



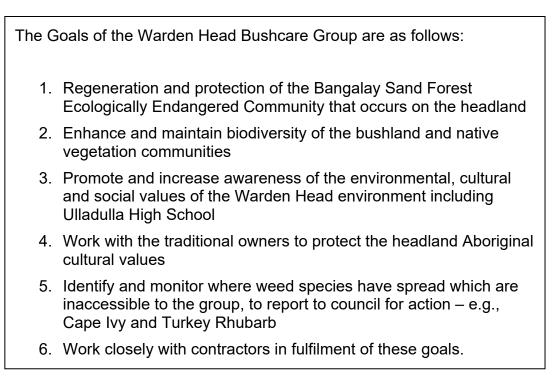
WARDEN HEAD BUSHCARE ACTION PLAN

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CONTACT INFORMATION

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Reserve Name:	Warden Head
Reserve No:	SUL936
Land Tenure:	Crown (Council as Trust Manager)

1. BUSHCARE GROUP GOALS



2. BUSHCARE GROUP ACHIEVEMENTS TO DATE

Successes/Goals/Actions achieved to date	Lessons learnt
Lantana Control	Contractor used for initial control with follow up by Bushcare Group
Planting near Dancing Grounds and east of gully to Lobster Jack's Beach	
Ongoing weed control on focussed patches of Dolichos Pea (<i>Dipogen lignosus</i>) and Lonicera japonica	Inaccessible areas needed to be managed by contractors
Opportunistic plantings in response to seasonal conditions where watering was not possible	
Continued participation of Macarthur Anglican School teams each year	This has been a good form of active community engagement, which has helped develop students' appreciation of coastal bushland and also contributed to the overall volunteer effort

3. WARDEN HEAD BUSHCARE GROUP ACTION PLAN MAP



4. SHOALHAVEN BUSHCARE GROUP ACTIVITIES TABLE (to be read in conjunction with above map)

Priority: H = High (started within 12 months); M = Medium (1-3 years); L = Low

GROUP ACTION	PRIORITY	METHOD	TIME
ZONE 1 – This zone is located around what is known as the "Da soccer oval. It is predominantly Bangalay Sand Forest which is Biodiversity Conservation Act 2016. Sweet Pittosporum (<i>Pittosp</i>	listed as an E	ndangered Ecological Community under	
Continue with follow-up control of Lantana using manual and chemical control concentrating on the areas where plantings have been done. Following priority of actions:	Н	Hand pull seedlings, spot-spray or cut and paint larger plants as per herbicide labels or Australian Pesticide and Veterinary Medicines Assn (APVMA) off-label permits	Ongoing
 a. Manual control of Lantana and herbaceous annual weeds around plantings. b. Manual and chemical control of exotic grasses in previously revegetated areas and edges c. Control of secondary weeds in areas where Lantana has been removed/controlled, with particular attention to: Turkey Rhubarb Dolichos Pea Easter Senna Fishbone Fern Formosan Lily Aristea eklonii d. Replacement plantings as required 	Н	Herbicide use as per product label or APVMA off-label permits Revegetate with species from attached planting list	Ongoing Autumn to early spring
Manual control of Japanese Honeysuckle patches	Н	Herbicide use per product label or APVMA off-label permits	Spring and summer

GROUP ACTION	PRIORITY	METHOD	TIME
Consult with the Ulladulla Aboriginal Land Council regarding gradual control/removal of patches of <i>Stephotaphrum</i> <i>secundatum</i> (Buffalo Grass) dominating the understory of the forest and revegetation with ground cover species in a patch/mosaic pattern	М	Council to spray out patches of exotic grass and Bushcare group to plant out	2019-22
Monitor the regeneration of the site by establishing photo points and vegetation condition monitoring plots. Establish a vegetation survey comparing areas where Sweet Pittosporum have been illegally removed compared to control areas	М	Council and Bushcare Group to establish a monitoring program and train volunteers to collect monitoring information	2019

