



BAWLEY POINT BUSHCARE GROUP ACTION PLAN

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RESERVE INFORMATION

Reserves:	Willinga Headland, Bawley Headland, Bawley Point Wetland, Watts Reserve, Malibu Drive and Gannet Beach
Reserve Numbers:	SBP886, SBP860, SBP870 and SBP887
Land Tenure:	Crown and Council Community Land
Community Land:	Natural Area Wetland and Bushland; Park

1. BUSHCARE GROUP GOALS

The goals of the Bawley Point Bushcare Group Action Plan are to:

1. Continue to regenerate the public foreshore reserves in and around the village of Bawley Point by using environmentally and culturally sensitive methods that maximise the natural regeneration potential of the bushland and provide resilience, with particular focus on areas that show a high diversity of native species and relatively low levels of weed infestation.
2. Foster and promote these natural areas as a valuable community resource and recruit new volunteers to be part of the Bushcare group, thereby raising awareness of biodiversity in and around Bawley Point and the impact of weeds on these areas.

2. SITE ACHIEVEMENTS TO DATE

Actions	Lessons Learnt
Reduction in weed density around Bawley Point.	Constant maintenance is required to stop reinfestation
Condition of bushland has improved and some native species have had the opportunity to regenerate.	Reducing edge effects is important to stop spread of certain weed species
Planting in vacant niches where weeds have been removed has enriched plant diversity and fauna habitat in reserves	Planting needs to be done according to season and rainfall. In some places, plants need extra guarding to limit being eaten by animals (e.g., wallabies).

3. BAWLEY POINT BUSHCARE GROUP ACTION PLAN MAPS



Bawley Point Bushcare Group Areas

Please note, the southern side of Juwin, south of Harrington Cr, is included in the plan for the Friends of Juwin Head volunteer group



Area 1: Crown reserves south of Willinga Lake entrance



Area 2 Bawley Headland




Area 3 Bawley wetland and Cormorant Beach



Area 4 Gannet Beach to Murramarang Beach

4. SHOALHAVEN BUSHCARE GROUP ACTIVITIES TABLE

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

Area 1: Crown reserves south of Willinga Lake entrance			
GROUP ACTION	PRIORITY	METHOD	TIMING
1. Weed control – Monitor and control weed species primarily on the urban interface in this area: <i>Dipogon lignosus</i> (Dolichos pea), <i>Lonicera japonica</i> (Japanese honeysuckle), <i>Senna pendula</i> (Easter Senna), <i>Nephrolepis cordifolia</i> (fishbone fern), <i>Thunbergia alata</i> (black eyed Susan), <i>Crassula multicava</i> (Crassula), <i>Lillium formosanum</i> (Formosan Lily), <i>Ochna serrulata</i> (Micky Mouse plant), <i>Chlorophytum comosum</i> (spider plant), <i>Aristea ecklonii</i> (blue stars), <i>Stenotaphrum secundatum</i> (buffalo grass) <i>Crocsmia</i> sp. (montbretia) <i>Asparagus aethiopicus</i> (ground asparagus), <i>Hakea salicifolia</i> (willow-leafed Hakea)	H	Manual weed control or herbicide use as per product labels or Australian Pesticides and Vet Medicines Authority permits.	As required
2. Post-2019 bushfire monitoring	H	Establish photo points to monitor changes in vegetation and identify plant species that grow.	Annually
3. Liaise with adjacent landholders regarding invasive weed species and how to remove these from domestic gardens and properly dispose of propagules.	H	Council and Bushcare coordinator to identify key contacts and undertake communications.	As required

Area 1: Crown reserves south of Willinga Lake entrance



GROUP ACTION	PRIORITY	METHOD	TIMING
4. Buffer or edge planting with 'understory' (see Section 10) endemic species as required.	M	Source local provenance stock – e.g., from Milton Ulladulla Landcare Nursery.	As required
5. Investigate increasing the diversity of vegetation at Willinga Point	M	Assess whether Sweet Pittosporum is affecting diversity and if so, seek required approvals to undertake selective replacement with other indigenous shrub and tree species.	2022-26

