



#### THE MARINA BUSHCARE ACTION PLAN

Document Number: D14/11214 - Adopted:22/07/2014 – File:26279e 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
1. The Marina			
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.	н	Hand weed Coastal Morning Glory and other species where possible. Scrape & paint Green Cestrum	1-2year
Control of environmental weeds (priority given to noxious species) in area of moderate weed infestation south of Mowbray Rd track.	М	Hand weed. Spray dense areas of weeds where appropriate.	1-3year
Maintenance of plantings.	L	Periodic checking & weeding of plants in guards. Removal of guards when established. Replacement of plants where necessary.	Ongoing -until plants est.
Ongoing weed maintenance.	L	Periodic sweeps- hand weeding	Ongoing

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

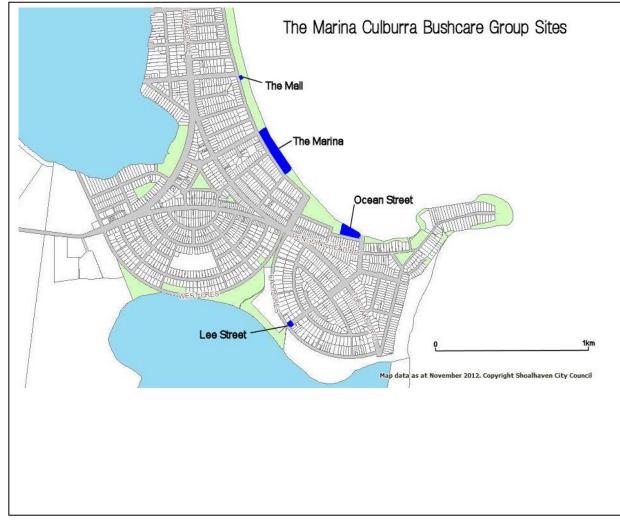
GROUP ACTION (these should relate to your project description)	PRIORITY	METHOD	TIME
3. Lee Street			
Maintenance of plantings	L	Periodic checking & weeding of plants in guards. Removal of guards when established. Replacement of plants where necessary.	Ongoing -until plants est.
Ongoing weed maintenance	L	Periodic sweeps – hand weeding	Ongoing
4. The Mall			
Maintenance of plantings	L	Periodic checking & weeding of plants in guards. Removal of guards when established. Replacement of plants where necessary.	Ongoing -until plants est.
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.			

GROUP ACTION (these should relate to your project description)	PRIORITY	METHOD	TIME

