

SHOALHAVEN HEADS BUSHCARE ACTION PLAN

CONTACT INFORMATION

Group Name: Shoalhaven Heads Bushcare Group

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Email: nschneider@shoal.net.au **Reserve Name:** Shoalhaven Heads Beach

Reserve No: NSH149 Land Tenure: Crown Land

Comm. Land Type: Crown Land TM/CCM

1. BUSHCARE GROUP GOALS

The Shoalhaven Heads Bushcare Group has been working for fifteen years on the Crown Land Reserve that surrounds the Holiday Haven Tourist Park, concentrating their efforts on the fore-dune and hind-dune areas as well as the Shoalhaven River. Shoalhaven Heads Bushcare Group have undertaken primary weed removal of Lantana, Lions Tail, Bitou Bush, Asparagus Fern, Coral Trees, Turkey Rhubarb and Blackberry across the dunes. Large areas of the Bushcare Group's site are now at the secondary maintenance stage, although there are several weed species that are beyond the groups resources and assistance is required to help the Bushcare group tackles these, those weed species include:

- 1. Erythrina X sykesii Coral Tree
- 2. Acetosa sagittata Turkey Rhubarb
- 3. Delairea odorata Cape Ivy
- 4. Bryophyllum delagoens Mother of Millions

The other aim of the Bushcare Group is to encourage/stimulate natural regeneration in areas where weed removal has been done over the past three years particularly Lantana.

2. SHOALHAVEN BUSHCARE GROUP ACTION PLAN (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

PLEASE NOTE: To be used with attached weed species maps

GROUP ACTION	PRIORITY	METHOD	TIME
 Asparagus Fern (Asparagus densiformis): Bushcare Group to spot spray all Asparagus Fern but hand remove from areas where there may be a chance of damage to native plants from spraying (Zones 3,4,5) Bridal Creeper (Asparagus asparagoids): Bushcare Group and assistance from Council to release Bridal Creeper Rust (Puccinia myrsiphylli) and monitor 	Н	 Spot spray with combination Metsulfron Methyl at 1-2g per 10litre + Glyphosate at 200mL per 10 litres Liaise with Bushcare Coordinator to obtain rust and follow instructions CSIRO hand out 	1. Early spring to Summ er 2. Late Winter

 3. Bushcare Coordinator to negotiate with Holiday Haven Parks Manager regarding assistance 4. Spot spray Turkey Rhubarb with Glyphosate at 200ml per 10 litres 	Spring Summer
 Council to engage contractor to spray Mother of Millions Bushcare Group to hand remove small plantlets and bag Spray edges and heavily mulch 	Winter – Spring All year Spring –
 2. Spot spray mulched edge with Glyphosate at 100mL per 10 litres 3. Spray in Winter using Glyphosate at 100ml per 10 litres 	Summer All year Winter
	 Bushcare Group to hand remove small plantlets and bag Spray edges and heavily mulch Spot spray mulched edge with Glyphosate at 100mL per 10 litres Spray in Winter using Glyphosate at 100ml per 10

	GROUP ACTION	PRIORITY	METHOD	TIME
Lanta	na (<i>Lantana camara</i>)			
1.	Bushcare Group to follow up control of all re-growth in areas where Lantana has been previously removed (Zones 2,3,4,5,6,)	1.H 2. L	Spot spray re growth Lantana using Glyphosate at 100ml per 10 litres or hand pull	Spring – Summer
2.	and 8 until Turkey Rhubarb and Cape Ivy have been controlled.		 Cut and paint Council to employ contractors and Bushcare to spot spray , 	All year All year
3.	Council to undertake controlled burn and follow up with Lantana control. Bushcare group to follow up with secondary weed control targeting: a. Lantana re-growth	M	cut and paint and hand pulling	
Lions 1.	b. Moth Vine c. Banana passion fruit d. Wild Tobbaco Plant Tail (Leonurus subiricus) Bushcare Group to continue to undertake follow up control of Lions Tail (Zones 6 & 7)	L	Hand pull or cut and paint larger ones	Spring – Summer
1.	Trees (<i>Erythrina X sykesii</i>) Bushcare Group to continue to drill and direct inject Coral Trees that are not overhanging any public access ways or open spaces. Council to remove Coral Trees that may be a risk hazard to the public.	Н	 Drill holes in to 10mm right around trunk and fill with neat Glyphosate Council Tree Management Officer to access risk of each tree and make recommendations for removal 	Autumn – Winter Spring 2010
Biotu 1.	Bush (Chrysanthemoides monilifera) Bushcare Group to work with Council's Bitou Bush Control Officer to assist with the control and removal of Bitou Bush across the site.	M	Council's Bitou Bush Control Officer to liaise with Bushcare Group coordinator in regard to control program for Bitou on site	Winter
Black 1.	cberry (Rubus fruticosus (agg.spp.) Council's Noxious weeds section to control Blackberry within the zone.		Liaise with Noxious Weeds	Autumn- Spring