Area 2: Bawley Headland



GROUP ACTION	PRIORITY	METHOD	TIMEFRAME
<p>1. Monitor and control weed species around Bawley Headland. Species include <i>Lilium formosanum</i> (Formosan lily), <i>Bryophyllum delagoense</i> (mother of millions) and <i>Rubus fruticosus</i> (blackberry)</p>	H	<p>Manual weed control or herbicide use as per product labels or APVMA permits.</p> <p>Council Bush Regenerator crew to assist with control</p>	Ongoing
<p>2. Control and contain weed species around old dwelling near boat ramp <i>Dipogon lignosus</i> (Dipogon), <i>Anredera cordifolia</i> (Madiera vine), <i>Leonurus sibiricus</i> (lion's tail) and <i>Rubus fruticosus</i> (blackberry)</p>	H	<p>Manual weed control or herbicide use as per product labels or APVMA permits.</p> <p>Council Bush Regenerator crew to assist with control</p>	Ongoing
<p>3. Monitor seasonal changes and inform Council's Bushcare Coordinator if more assistance is required regarding weed control</p>	H	<p>Document, report and monitor any new weed infestations</p>	Quarterly

Area 3: Bawley wetland and Cormorant Beach



GROUP ACTION	PRIORITY	METHOD	TIMEFRAME
1. Maintain emerging exotic weed species to low levels throughout resilient areas from Terragong Avenue, north to Tingira Drive	H	Manual weed control or herbicide use as per product labels or APVMA permits.	Ongoing
2. Monitor reserves urban edges around Murramarang Rd, Lurnea Ave, Tingira Dr and Terragong Ave and alert Council's Bushcare Coordinator if extra spraying by bush regeneration staff is required. Weeds to monitor include: <i>Anredera cordifolia</i> (Madiera vine), <i>Acetosa sagittata</i> (turkey rhubarb), <i>Senecio macroglossus</i> (Natal ivy), <i>Tradescantia fluminensis</i> (wandering trad), <i>Rubus fruiticosus</i> (blackberry) <i>Jasminum ployanthum</i> (jasmine) <i>Senna pendula</i> (Easter Senna) and <i>Bambusa</i> spp. (bamboo), <i>Asparagus aethiopicus</i> (ground Asparagus), <i>Solanum mauritianum</i> (Wild Tobacco Tree)	H	Document, report and monitor any new weed infestations and/or significant increases Council Bush Regeneration crew to assist with maintenance weed spraying.	Ongoing

Area 3: Bawley wetland and Cormorant Beach



GROUP ACTION	PRIORITY	METHOD	TIMEFRAME
<p>3. Weed control (maintenance). Weeds species incl- <i>Asparagus aethiopicus</i> (ground Asparagus), <i>Zantedeschia stricta</i> (arum lily), <i>Senna pendula</i> (Easter Senna), <i>Ochna serrulata</i> (Mickey Mouse plant), <i>Stenotaphrum secundatum</i> (buffalo grass), <i>Senecio macroglossus</i> (Natal ivy), <i>Tradescantia fluminescens</i> (Wandering trad), <i>Vinca major</i> (periwinkle), <i>Plectranthus verticillatus</i> (creeping Charlie), <i>Phoenix canariensis</i> (Canary Island date palm) seedlings, <i>Chlorophytum comosum</i> (spider plant) and <i>Chrysanthemoides monilifera</i> (boneseed and bitou bush)</p>	H	Manual weed control or herbicide use as per product labels or APVMA permits.	Ongoing
<p>4. Native species enrichment, fortification and stabilisation planting in spare niches particularly where weeds have been removed, within areas of Endangered Ecological Communities (EEC; Appendix 1) between Terragong Ave and Tingira Dr.</p>	H	Source local provenance stock from Milton Ulladulla Landcare Nursery, stake and guard plants to limit being eaten by animals (e.g., wallabies)	As required
<p>5. Monitor and control <i>Bryophyllum delagoese</i> (mother of millions) in smaller patches amongst natives where handweeding can be undertaken.</p>	H	Hand removal and bagging all propagules, dispose of in rubbish, not compost. Council Bush Regeneration staff assistance	

