bleeding Heart
<i>Trema tomentosa</i>	Poison Peach
SHRUBS	
Botanical	Common
<i>Correa alba</i>	White Correa
UNDERSTOREY (grasses, herbs, climbers)	
Botanical	Common
<i>Cissus antarctica</i>	Kangaroo Grape
<i>Juncus krausii</i>	
<i>Lomandra longifolia</i>	Spiny Mat-rush

## 14. SITE WEED LIST

1. The Marina		
Noxious (class)	Environmental	Control Method HP= hand pull CP= cut & paint with glyphosate 3:1 SP= spray glyphosate 100:1
Lantana (4 or 5)		HP/CP
Bitou bush (4)		HP/CP
Green cestrum (3)		Scrape & paint glyphosate 1.5:1 / HP seedlings
Bridal creeper (5)		Dig rhizome/ Fungal rust
	Asparagus fern	Dig rhizome
	Coastal Morning glory	HP
	Senna	HP/CP
	Norfolk Island hibiscus	CP/ drill or frill if large
	Mirror bush	CP/ drill or frill if large
	Mother of millions	HP and bag/ spray fluroxypyr (200g/L) at 60ml/10L + surfactant
	Trad	HP and bag/ spray fluroxypyr (200g/L) at 100ml/10L + surfactant
	Japanese honeysuckle	HP/CP/ SP
	Fishbone fern	HP/ SP
	Flowering ivy ( <i>Senecio macroglossus</i> )	HP and bag/SP
	Cape ivy	HP and bag/ SP
	Kikuyu	SP
	Buffalo grass	SP
	Ehrharta	HP bag seed/ SP
	Fleabane	HP/ SP
	Scotch thistle	HP/ SP
	Sow thistle	HP/ SP
	Parramatta grass	HP/ SP
	Blowfly grass	
	Hare's tail grass	
	Kurnell curse (pennywort)	
	Acacia saligna	CP
	Yucca	CP
	Nasturtium	HP
	Cape honeysuckle (Tecoma)	HP/CP
	Shade crassula	HP
	South African daisy	HP/ SP
	Heart leaf ice plant ( <i>Aptenia cordifolia</i> )	HP
	Marram grass	

<b>2. Ocean Street</b>		
<b>Noxious (class)</b>	<b>Environmental</b>	<b>Control Method</b>
Lantana (4 or 5)		HP/CP
Bitou bush (4)		HP/CP
Blackberry (4)		Dig rhizome/spray Triclopyr as per label instructions
	Asparagus fern	Dig rhizome
	Kikuyu	SP
	Buffalo grass	SP
	Climbing groundsel ( <i>Senecio angulatus</i> )	HP and bag/SP
	Moth vine	HP
	Ehrharta	HP bag seed/ SP
	Fleabane	HP/SP
	Spider lily	HP and bag
	Fumaria	HP/SP
	Petty spurge	
	Blowfly grass	
	Scotch thistle	HP/SP
	Kurnell curse (pennywort)	

<b>3. Lee Street</b>		
<b>Noxious (class)</b>	<b>Environmental</b>	<b>Control Method</b>
Lantana (4 or 5)		HP/CP
Blackberry (4)		Dig rhizome/spray Triclopyr as per label instructions
	Japanese honeysuckle	HP/CP/SP
	Asparagus fern	Dig rhizome
	Senna	HP/CP
	Kikuyu	SP
	Jasmine	HP/CP
	Fishbone fern	HP/SP
	Plantain	HP/SP
	Purple top	HP/SP
	Dock	
	Bidens	HP/SP
	Fleabane	HP/SP
	Blowfly grass	
	Shivery grass ( <i>Briza minor</i> )	
	Phalaris	HP/SP
	Scotch thistle	HP/SP
	Kurnell curse (pennywort)	



<b>4. The Mall</b>		
<b>Noxious (class)</b>	<b>Environmental</b>	<b>Control Method</b>
Bitou bush (4)		HP/CP
	Turkey rhubarb	Dig tubers/SP
	Asparagus fern	Dig rhizome
	Buffalo grass	SP
	Sow thistle	HP/SP
	Marram grass	
	Fat hen	HP/SP
	Ehrharta	HP bag seed/SP
	Fleabane	HP/SP
	Plantain	HP/SP
	Hare's tail grass	
	Chick weed	
	Dandelion	HP/SP