GROUP ACTION	PRIORITY	METHOD	TIME
1. Council to work with Bushcare Group and Rural Fire Service to undertake a combination of pile burns and small ecological burns in zones 3,4,5 to stimulate germination of native seeds already in the soil strata.	M	Bushcare Coordinator to coordinate pile burns.	Winter
 Remnant patch of Bushland – Jerry Bailey Reserve Bushcare group to target small Madeira Vine infestation and isolated one off Lantana /Bitou Bush patches that occur in the remnant. Council to spray Asparagus fern and Mother of Millions. Bushcare group to distribute "Being a Bush Friendly Neighbour" brochure and install temporary "No Dumping of Garden Waste" signs in reserve 	L	 Scrape and paint stems and dispose of tubers from site. Contractors to spray Mother of Millions and Asparagus fern Council to supply brochures and signs 	 2010 2010 and On going 2010

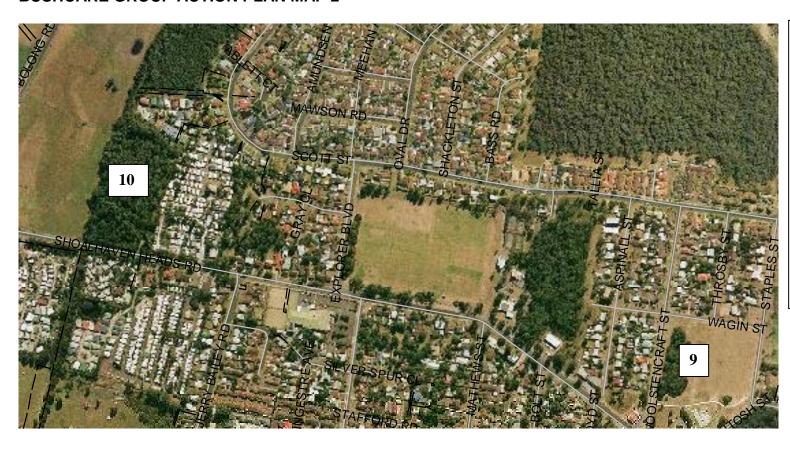
3. BUSHCARE GROUP ACTION PLAN MAP 1 SHOALHAVEN HEADS BUSHCARE GROUP SITE MAP SHOWING MANAGEMENT ZONES



KEY TO ZONES

- Zone 1 Caravan Park Entrance to River Rd
- Zone 2 Wetland area from MacIntosh St to foot track
- Zone 3 Dune area from SLSC to 1st Beach access track
- Zone 4 Dune area from 1st Beach access track to 2nd Beach access track.
- Zone 5 2nd Beach access track to vehicle access track at River Rd car park
- Zone 6 Vehicle access track to bird viewing area track
- Zone 7 Bird viewing access track to 2nd Beach access track.
- Zone 8 Sand spit area

BUSHCARE GROUP ACTION PLAN MAP 2

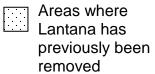


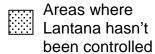
KEY TO ZONES

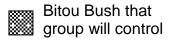
- Zone 9 Small bushland remnant in Jerry Bailey Reserves
- Zone10 Swamp
 Oak Forest and
 Swamp Mahogany
 Forest remnant
 between Berry
 canal and Tall
 Timbers Caravan
 Park