Area 4: Gannet Beach to Murramarang Beach



GROUP ACTION	PRIORITY	METHOD	TIMEFRAME
1. Maintain emerging exotic weed species to low levels throughout resilient areas of Bangalay Sand Forest (Endangered Ecological Community) east of Beachglade Place.	H	Manual weed control or herbicide use as per product labels or APVMA permits.	As required
2. Maintenance weed control of species including <i>Asparagus aethiopicus</i> (ground Asparagus), <i>Senna pendula</i> (Easter Senna), <i>Ochna serrulata</i> (Mickey Mouse plant), <i>Stenotaphrum secundatum</i> (buffalo grass), <i>Polygala myrtifolia</i> (milkwort Polygala), <i>Chrysanthemoides monilifera</i> (boneseed and bitou bush), <i>Lilium formosanum</i> (Formosan lily), <i>Crocasmia sp.</i> (montbretia), <i>Myrsiphyllum asparagoides</i> (bridal veil creeper), <i>Bryophyllum delagoense</i> (mother of millions), <i>Osteospermum fruiticosum</i> (sailor boy daisy) and <i>Sporobolus africanus</i> (Paramatta grass)	H	Manual weed control or herbicide use as per product labels or APVMA permits.	Ongoing

Area 4: Gannet Beach to Murramarang Beach



GROUP ACTION	PRIORITY	METHOD	TIMEFRAME
3. Monitor <i>Juncus acutus</i> (spiny rush) in the creekline near North Haven Avenue and alert Bushcare Coordinator of further outbreaks	H	Council Bush regenerator crew or contractor to control <i>Juncus acutus</i> when plant is actively growing	Seasonally
4. Plant out areas where weeds have been removed with a variety of native species to protect soils and stabilise areas.	M	Source local provenance stock: Understorey (see Section 10) species are to be used, except potentially within areas of Endangered Ecological Communities where taller vegetation already stands (Appendix 1).	As required

5. BUSHCARE GROUP WORKPLACE HEALTH AND SAFETY

New volunteers must be inducted in Shoalhaven City Council's corporate induction process and volunteers must complete a safety induction (Volunteer's Your Duty of Care Responsibilities).

<https://www.shoalhaven.nsw.gov.au/Services/Volunteering>

Based on the activities included in this action plan, a new site hazard and risk assessment will be completed. 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.

6. COUNCIL SUPPORT

- Supply tools, herbicide and materials within the constraints of budget
- Training and technical advice
- Administration support
- Assistance with grant applications, administration and management.
- Assistance with events
- Assistance from Council's Bush Regenerator staff as resources allow, as described in the tables above

7. POSSIBLE FUTURE FUNDING

The following projects will be considered as funding opportunities become available:

Project
Funding to be sought opportunistically to assist with weed control and community engagement as outlined in the activities of this plan.
Funding assistance would be particularly useful to undertake the control of coastal morning glory (<i>Ipomoea cairica</i>) and mother of millions (<i>Bryophyllum delagoense</i>) around south Gannet Beach and Bawley Point.

8. REVIEW

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

9. REGIONAL MANAGEMENT PLANS OR STRATEGIES

Name of document	Year it was produced	Produced by
Bushcare/Parkcare Policy	2018	Shoalhaven City Council
Generic Community Land Plan of Management - Natural Areas	Revised 2016	Shoalhaven City Council
South East Local Strategic Plan 2016-2021	2016	South East Local Land Services
Foreshore Reserves Policy	2005	Shoalhaven City Council
Plan of Management, Gannet Beach Reserve, Bawley Point	1996	Shoalhaven City Council

