



## DEPOT BEACH BUSHCARE ACTION PLAN

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### CONTACT INFORMATION

<b>Group Name:</b>	Depot Beach Bushcare Group
<b>Contact:</b>	Leonie Kestel
<b>Reserve Name:</b>	Depot Beach
<b>Land Tenure:</b>	NPWS & SCC Road Reserve

### 1. BUSHCARE GROUP GOALS

<p>The goals of the Bushcare Group plan are:</p> <ol style="list-style-type: none"><li>1. To restore the endemic vegetation types and local biodiversity of the forest of Depot Beach</li><li>2. To bring the number of weeds mentioned in the following pages down to a more manageable level to ensure on-going maintenance activities can be effective and maintained.</li><li>3. Promote a sense of caring and ownership of the surrounding bushland.</li><li>4. Raise the awareness of residents in the village of the negative impact on the local biodiversity of invasive plants, especially common ornamental garden plants that can be invasive in local bushland.</li></ol>
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**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	PRIORITY	METHOD	TIME
<p>Zone 1 - Priority 1</p> <p>1. Undertake control of the following weed species:</p> <ul style="list-style-type: none"> <li>○ <i>Polygala myrtifolia</i> (Butterfly Bush)</li> <li>○ <i>Vinca major</i> (Vinca)</li> <li>○ <i>Asparagus asparagoides</i> (Ground Asparagus)</li> <li>○ <i>Senna pendula</i> var. <i>Pendula</i> (Winter senna)</li> <li>○ <i>Bryophyllum delagoense</i> (Mother of Millions)'</li> </ul> <p>2. Revegetate areas left bare by weed control.</p> <p>3. Seek funds to undertake a Review of Environmental Factors (REF) to undertake a staged control program of <i>Pittosporum undulatum</i> (Sweet Daphnae) within this zone.</p>	<p>H</p> <p>L</p>	<p>Council to supply a Bushcare Field Officer to assist with technical advice for volunteers on site</p> <p>Use following methods for weed control:</p> <ul style="list-style-type: none"> <li>a) Remove Butterfly Bush seedlings by hand. Cut and paint mature plants with undiluted glyphosate</li> <li>b) Remove Winter Senna seedlings by hand. Cut and paint mature plants with undiluted glyphosate. Bag and remove seed pods from site</li> <li>c) Small Vinca infestations can be dug out (all traces of stem need to be removed as any fragment can re-grow). Spraying of several larger infestations may be required</li> <li>d) Dig and remove Ground Asparagus and all trace of plant including rhizomes</li> </ul>	<p>2012 - 2014</p>

GROUP ACTION	PRIORITY	METHOD	TIME
		e) Hand Pull Mother of Millions seedlings and more mature plants, being careful not to disturb any intact plantlets that mature plants may be carrying 2. Plant in niches where weeds have been removed/controlled 3. BG, SCC and NPWS to source funds to prepare an REF for Sweet Daphnae control program	
Zone 2 1. Undertake control of following weed species: a. <i>Polygala myrtifolia</i> (Butterfly Bush) b. <i>Conzya albida</i> (Fleabane)  2. Revegetate areas left bare by weed control.	M	Use the following weed control methods: 1a. Remove Butterfly Bush seedlings by hand. Cut and paint mature plants with undiluted glyphosate 1b. Hand pull Fleabane and bag to remove off site  2. Plant in niches where weeds have been removed/controlled	2012 - 2015
Zone 3 • Undertake control of the following weed species:	H	Use the following weed control methods:	2012 - 2015