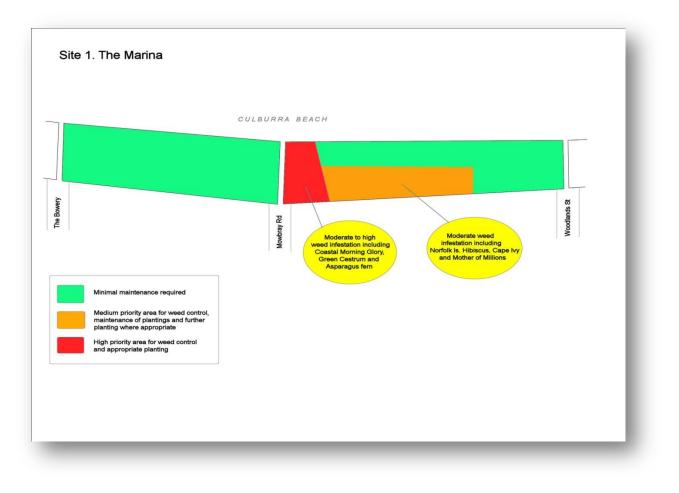
# 5. BUSHCARE GROUP ACTION PLAN MAP

#### S

# Map 1. Overview of The Marina Bushcare Sit



THE MARINA BUSHCARE ACTION PLAN Page 6 of 22

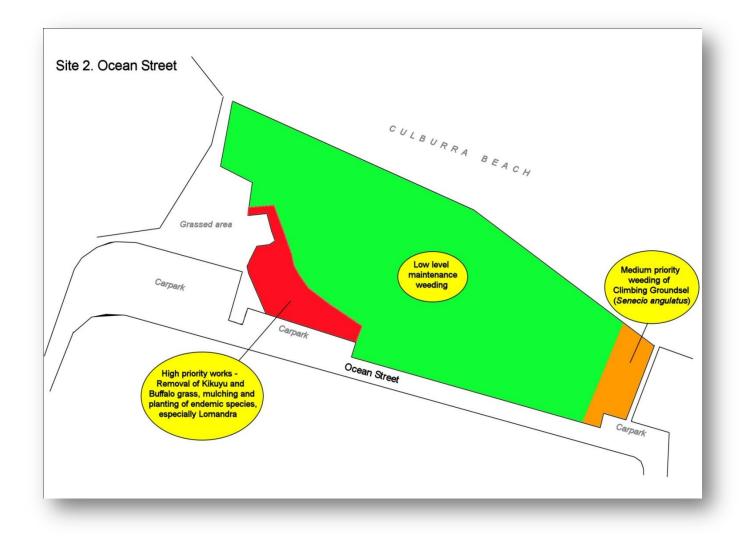




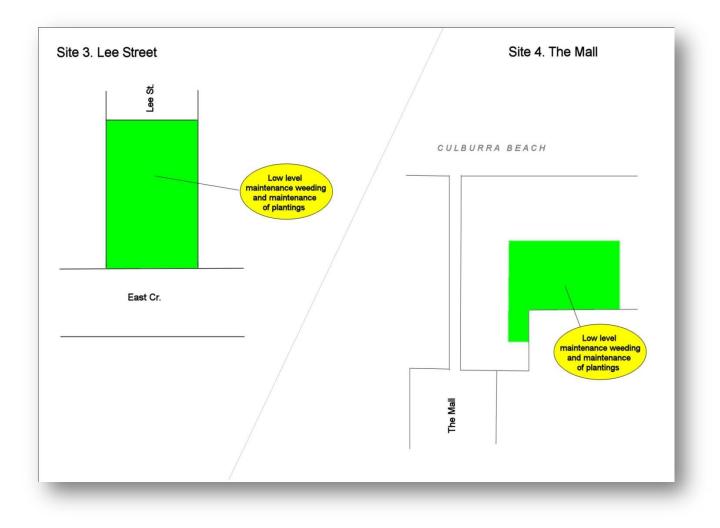
Site 1. The Marina (southern end) photo J. Polosak



Site 2. Ocean Street



THE MARINA BUSHCARE ACTION PLAN Page 9 of 22





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**

Project	Funding source
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

Name of document	Year it was produced	Produced by
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	
Acmena smithii	Lilli Pilli	
Casuarina glauca	Swamp She-oak	
Leptospermum laevigatum	Coastal Tea tree	
SHRUBS		
Botanical	Common	
Acacia longifolia spp. sophorae	Coastal Wattle	
Correa alba	White Correa	
Leucopogon parviflorus	Bearded Heath	
Myoporum boninense	Boobialla	
UNDERSTOREY (gras	sses, herbs, climbers)	
Botanical	Common	
Cissus antarctica	Kangaroo Grape	
Cissus hypoglauca	Water Vine	
Lomandra longifolia	Spiny Mat-rush	
Rhagodia candolleana	Coastal Saltbush	

# Site 3 (Lee Street)

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

#### **14.SITE WEED LIST**

1. The Marina			
Noxious (class)	(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 (Senecio macroglossus)	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	СР	
	Yucca	СР	
	Nasturtium	HP	
	Cape honeysuckle (Tecoma)	HP/CP	
	Shade crassula	HP	
	South African daisy	HP/SP	
	Heart leaf ice plant (Aptenia cordifolia)	HP	
	Marram grass		

2. Ocean Street		
Noxious (class)	Environmental	Control Method
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 (Senecio angulatus)	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)	

3. Lee Street		
Noxious (class)	Environmental	Control Method
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)	

4. The Mall		
Noxious (class)	Environmental	Control Method
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		
Acmena smithii	Lilli Pilli	
Banksia oblongifolia	Coastal Banksia	
Eucalyptus botryoides	Bangalay	
Leptospermum laevigatum	Coastal Tea-tree	
Pittosporum undulatum	Sweet Pittosporum	

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

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

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

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

# 15.2. Ocean Street

OVERSTOREY TREES	
Botanical Common	
Banksia oblongifolia	Coastal Banksia
Casuarina glauca	Swamp She-oak
Leptospermum laevigatum	Coastal Tea-tree

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

SHRUBS		
Botanical Common		
Isolepsis nodosa	Nodding Rush	
Lomandra longifolia	Spiny mat-rush	
Rhagodia candolleana	Coastal saltbush	
Solanum americanum	Nightshade	
Urtica incisa	Stinging nettle	

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

Tetragonia tetraganoides

New Zealand Spinach

UNDERSTOREY (vines & climbers)		
Botanical Common		
Parsonsia straminea	Common Silk-pod	
Eustrephus latifolia	Wombat Berry	
Hibbertia scandens	Golden Guinea Flower	

# 15.3. Lee Street

OVERSTOREY TREES	
Botanical	Common
Pittosporum undulatum	Sweet Pittosporum

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

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

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

UNDERSTOREY (vines & climbers)	
Botanical	Common
Celtis antarctica	Kangaroo Grape
Eustrephus latifolia	Wombat Berry

## 15.4. The Mall

16.OVERSTOREY TREES	
Botanical	Common

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

SHRUBS	
Botanical	Common
Lomandra longifolia	Spiny mat-rush
Rhagodia candolleana	Coastal saltbush
Solanum americanum	
Isolepsis nodosa	

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

Bushcare Group Name The Marina Bushcare Group.

Coordinator Name

Signature .....

Date ..../....