10. RECOMMENDED REVEGETATION SPECIES

OVERSTOREY (trees)	
Botanical	Common
<i>Allocasuarina littoralis</i>	Black she-oak
<i>Allocasuarina distyla</i>	Scrub she-oak
<i>Banksia integrifolia</i>	Coastal Banksia
<i>Banksia serrata</i>	Old Man Banksia
<i>Casuarina glauca</i>	Swamp she-oak
MID-STOREY (small trees, shrubs, etc)	
Botanical	Common
<i>Acacia longifolia</i> spp <i>sophorae</i>	Coastal wattle
<i>Acacia longifolia</i> spp. <i>longifolia</i>	Sydney golden wattle
<i>Acacia mearnsii</i>	Black wattle
<i>Acacia Suaveolens</i>	Sweet wattle
<i>Atriplex cinerea</i>	Grey saltbush
<i>Correa alba</i>	White Correa
<i>Glochidion ferdinandi</i>	Cheese tree
<i>Hakea teretifolia</i>	Dagger Hakea
<i>Kunzea ambigua</i>	Tick bush
<i>Leptospermum laevigatum</i>	Coastal tea tree
<i>Leptospermum polygalifolium</i>	Tantoon
<i>Melaleuca armillaris</i>	Bracelet honey myrtle
<i>Melaleuca ericifolia</i>	Swamp paperbark
<i>Melaleuca hypericifolia</i>	Hillock bush
<i>Melaleuca linariifolia</i>	Flax-leaved paperbark
<i>Melaleuca squarrosa</i>	Scented paperbark
<i>Myoporum acuminatum</i>	Boobiella
<i>Myoporum boninense</i>	Boobiella
<i>Pittosporum revolutum</i>	Rough Pittosporum

<i>Rhagodia candolleana</i>	Seaberry saltbush
<i>Synoum glandulosum</i>	Bastard rosewood
<i>Westringia fruticosa</i>	Coastal rosemary
UNDERSTOREY (grasses, herbs, climbers)	
Botanical	Common
<i>Billardiera scandens</i>	Hairy apple berry
<i>Carpobrotus glaucescens</i>	Pigface
<i>Clematis aristata</i>	Old man's beard
<i>Dianella caerulea</i>	Blue flax lily
<i>Eustrephus latifolius</i>	Wombat vine
<i>Ficinia nodosa</i>	Knobbly club-rush
<i>Gahnia melanocarpa</i>	Black-fruit saw-sedge
<i>Gahnia sieberiana</i>	Red-fruit saw sedge
<i>Goodenia ovata</i>	Native hops
<i>Hibbertia scandens</i>	Climbing Guinea flower
<i>Juncus kraussii</i>	Club rush
<i>Juncus usitatus</i>	Common rush
<i>Lomandra longifolia</i>	Mat rush
<i>Microlaena stipoides</i>	Weeping grass
<i>Pandorea pandorana</i>	Wonga wonga vine
<i>Poa labillardieri</i>	Tussock grass
<i>Themeda triandra</i>	Kangaroo grass
<i>Viola hederacea</i>	Native violet

11. BUSHCARE SITE WEED LIST

The following weeds have been recorded on the site

Botanical	Common
<i>Acetosa sagittata</i>	Turkey rhubarb
<i>Agapanthus praecox</i>	Agapanthus
<i>Aloe spp.</i>	Aloe
<i>Anredera cordifolia</i>	Madiera vine
<i>Asparagus aethiopicus</i>	Asparagus fern
<i>Asparagus asparagoides</i>	Bridal veil creeper
<i>Asparagus scandens</i>	Climbing asparagus fern
<i>Aristea ecklonii</i>	Blue stars
<i>Agave americana</i>	Century plant
<i>Acacia saligna</i>	Golden wreath wattle
<i>Bidens ssp.</i>	Cobblers pegs
<i>Bryophyllum delagoense</i>	Mother of millions
<i>Canna indica</i>	Canna lily
<i>Chrysanthemoides monilifera subsp monilifera</i>	Boneseed
<i>Chrysanthemoides monilifera subsp rotundata</i>	Bitou bush
<i>Crassula sarmentosa</i>	Crassula
<i>Crassula multicava</i>	Shade Crassula
<i>Crocsmia x crocosmiiflora</i>	Montbretia
<i>Chlorophytum comosum</i>	Spider plant
<i>Conyza albida</i>	Fleabane
<i>Coprosma repens</i>	Mirror bush
<i>Delairea odorata</i>	Cape ivy
<i>Dipogon lignosus</i>	Dolichos pea
<i>Euphorbia paralias</i>	Sea spurge
<i>Gazania rigens</i>	Gazania, treasure flower
<i>Hakea salicifolia</i>	Willow-leafed Hakea