## 15. BUSHCARE SITE SPECIES LIST (NATIVE)

### 15.1. The Marina

OVERSTOREY TREES	
Botanical	Common
<i>Acmena smithii</i>	Lilli Pilli
<i>Banksia oblongifolia</i>	Coastal Banksia
<i>Eucalyptus botryoides</i>	Bangalay
<i>Leptospermum laevigatum</i>	Coastal Tea-tree
<i>Pittosporum undulatum</i>	Sweet Pittosporum

MID STOREY TREES/SHRUBS	
Botanical	Common
<i>Acacia longifolia</i> var. <i>sophorae</i>	
<i>Breynia oblongifolia</i>	Breynia
<i>Correa alba</i>	White Correa
<i>Leucopogon parviflorus</i>	
<i>Monotoca elliptica</i>	Tree Broom-heath
<i>Myoporum boninense</i>	Boobialla
<i>Omalanthus populifolius</i>	Bleeding Heart

SHRUBS	
Botanical	Common
<i>Crinum pedunculatum</i>	Swamp Lily
<i>Isolepis nodosa</i>	
<i>Lomandra longifolia</i>	Spiny mat-rush
<i>Pteridium esculentum</i>	Bracken
<i>Rhagodia candolleana</i>	Coastal saltbush
<i>Urtica incisa</i>	Stinging nettle

UNDERSTOREY (grasses, herbs, orchids)	
Botanical	Common
<i>Actites megalocarpa</i>	Coastal Sowthistle
<i>Austrofestuca littoralis</i>	Coastal Fescue
<i>Cakile edentula</i>	Sea Rocket
<i>Calystegia soldanella</i>	
<i>Carpobrotus glaucescens</i>	Pig Face
<i>Dianella congesta</i>	Coastal Flax Lily
<i>Geranium homeanum</i>	Northern Cranesbill
<i>Pelargonium australe</i>	Coastal Geranium
<i>Scaevola calendulacea</i>	Scented Fan Flower
<i>Senecio hispidulus</i>	Rough Groundsel
<i>Spinifex sericeus</i>	Spinifex
<i>Tetragonia tetraganoides</i>	New Zealand Spinach

<b>UNDERSTOREY (vines &amp; climbers)</b>	
<b>Botanical</b>	<b>Common</b>
<i>Cissus antarctica</i>	Kangaroo Grape
<i>Cissus hypoglauca</i>	Water Vine
<i>Clematis aristata</i>	Old Man's Beard
<i>Hibbertia scandens</i>	Golden Guinea Flower
<i>Stephania japonica</i>	Snake Vine

## 15.2. Ocean Street

<b>OVERSTOREY TREES</b>	
<b>Botanical</b>	<b>Common</b>
<i>Banksia oblongifolia</i>	Coastal Banksia
<i>Casuarina glauca</i>	Swamp She-oak
<i>Leptospermum laevigatum</i>	Coastal Tea-tree

<b>MID STOREY TREES/SHRUBS</b>	
<b>Botanical</b>	<b>Common</b>
<i>Acacia longifolia</i> var. <i>sophorae</i>	Coastal Wattle
<i>Breynia oblongifolia</i>	Breynia
<i>Leucopogon parviflorus</i>	Pigeon Berry Ash
<i>Myoporum boninense</i>	Boobiolla
<i>Omalanthus populifolius</i>	Bleeding Heart

<b>SHRUBS</b>	
<b>Botanical</b>	<b>Common</b>
<i>Isolepis nodosa</i>	Nodding Rush
<i>Lomandra longifolia</i>	Spiny mat-rush
<i>Rhagodia candolleana</i>	Coastal saltbush
<i>Solanum americanum</i>	Nightshade
<i>Urtica incisa</i>	Stinging nettle

<b>UNDERSTOREY (grasses, herbs, orchids)</b>	
<b>Botanical</b>	<b>Common</b>
<i>Actites megalocarpa</i>	Coastal Sowthistle
<i>Cakile edentula</i>	Sea Rocket
<i>Carpobrotus glaucescens</i>	Pig Face
<i>Commelina cyanea</i>	Bind Weed
<i>Dianella congesta</i>	Coastal Flax Lily
<i>Dichondra repens</i>	Kidney Weed
<i>Geranium homeanum</i>	Northern Cranesbill
<i>Imperata cylindrica</i>	Blady grass
<i>Senecio hispidulus</i>	Rough Groundsel
<i>Spinifex sericeus</i>	Spinifex