GROUP ACTION	PRIORITY	METHOD	TIME
<ul style="list-style-type: none"> <li>○ Euphorbia paralias (Sea Spurge)</li> <li>a. <i>Conzya albida</i> (Fleabane)</li> </ul>		<ul style="list-style-type: none"> <li>● Hand-pull Sea Spurge plants and leave on site. Ensure that gloves are worn at all times due to toxic latex sap and avoid eye contact</li> </ul>	
<p>Zone 4</p> <ul style="list-style-type: none"> <li>● Undertake control of the following weed species: <ul style="list-style-type: none"> <li>○ <i>Bryophyllum delagoense</i> (Mother of Millions)</li> <li>a. <i>Asparagus asparagiodes</i> (Ground Asparagus)</li> <li>○ <i>Chlorophytum comosum</i> (Spider Plant)</li> </ul> </li> </ul>	M	<p>Use the following weed control methods:</p> <ul style="list-style-type: none"> <li>● Hand Pull Mother of Millions seedlings and more mature plants, being careful not to disturb any intact plantlets that mature plants may be carrying <ul style="list-style-type: none"> <li>a. Dig and remove Ground Asparagus and all trace of plant including rhizomes</li> </ul> </li> <li>● Hand dig out Spider Plant and remove from site</li> </ul>	2012 - 2015
<p>Zone 5</p> <p>Undertake control of the following weed species:</p> <ul style="list-style-type: none"> <li>a. <i>Bryophyllum delagoense</i> (Mother of Millions)</li> <li>b. <i>Senna pendula</i> var. <i>Pendula</i> (Winter senna)</li> <li>c. <i>Aloe</i> spp.</li> </ul>	H	<p>Use the following weed control methods:</p> <ul style="list-style-type: none"> <li>● Hand Pull Mother of Millions seedlings and more mature plants, being careful not to disturb any intact plantlets that mature plants may be carrying</li> <li>● Smaller <i>Aloe</i> spp. can be dug</li> </ul>	2012 & on-going

GROUP ACTION	PRIORITY	METHOD	TIME
		<p>out and removed off site</p> <ul style="list-style-type: none"> <li>• Hand pull small Senna and cut and paint larger plants with 1:3 ratio glyphosate and water.</li> </ul>	
<p>Undertake re-vegetation of areas opened up by weed control using species endemic to the Marramarang National Park using species from this plan suggested re-vegetation species list (ensure all current views/vistas are not impacted on from re-vegetation activities).</p>	M	<p>Use species from suggested revegetation list in plan</p>	On-going
<p>Partner with NSW National Parks &amp; Wildlife Service, Murramarang Progress Association, Shoalhaven Council and Milton Rural Landcare Nursery to implement a “Invasive garden weed replacement” program by which local residents can swap known invasive garden plants with non-invasive plants as an alternative.</p>	M	<p>The Garden swap program undertake following steps:</p> <ul style="list-style-type: none"> <li>• Apply for grant funding to assist with program</li> <li>• Distribute flyer advertising the “replacement program” along “Grow Me Instead” booklet</li> <li>• Distribute plants to residents as required</li> <li>• Bushcare Group to offer advise locally</li> </ul>	2014 -15

### 3. DEPOT BEACH BUSHCARE GROUP ACTION PLAN MAP



#### 4. BUSHCARE GROUP WHS & EQUIPMENT REQUIREMENTS

Type of Activity	Yes	SWMS name included
Manual weed control (cut & paint, scrape and paint etc)	√	SWMSNR040 Weed Control Activities
Chemical control (spraying of herbicides)	√	SWMSNR040 Weed Control Activities
Planting	√	SWMSNR030 Planting, Propagation and Seed Collection
Propagation & seed collection		
Education (school groups, field days etc)		
Other		

#### 5. COUNCIL SUPPORT

Technical advice and support

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

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

Yes

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

<b>PPE Equipment Required</b>	<b>Date issued</b>
First Aid Kit	2012
Gloves	2012
Sunscreen	2012
Insect repellent	2012

## 8. POSSIBLE FUTURE FUNDING

<b>Project</b>	<b>Funding source</b>
Assistance with weed control	Shoalhaven City Council and Office of Environment and Heritage
<i>Pittosporum undulatum</i> REF	SRCMA/SCC

## 9. 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>
Shoalhaven Foreshore Reserve Policy	2004	Shoalhaven City Council
Murramarang NP, Brush Island, Belowla Island and Tollgate Islands Nature Reserves – Plan of Management	2002	NSW National Parks and Wildlife Service