Botanical	Common
<i>Hedera helix</i>	English ivy
<i>Ipomoea cairica</i>	Coastal morning glory
<i>Lagunaria patersoniae</i>	Norfolk Island hibiscus
<i>Lilium formosanum</i>	Formosan lily
<i>Lonicera japonica</i>	Honeysuckle
<i>Juncus acutus</i>	Spiny rush
<i>Jasminum polyanthum</i>	White jasmine
<i>Nephrolepis cordifolia</i>	Fishbone fern
<i>Nerium oleander</i>	Oleander
<i>Ochna serrulate</i>	Micky mouse plant
<i>Osteospermum fruticosum</i>	Sailor boy daisy
<i>Oxalis pes-caprae</i>	Oxalis
<i>Olea europaea subsp. Africana</i>	African olive
<i>Passiflora caerulea</i>	Blue passion flower
<i>Passiflora edulis</i>	Passionfruit
<i>Pelargonium quercifolium</i>	South African Geranium
<i>Pennisetum clandestinum</i>	Kikuyu
<i>Plectranthus verticillatus</i>	Creeping Charlie
<i>Paspalum dilatatum</i>	Paspalum
<i>Polygala myrtifolia</i>	Myrtle leaf milkwort
<i>Phytolacca octandra</i>	Inkweed
<i>Physalis peruviana</i>	Cape gooseberry
<i>Phoenix canariensis seedlings</i>	Canary Islands date palm
<i>Rubus fruticosus</i>	Blackberry
<i>Senna multiglandulosa</i>	Downy Senna
<i>Senna pendula var: glabrata</i>	Easter Senna
<i>Senna x floribunda,</i>	Senna
<i>Stenotaphrum secundatum</i>	Buffalo grass
<i>Senecio macroglossus</i>	Natal ivy

Botanical	Common
<i>Senecio angulatus</i>	Creeping groundsel
<i>Solanum mauritianum</i>	Tobacco bush
<i>Senecio madagascariensis</i>	Fireweed
<i>Thunbergia alata</i>	Black eyed Susan
<i>Tradescantia fluminescens</i>	Wandering trad
<i>Vinca major</i>	Periwinkle
<i>Zantedeschia stricta</i>	Arum lily