Key



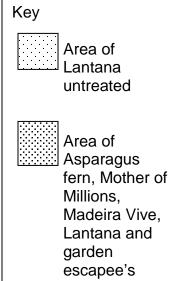




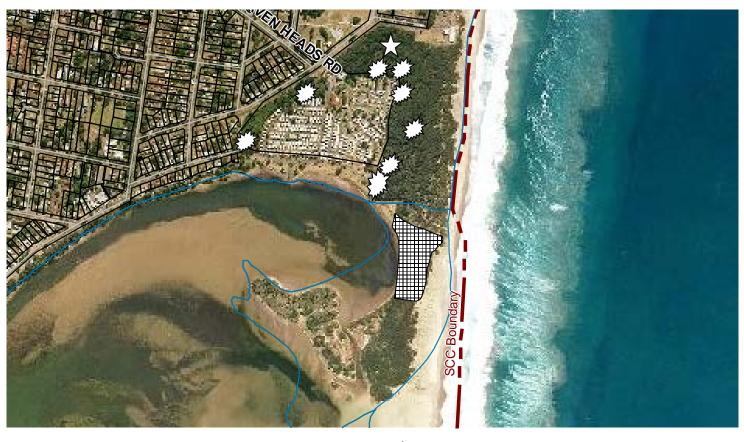


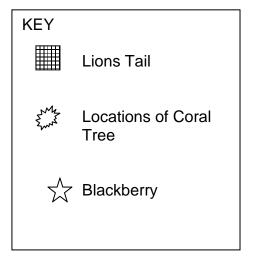
LANTANA AND BITOU BUSH MAP 2





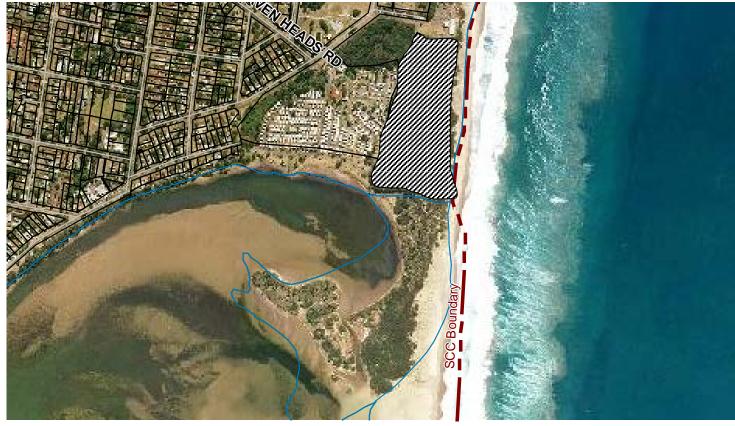
CORAL TREE, BLACKBERRY AND LIONS TAIL MAP







ASPARAGUS FERN AND BRIDAL CREEPER MAP



KEY



Locations of Asparagus Fern & Bridal Creeper



TURKEY RHUBARB AND CAPE IVY MAP



KEY



Turkey Rhubarb and Cape Ivy locations



MOTHER OF MILLIONS & KIKIYU GRASS MAP



KEY



Mother of Millions



Kikuyu/Buffalo grass invading dune bushland areas



4. **BUSHCARE GROUP OH&S & EQUIPMENT REQUIREMENTS**

Type of Activity	Yes	SWMS name included
Manual weed control (cut & paint, scrape and paint etc)	V	SWMS NR060
Chemical control (spraying of herbicides)	V	SWMS NR040
Planting	√	SWMS NR030
Minor construction (walking track, fencing, outdoor furniture)		
Propagation & seed collection Education (school groups, field days etc) Other	√	NA

COUNCIL SUPPORT 5.

- Rabbit control a.
- Weed control of Turkey Rhubarb in zones 1,2,3,5,6,7,8 and b. along river front
- Assist with control of Blackberry, Bitou Bush and Mother of C. Millions
- d. Spray out Bufallo Grass on parkland/bushland boundary in zone
- Removal of Coral Trees that are deemed a public risk e.
- f. Assist with application process for ecological burns

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

Yes √

Attach a copy of the site/s risk assessment to the plan.