## 10. RECOMMENDED PLANTING/REVEGETATION SPECIES LIST

<b>OVERSTOREY TREES</b>	
<b>Botanical</b>	<b>Common</b>
<i>Banksia integrifolia subsp. integrifolia</i>	Coastal Banksia
<i>Casuarina glauca</i>	Swamp Oak
<i>Corymbia maculata</i>	Spotted Gum
<i>Eucalyptus botryoides</i>	Bangalay
<b>SHRUBS</b>	
<b>Botanical</b>	<b>Common</b>
<i>Acacia floribunda</i>	White Sally
<i>Acacia longifolia</i>	Sydney Golden Wattle
<i>Correa alba</i>	White Correa
<i>Crinum pedunculatum</i>	Swamp Lily
<i>Dodonaea triquetra</i>	Large leaf Hop
<i>Ficus coronata</i>	Creek Sandpaper Fig
<i>Lomandra longifolia</i>	Spiny Matt-Rush
<i>Melaleuca hypericifolia</i>	Hillock bush
<i>Persoonia linearis</i>	Narrow leaved Geebung
<i>Pittosporum revolutum</i>	Rough Fruit Pittosporum
<i>Pultenaea daphnoides</i>	Bush Pea
<i>Westringia fruticosa</i>	Native Rosemary
<b>UNDERSTOREY (grasses, herbs, climbers)</b>	
<b>Botanical</b>	<b>Common</b>
<i>Acacia terminalis</i>	Sunshine Wattle
<i>Atriplex cinerea</i>	Grey Saltbush
<i>Carpobrotus glaucescens</i>	Native Pigface
<i>Commelina cyanea</i>	Scurvy Weed
<i>Dianella Species</i>	Blue Flax-lily
<i>Dianella spp.</i>	Native Flax
<i>Doodia aspera</i>	Prickly Rasp Fern
<i>Gompholobium latifolium</i>	Golden Glory Pea
<i>Goodenia ovata Hop Goodenia</i>	Goodenia ovata Hop Goodenia
<i>Hardenbergia violacea</i>	Native Sarsaparilla
<i>Hardenbergia violacea</i>	False Sarsaparilla
<i>Hibbertia aspera</i>	Twining Guinea Flower
<i>Hibbertia diffusa</i>	Prostrate Guinea Flower
<i>Hibbertia diffusa</i>	Prostrate Guinea Flower
<i>Hibbertia scandens</i>	Snake Vine
<i>Hibbertia scandens</i>	Climbing Guinea Flower
<i>Kennedia rubicunda</i>	Running Postman
<i>Lomandra filiformis subsp. filiformis</i>	
<i>Macrozamia communis</i>	Burrawang
<i>Pandorea pandorana</i>	Wonga Wonga Vine
<i>Poa labillardieri</i>	Poa Tussock
<i>Prostanthera violacea</i>	

<i>Scaevola aemula</i>	Purple Fan Flower
<i>Scaevola ramosissima</i>	Purple Fan Flower

**11. SITE WEED LIST (See attached Bush Regenerators Information Sheets for further details)**

<b>Noxious</b>	<b>Environmental</b>	<b>Control Method</b>
	Agapanthus Sp (Agapanthus)	Cut seed heads off and bag and dig out crown of the plants
	Agave Sp (Agave)	Dig out plants crown and remove from site
	Asparagus aethiopicus (Asparagus Fern)	Crown out individual plants and remove crowns from site
	Bidens pilosa (Cobblers Pegs)	Remove seed head and spot spray with a non-selective herbicide
	Bryophyllum delagoense (Mother of Millions)	Carefully hand remove all plant matter from site larger infestations can be sprayed with a selective herbicide.
	Chlorophytum comosum (Spider Plant)	Crown out plants and remove from site or spot spray larger infestations
	Erythrina X sykesii (Coral Tree)	Cut and paint smaller plants or drill and inject with 100% glyphosate
	Gomphocarpus fruiticosus ( Narrow Leaf Cotton Bush)	Hand pull or spot spray
	Hedychium gardnerianum (Ginger Lily)	Dig out underground growing parts and remove from site
	Ipomea carica ( Coastal morning glory)	Scrape and paint and remove larger biomass from site
	Lonicera japonica (Japanese Honeysuckle)	Scrape and paint smaller infestations or spot spray larger infestations with a non selective herbicide such as glyphosate
	Nephrolepis cordifolia(Fishbone Fern)	Dig out underground growing parts and remove from site or spot spray with a selective herbicide
	Polygala myrtifolia (Myrtle Leaf Milkwort)	Cut and paint larger plants and remove from site, smaller plants can be hand removed
	Senna pendula spp. pendula (Cassia)	Cut and paint larger plants or hand pull smaller plants
	Sollya heterophylla (Bluebell Creeper)	Spot spray with a non selective herbicide
	Vinka major (Perriwinkle)	Spot spray with a selective herbicide
	Watsonia bulbifera (Watsonia)	Cut off ripe seed bulbils and bag and remove from site, spot spray plants or hand