GROUP ACTION	PRIORITY	METHOD	TIME
Zone 2 – This zone takes in the gully that runs into Lobster southern edge. There has been a lot of primary control of <i>La</i> weed occurring.			
Follow-up control of Lantana avoiding steeper sections of gullies	М	Hand pull seedlings, cut and paint, or spot spray larger plants per product label or APVMA off-label permits	On going
Council to control Lantana along steep edges of Lighthouse Oval and Bushcare group to plant out to provide a buffer edge for the site and where it is safe, steeper gullies.	М	Council to spray lantana. Once the density is down to a manageable level Bushcare group to revegetate using species from attached list	2019
Council to undertake weed control within the steep gully at Lobster Jacks Beach. Council and Bushcare group to monitor re-growth of Lantana, Turkey Rubarb and other weeds.	Н	As per product label or APVMA off- label permits	Spring/ Summer Ongoing
Control of secondary and other weeds including: • Turkey Rhubarb • Blue stars • Dolichos Pea • Formosan Lily • Easter Senna • Ground asparagus • Exotic palm seedlings	Н	As per product label or APVMA off- label permits	Ongoing

5. BUSHCARE GROUP WORKPLACE HEALTH AND SAFETY

New volunteers must be inducted in Shoalhaven City Councils corporate induction process and volunteers must comply with the Volunteer Induction Handbook.

Based on the activities included in this action plan, a new site hazard and risk assessment has been completed (Council document D18/369009). Volunteers are to be inducted on this revised risk assessment with the adoption of this plan. The 'site hazard and risk assessment' is to be revised as need be, for example, upon the identification of a new hazard, or of a new control measure for an existing hazard.

The following activities are managed by Council through the following documents. Volunteers must comply with these standards.

Activity	WHS documentation
Manual Handling	SCC Policy P15 Hazardous Manual Tasks
Chemical weed control	SCC Policy P11 Hazardous Chemicals; SCC Procedure SWI29 Herbicide Spraying; Safety Data Sheets and product labels for chemicals used
Tree Planting and watering	SWI103 Water Cart SWI93 Trailers – towing

6. COUNCIL SUPPORT

- a) Technical advice and training
- b) Tools and equipment
- c) Grant application and management support
- d) One Bushcare Support Trainer to assist the group on site for 3-4 hours per month
- e) Plants
- f) Herbicide
- g) Assistance with larger scale weed control, such as spraying Lantana and Buffalo Grass in zones
- h) Assistance and training in undertaking monitoring

7. POSSIBLE FUTURE FUNDING

ig source

8. REVIEW

This plan will be reviewed 6 years from its adoption but can be reviewed sooner if agreed.

9. REGIONAL MANAGEMENT PLANS OR STRATEGIES

Document	Year	Produced by
Generic Community Land Plan of Management - Natural Areas	2001	Shoalhaven City Council
Foreshore Reserves Policy	2005	Shoalhaven City Council
Warden Head Bush Regeneration Plan	2005	SCC/Proust Bushland Services
Bushcare/Parkcare Policy and Procedures	2018	Shoalhaven City Council