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

PPE Equipment Required	Date issued
First Aid Kit	Jan 2007
Gloves	Jan 2007
Sunscreen	Jan 2007
Insect repellent	Jan 2007

8. POSSIBLE FUTURE FUNDING

Project	Funding source
On going dune restoration and expansion of area	SRCMA and Federal

9. PLAN WILL BE REVIEWED EVERY THREE YEARS – NEXT REVIEW DUE: APRIL 2013

The group should review a summary of the Bushcare Policy & Procedures at the time of each annual review

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

Name of document	Year it was produced	Produced by
Natural Areas Generic	2001	Shoalhaven
Plan of Management		City Council
Lower Shoalhaven River	1990	NSW Dept of
Flood Study		Public Works
Shoalhaven River	2006	Shoalhaven
Entrance Management		City Council
Plan		
Shoalhaven Foreshore	2005	Shoalhaven
Reserves Policy		City Council
Draft Shoalhaven		Shoalhaven
Coastal Management		City Council
Plan		

11. SUGGESTED SPECIES LIST FOR FUTURE SITE REVEGETATION

OVERSTOREY TREES			
Botanical Common			
Acmena smithii	Lilli Pilli		
Banksia integrifolia	Coastal Banksia		
Banksia serrata	Saw Tooth Banksia		
Casuarina glauca	She Oak		
Eucalyptus botryoides	Bangalay Gum		
SHRUBS			
Botanical Common			
Acacia longifolia	Sydney Golden Wattle		
Acacia longifolia spp sophorae	Coastal Wattle		
Breynia oblongifolia	Coffee Bush		
Leptospermum laevigatum	vigatum Coastal Tea Tree		

Monotoca elliptica	Tree Broom Heath		
Notelaea longifolia	Mock Olive		
Pittosporum revolutum	Rough Pittospornum		
UNDERSTOREY (grasses, herbs, climbers)			
Botanical	Common		
Billardiera scandens	Apple dumpling vine		
Carex longebrachiata	Drooping Sedge		
Commelina cyanea	Native Wandering Jew		
Dianella caerulea var. caerulea	Native Blue Flax Lily		
Hardenbergia violacea	Wandering Postman		
Hibbertia scandens	Golden Guinea Flower		
Kennedia rubicunda	Dusty Coral Pea		
Lomandra longifolia	Matt Rush		
Microlaena stipoides var. stipoides	Weeping Grass		
Themeda australis	Kangaroo Grass		
Viola hederacea	Native Violet		

12. SITE WEED LIST

Noxious	Other	Control Method
Bitou Bush		Spray with 1:100 Glyphosate in winter or cut and paint
Blackberry		Spray with a selective herbicide
Lantana		Cut and paint (leave dead canes on site to break down)
	Asparagus Fern	Remove crown by manual digging and bag or spot spray with 1:100 Glyphosate + wetting agent
	Bridal Creeper	Spot spray with 1:100 Glyphosate
	Cape Ivy	Spot spray with 1:100 Glyphosate
	Kikuyu/Buffalo Grass	Spray with 1:100 Glyphosate in winter
	Lions Tail	Cut and paint (leave dead canes on site to break down
	Mother of Millions	Hand removal and bag all plants/remove from site or spot spray with a selective herbicide
	Turkey Rhubarb	Spot spray with 1:100 Glyphosate

ATTACHMENT: Group support and skill development needs. This information helps to identify gaps that may exist between what the group require to function effectively and what the group has available. This focuses on the group, *overall*, not individual members.

Tick one box only	We are absolute beginners – don't know a great deal	We know a bit – enough to get by most of the time	We know quite a lot – and we know when to seek help	There's probably not much more we can learn on this	Comments
OH&S – develop and					
follow risk assessment					
Develop and/ or monitor					
Action Plan					
Plant identification –					
local native plants					
Weed identification &					
control methods					
Bush regeneration					
methods					
Seed collection &					
propagation					
Group planning and					
decision making					
Managing neighbour					
relations					
Community education –					
schools, neighbours etc					
Volunteer/ group member					
recruitment					
Preparing grant applications					

List below the 10 most common plants that are indigenous to the area.	List below the 10 most common plants that are <i>not</i> indigenous to the area.
Can all of the group regular volunteers identify these? YES NO circle one	Can all of the group regular volunteers identify these? YES NO circle one
Bushcare Group Name Coordinator Name	