		pull smaller one ensure all off underground corms are removed as they easily dislodge and can remain in soil profile
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## 12. BUSHCARE SITE SPECIES LIST

<b>OVERSTOREY TREES</b>	
<b>Botanical</b>	<b>Common</b>
<i>Acacia mabelliae</i>	Mabel's Wattle
<i>Corymbia maculata</i>	Spotted Gum
<i>Eucalyptus botryoides</i>	Southern Mahogany
<i>Eucalyptus sieberi</i>	Silver Top Ash
<b>SHRUBS</b>	
<b>Botanical</b>	<b>Common</b>
<i>Acacia longifolia</i> spp. <i>longifolia</i>	Sydney Golden Wattle
<i>Acmena smithii</i>	Lilly Pilly
<i>Allcoasuarina paludosa</i>	She Oak
<i>Banksia integrifolia</i>	Coastal Banksia
<i>Breynia oblongifolia</i>	Breynia
<i>Cassine australis</i>	Red Fruited Olive Plum
<i>Cassinia aculeata</i>	Dog Wood
<i>Eleocarpus reticulatus</i>	Blueberry Ash
<i>Eupomatia laurina</i>	Bolwarra
<i>Ficus coronata</i>	Sandpaper Fig
<i>Hibbertia aspera</i>	Guinea Flower
<i>Leptospermum polygalifolium</i>	Lemon Scented Tea Tree
<i>Leucopogon juniperinus</i>	Prickly Beard-Heath
<i>Melaleuca armillaris</i>	Bracelet Honey-Myrtle
<i>Melaleuca hypericifolia</i>	Hillock Bush
<i>Myoporum insulare</i>	Coastal Boobialla
<i>Notolea longifolia</i>	Mock Olive
<i>Pittosporum revolutum</i>	Rough Fruited Pittosporum
<i>Pittosporum undulatum</i>	Sweet Pittosporum
<i>Synoum glandulosum</i>	Bastard Rosewood
<i>Westringia fruticosa</i>	Coastal Rosemary
<b>UNDERSTOREY (grasses, herbs, orchids)</b>	
<b>Botanical</b>	<b>Common</b>
<i>Acaena novae zelandiae</i>	Biddy Biddy
<i>Carex appressa</i>	Tall Sedge
<i>Centella asiatica</i>	Centella
<i>Dicondra repens</i>	Kidney Weed
<i>Gahnia</i> sp	Sword Grass
<i>Imperata cylindrica</i>	Blady Grass
<i>Isolepis nodosa</i>	Knobbly Rush
<i>Lepidosperma laterale</i>	Lepidosperma
<i>Lomandra longifolia</i>	Spiny Matt Rush
<i>Microlaena stipoides</i>	Weeping Grass
<i>Rubus parvifolius</i>	Native Raspberry

<i>Sigesbeckia orientallis</i>	Indian Weed
<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 Mans Beard
<i>Eustrephis latifolius</i>	Wombat Berry
<i>Hibbertia scandens</i>	Guinea Flower
<i>Kennedia rubicunda</i>	Running Postman
<i>Tylophora barbata</i>	Tylophora

**Bushcare Group Name:** .....

**Coordinator Name:**.....

**Signature:** .....

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