10. SUGGESTED SPECIES PLANTING LIST

OVERSTOREY TREES		
Botanical	Common	
Acmena smithii	Lilli Pilli	
Allocasuarina distyla	She-oak	
Allocasuarina littoralis	Black She-oak or Dahl-wah	
Banksia integrifolia	Coastal Banksia	
Banksia serrata	Old Man Banksia	
Casuarina glauca	Swamp Oak	
Corymbia gummifera	Red Bloodwood	
Eucalyptus botryoides	Bangalay	
	UBS	
Botanical	Common	
Acacia longifolia	Coast Wattle	
Acacia myrtifolia	Myrtle Wattle	
Acacia sophorae	Coast Wattle	
Acacia suaveolens	Sweet-scented Wattle	
Acacia terminalis	Sunshine Wattle	
Acacia ulicifolia	Prickly Moses	
Banksia ericifolia ssp. ericifolia	Heath-leaved Banksia	
Correa reflexa var. reflexa	Common Correa	
Dodonaea triquetra	Common Hop Bush	
Dracophyllum secundum	N/A	
Elaeocarpus reticulatus	Blueberry Ash	
Ficus coronata	Sandpaper Fig	
Goodenia ovata	Hop Goodenia	
Kunzea ambigua	Tick Bush	
Lambertia formosa	Mountain Devil	
Leptospermum laevigatum	Coastal Tea Tree	
Melaleuca armillaris ssp. armillaris	Hillock Bush	
Melaleuca hypericifolia	Scented Paperbark	
Melaleuca squarrosa	Paperbark	
Melaleuca thymifolia	Purple Mirbelia	
Monotoca eliptica	Tree Broom Heath	
Myroporum boninense	Boobialla	
Persoonia levis	Smooth Geebung	
Persoonia mollis ssp. caleyi	Geebung	
Pittosporum revolutum	Rough Pittosporum	
Pittosporum undulatum	Native Daphne	
Podocarpus spinulosus	Dwarf plum Pine	
Pultenaea daphnoides	Broad Bush Pea	
Rapanea variabilis	Mutton Wood	
Rhagodia candolleana	Seablite Berry	
Westringia fruticosa	Coast Rosemary	

UNDERSTOREY (grasses, herbs, climbers and climbers)		
Botanical	Common	
Hibbertia dentata	Twining Guinea Flower	
Hibbertia scandens	Golden Guinea Flower	
Hibbertia virgata ssp. virgata	Guinea Flower	
Isopogon anemonifolius	Drumsticks	
Kennedia prostrata	Running Postman	
Kennedia rubicunda	Dusky Coral Pea	
Pelargonium australe	Coastal Geranium	
Pimelea linifolia ssp. linifolia	Rice Flower	
Pultenaea daphnoides	Large Bush Pea	
Rhagodia candolleana	Seaberry or Coastal Saltbush	
Ricinocarpus pinifolius	Wedding Bush	
Rubus parvifolius	Native Raspberry	
Scaevola ramosissima	Snake or Fan Flower	
Tetragonia tetragonioides	Warrigal Greens	
Viola hederacea	Native Violet	
Zieria smithii	Sandfly Ziera	

11. SITE WEED LIST

Scientific Name	Common Name
Chrysanthemoides <i>monilifera</i> subsp	Bitou Bush
rotundata	
Cortaderia <i>selloana</i>	Pampas Grass
Lantana <i>camara</i>	Lantana
Rubus <i>fruiticosa</i>	Blackberry
Acetosa <i>sagittata</i>	Turkey Rhubarb
Aristea ecklonii	Blue Stars, African Aristea
Asparagus densifolius	Ground Asparagus Fern
Bidens <i>pilosa</i>	Cobblers Peg
Conzya species	Fleabane
Crocosmia x crossmiifolia	Montbretia
Dipogen lignosus	Dolichos Pea
Lilium formosanum	Tiger Lily
Lonicera japonica	Japanese Honeysuckle
Onopordum acanthium	Scotch Thistle
Passiflora edulis	Passionfruit
Phytolacca octandra	Ink Weed
Senna pendula spp pendula	Winter Senna
Sida rhombifolia	Paddy Lucerne
Stenotaphrum secundatum	Buffalo Grass

12. BUSHCARE SITE SPECIES LIST

OVERSTOREY TREES		
Botanical	Common	
Acmena smithii	Lilli Pilli	
Allocasuarina distyla	She-oak	
Allocasuarina littoralis	Black She-oak or Dahl-wah	
Banksia integrifolia	Coastal Banksia	
Banksia serrata	Old Man Banksia	
Casuarina glauca	Swamp Oak	
Corymbia gummifera	Red Bloodwood	
Eucalyptus botryoides	Bangalay	
Glochidion ferdinandii	Cheese Tree	