<i>Tetragonia tetraganoides</i>	New Zealand Spinach
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<b>UNDERSTOREY (vines &amp; climbers)</b>	
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<b>Botanical</b>	<b>Common</b>
<i>Parsonsia straminea</i>	Common Silk-pod
<i>Eustrephus latifolia</i>	Wombat Berry
<i>Hibbertia scandens</i>	Golden Guinea Flower

### 15.3. Lee Street

<b>OVERSTOREY TREES</b>	
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<b>Botanical</b>	<b>Common</b>
<i>Pittosporum undulatum</i>	Sweet Pittosporum

<b>MID STOREY TREES/SHRUBS</b>	
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<b>Botanical</b>	<b>Common</b>
<i>Acacia longifolia</i> var. <i>sophorae</i>	
<i>Acacia mearnsii</i>	Black Wattle
<i>Omalanthus populifolius</i>	Bleeding Heart
<i>Breynia oblongifolia</i>	Breynia

<b>SHRUBS</b>	
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<b>Botanical</b>	<b>Common</b>
<i>Acacia longifolia</i> var. <i>sophorae</i>	
<i>Acmena smithii</i>	Lilli Pilli
<i>Banksia oblongifolia</i>	Coastal Banksia
<i>Casuarina glauca</i>	Swamp She-oak
<i>Correa alba</i>	White Correa
<i>Ghania</i> sp.	
<i>Isolepis nodosa</i>	
<i>Juncus krausii</i>	
<i>Leptospermum laevigatum</i>	Coastal Tea-tree
<i>Lomandra longifolia</i>	Spiny mat-rush
<i>Pteridium esculentum</i>	Bracken
<i>Trema tomentosa</i>	Poison Peach

<b>UNDERSTOREY (grasses, herbs, orchids)</b>	
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<b>Botanical</b>	<b>Common</b>
<i>Dianella</i> sp.	Flax Lily
<i>Entolasia marginata</i>	
<i>Geranium homeanum</i>	Northern Cranesbill
<i>Microlaena stipoides</i>	Weeping Meadow Grass
<i>Rubus parvifolius</i>	Native Raspberry
<i>Senecio hispidulus</i>	Rough Groundsel
<i>Viola hederacea</i>	Native Violet

<b>UNDERSTOREY (vines &amp; climbers)</b>	
<b>Botanical</b>	<b>Common</b>
<i>Celtis antarctica</i>	Kangaroo Grape
<i>Eustrephus latifolia</i>	Wombat Berry

#### 15.4. The Mall

<b>16. OVERSTOREY TREES</b>	
<b>Botanical</b>	<b>Common</b>

<b>MID STOREY TREES/SHRUBS</b>	
<b>Botanical</b>	<b>Common</b>
<i>Acacia longifolia</i> var. <i>sophorae</i>	
<i>Breynia oblongifolia</i>	Breynia
<i>Correa alba</i>	White Correa
<i>Leptospermum laevigatum</i>	Coastal Tea-tree
<i>Leucopogon parviflorus</i>	
<i>Myoporum boninense</i>	Boobialla
<i>Pittosporum undulatum</i>	Sweet Pittosporum

<b>SHRUBS</b>	
<b>Botanical</b>	<b>Common</b>
<i>Lomandra longifolia</i>	Spiny mat-rush
<i>Rhagodia candolleana</i>	Coastal saltbush
<i>Solanum americanum</i>	
<i>Isolepis nodosa</i>	

<b>UNDERSTOREY (grasses, herbs, orchids)</b>	
<b>Botanical</b>	<b>Common</b>
<i>Geranium homeanum</i>	Northern Cranesbill
<i>Dianella congesta</i>	Coastal Flax Lily
<i>Pelargonium australe</i>	Coastal Geranium
<i>Carpobrotus glaucescens</i>	Pig Face
<i>Tetragonia tetraganoides</i>	New Zealand Spinach
<i>Viola hederacea</i>	Native Violet

**Bushcare Group Name The Marina Bushcare Group.**

**Coordinator Name .....**

**Signature .....**

**Date ...../.....**