SHRUBS		
Botanical	Common	
Acacia terminalis	Sunshine Wattle	
Acacia longifolia	Coast Wattle	
Acacia myrtifolia	Myrtle Wattle	
Acacia sophorae	Coast Wattle	
Acacia suaveolens	Sweet-scented Wattle	
Acacia ulicifolia	Prickly Moses	
Amperea xiphoclada var. papillata	Broom Spurge	
Aotus ericoides	Aotus	
Atriplex cinerea	Grey Saltbush	
Baeckea imbricata	Heath-myrtle	
Banksia ericifolia ssp. ericifolia	Heath-leaved Banksia	
Bossiaea ensata	Small Leafless Bossiaea	
Bossiaea heterophylla	Variable Bossiaea	
Bossiaea prostrata	N/A	
Brachyloma daphnoides ssp.		
daphnoides	Daphne Heath	
Breynia oblongifolia	Native Privet	
Conospermum ellipticum	Smoke Bush or Cone-seed	
Convolvulus erubescens	Australian or Blushing Bindweed	
Correa reflexa var. reflexa	Common Correa	
Dampiera stricta	N/A	
Dillwynia floribunda var. floribunda	Parrot Pea	
Dillwynia glaberrina	Parrot Pea	
Dodonaea triquetra	Common Hop Bush	
Dracophyllum secundum	N/A	
Elaeocarpus reticulatus	Blueberry Ash	
Ficus coronata	Sandpaper Fig	
Gahnia sieberana	Red-fruited Saw Sedge	
Gonocarpus teucrioides	Germander Raspwort	
Goodenia ovata	Hop Goodenia	
Kunzea ambigua	Tick Bush	

SHRUBS		
Botanical	Common	
Lambertia formosa	Mountain Devil	
Leptospermum laevigatum	Coastal Tea Tree	
Leptospermum morrisonii	Tea-tree	
Leucopogon juniperinus	Bearded Heath	
Lomatia ilicifolia	Native Holly	
Macrozamia communis	Burrawang	
Melaleuca armillaris ssp. armillaris	Hillock Bush	
Melaleuca hypericifolia	Scented Paperbark	
Melaleuca squarrosa	Scented Paperbark	
Melaleuca thymifolia	Purple Mirbelia	
Mirbelia speciosa ssp. speciosa	Tree Broom Heath	
Monotoca eliptica	Tree Broom Heath	
Myroporum boninense	Boobialla	
Persoonia levis	Smooth Geebung	
Persoonia mollis ssp. caleyi	Geebung	
Pittosporum revolutum	Rough Pittosporum	
Pittosporum undulatum	Native Daphne	
Podocarpus spinulosus	Plum Pine	
Pultenaea daphnoides	Bush Pea	
Rapanea variabilis	Mutton Wood	
Rhagodia candolleana	Seablite Berry	
Westringia fruticosa	Coast Rosemary	

UNDERSTOREY (grasses, herbs, orchids)	
Botanical	Common
Actinotus helianthi	Fannel Flower
Actinotus minor	Flannel Flower - Minor
Anisopogon avenaceus	Oat Speargrass
Austrodanthonia tenuior	Wallaby Grass
Blechnum ambiguum	Fern
Dianella caerulea var. caerulea	Blue Flax Lily
Dianella caerulea var. producta	Blue Flax Lily
Dianella congesta	Coastal Flax Lily
Dichondra repens	Kidney Weed
	Spotted Double Tail or Leopard
Diuris maculata	Orchid
Gleichenia dicarpa	Pouched Coral Fern
Helichrysum elatum	White Paper Daisy
Hibbertia aspera ssp. aspera	Rough Guinea Flower
Hibbertia cistiflora ssp. cistiflora	Guinea Flower
Hibbertia dentata	Twining Guinea Flower
Hibbertia diffusa	Guinea Flower
Hibbertia monogyna	Leafy Guinea Flower
Hibbertia scandens	Golden Guinea Flower
Hibbertia virgata ssp. virgata	Guinea Flower
Hybanthus monopetalus	Spade Flowers

UNDERSTOREY (grasses, herbs, orchids)	
Botanical	Common
	Spade Flowers, Ladies Slipper, or
Hybanthus vernonii ssp. vernonii	Slender Violet
Hypoxis hygrometrica ssp.	
hygrometrica	Yellow-stars
Isolepsis inundatus	Sedge
Isolepsis nodosa	Sword Sedge
Isopogon anemonifolius	Drumsticks
Kennedia prostrata	Running Postman
Kennedia rubicunda	Dusky Coral Pea
Lagenifera stipitata	N/A
Lepidosperma concavuum	Native Flax
Linum marginale	Native Flax
Lomandra filiformis ssp. filiformis	Mat rush
Lomandra glauca ssp. glauca	Pale Mat Rush
Lomandra multiflora	Fish Bones
Lomandra obliqua	Leafy Purple Flags
Opercularia aspera	Thin Stinkweed
Opercularia diphylla	Stinkweed
Oxalis rubens	N/A
Oxylobium cordifolium	Heart-leaved Shaggy Pea
Parsonsia straminea	Monkey Rope or Common Silkpod
Patersonia glabrata	Silky Purple Flag
Patersonia sericea	Wooly Frogmouth
Pelargonium australe	Coastal Geranium
Philydrum lanuginosum	Native Reed or Thatch Reed
Phragmites australe	Sedge
Pimelea linifolia ssp. linifolia	Rice Flower
Platysace lanceolata	Native Parsnip (narrow-leaved form)
Plectranthus parviflorus	Cockspur Flowers
Poranthera corymbosa	N/A
Pratia purpurascens	White Root
Pteridium esculentum	Bracken
Ptilothrix deusta	Lilac Lily
Pultenaea daphnoides	Large Bush Pea
Rhagodia candolleana ssp.	
candolleana	Seaberry or Coastal Saltbush
Ricinocarpus pinifolius	Wedding Bush
Rubus parvifolius	Native Raspberry
Rulingia hermaniifolia	Wrinkled Kerrawang
Scaevola ramosissima	Snake or Fan Flower
Schelhammera undulata	Bog-rush
Schoenus brevifolius	Native Sarsaparilla
Selaginella uliginosa Senecio diaschides	Swamp Selaginella N/A
Senecio hispidulus var. hispidulus	Rough Groundsel
Senecio minimus var. minimus	Saw groundsel
Solanum americanum	Glossy Nightshade
Solanum stelligerum	Devil's Needles

UNDERSTOREY (grasses, herbs, orchids)	
Botanical	Common
Spinifex sericeus	White Lily
Stylidium graminifolium	Trigger Plant
Tetragonia tetragonioides	Warrigal Greens
Thelionema umbellatum	Kangaroo Grass
Themeda australis	Fringe Lily
Thysanotus tuberosus	Yellow Rush-lily
Viola hederacea	Native Violet
Xanthosia pilosa	Woolley Xanthosia
Zieria pilosa	Hairy Zieria
Zieria smithii	Sandfly Ziera

UNDERSTOREY (vines & climbers)	
Botanical	Common
Billardiera scandens	Apple Dumpling
Carpobrotus glaucescens	Pigface
Cassytha glabella	Slender Devil's Twine
Cassytha pubescens	Common Devil's Twine
Caustis recurvata var. recurvata	Old Man's Beard or Curly Cane
Glycine clandestina	Love Creeper
Glycine tabacina	Love Creeper
Goodenia ovata	Hop-Goodenia
Hardenbergia violacea	False Sarsaparilla
Hibbertia scandens	Native Guinea Flower
Stephania japonica var. discolor	Stephania or Snake Vine