12. BUSHCARE SITE SPECIES LIST

The following endemic plant species have been recorded on the sites

Scientific Name	Common Name
<i>Acacia longifolia</i> subsp. <i>longifolia</i>	Sydney golden wattle
<i>Acacia longifolia</i> subsp. <i>sophorae</i>	Coast wattle
<i>Acacia mearnsii</i>	Black wattle
<i>Allocasuarina littoralis</i>	Black she-oak
<i>Banksia integrifolia</i> subsp. <i>integrifolia</i>	Coast banksia
<i>Baumea articulata</i>	Jointed twig-rush
<i>Billardiera scandens</i>	Apple dumpling
<i>Breynia oblongifolia</i>	Coffee bush
<i>Carex appressa</i>	Tall sedge
<i>Carex breviculmis</i>	Short-stem sedge
<i>Carpobrotus glaucescens</i>	Pigface
<i>Casuarina glauca</i>	Swamp she-oak
<i>Clerodendrum tomentosum</i>	Hairy Clerodendrum
<i>Commelina cyanea</i>	Scurvy weed
<i>Correa alba</i>	White Correa
<i>Corymbia maculata</i>	Spotted gum
<i>Clematis glycinoides</i>	Old man's beard
<i>Cryptostylis erecta</i>	Bonnet orchid
<i>Desmodium varians</i>	Slender tick-trefoil
<i>Dianella caerulea</i>	Blue flax lily
<i>Dichondra repens</i>	Kidney weed
<i>Dipodium punctatum</i>	Hyacinth orchid
<i>Entolasia marginata</i>	Bordered panic
<i>Entolasia stricta</i>	Wiry panic
<i>Eucalyptus botryoides</i>	Bangalay
<i>Eucalyptus globoidea</i>	White stringybark
<i>Eustrephus latifolius</i>	Wombat berry
<i>Exocarpus cupressiformis</i>	Cherry ballard
<i>Ficina nodosa</i>	Knobby club rush
<i>Gahnia clarkei</i>	Tall saw-sedge
<i>Gahnia sieberiana</i>	Red-fruit saw-sedge
<i>Geranium homeanum</i>	Northern cranesbill
<i>Glochidion ferdinandi</i> var. <i>ferdinandi</i>	Cheese tree
<i>Glycine microphylla</i>	Small-leaf Glycine
<i>Glycine tabacina</i>	Purple glycine
<i>Hardenbergia violacae</i>	Happy wanderer
<i>Hibbertia linearis</i>	Showy guinea flower
<i>Hibbertia scandens</i>	Climbing Guinea flower
<i>Homalanthus populifolius</i>	Bleeding heart
<i>Hydrocotyle laxiflora</i>	Stinking pennywort
<i>Imperata cylindrica</i>	Blady grass
<i>Juncus continuus</i>	a rush

Scientific Name	Common Name
<i>Juncus homalocaulis</i>	Wiry rush
<i>Juncus kraussii</i> subsp. <i>australiensis</i>	Sea rush
<i>Juncus vaginatus</i>	Clustered rush
<i>Lachnagrostis filiformis</i>	Blown grass
<i>Landoltia punctata</i>	a duckweed
<i>Leptospernum laevigatum</i>	Coastal tea tree
<i>Leucopogon juniperinus</i>	Long flower beard-heath
<i>Leucopogon parviflorus</i>	Coast beard-heath
<i>Lobelia purpurascens</i>	Whiteroot
<i>Lomandra longifolia</i>	Spinyhead matrush
<i>Melaleuca armillaris</i> subsp. <i>armillaris</i>	Giant honey-myrtle
<i>Melaleuca ericifolia</i>	Swamp paperbark
<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping grass
<i>Microtis parviflora</i>	Slender mignonette orchid
<i>Monotoca elliptica</i>	Tree broom-heath
<i>Myoporum acuminatum</i>	Boobialla
<i>Myoporum boninense</i>	Boobialla
<i>Myriophyllum simulans</i>	Water milfoil
<i>Notealea longifolia</i>	Mock olive
<i>Oplismenus aemulus</i>	Basket grass, wavy beard grass
<i>Oplismenus imbecillis</i>	Creeping beard grass
<i>Ornduffia reniformis</i>	Running marsh-flower
<i>Oxalis perennans</i>	Native sorrel
<i>Oxalis rubens</i>	Oxalis
<i>Ozothamnus argophyllus</i>	Spicy everlasting
<i>Ozothamnus diosmifolius</i>	White dogwood
<i>Panicum effusum</i>	Branched panic
<i>Parsonsia straminea</i>	Common silkpod
<i>Paspalidium distans</i>	Spreading panic grass
<i>Pimelea linifolia</i>	Slender rice flower
<i>Pittosporum undulatum</i>	Sweet Pittosporum
<i>Pittosporum revolutum</i>	Rough fruited Pittosporum
<i>Plantago hispida</i>	Hairy plantain
<i>Plectranthus parviflorus</i>	Cockspur flower
<i>Poa cheelii</i>	A grass
<i>Pteridium esculentum</i>	Bracken fern, bracken
<i>Sarcopetalum harveyanum</i>	Pearl vine
<i>Scaevola calendulacea</i>	Dune fan flower
<i>Schelhammera undulatum</i>	Lilac lily
<i>Selliera radicans</i>	Shiny swamp-mat
<i>Senecio linearifolius</i>	Fireweed groundsel
<i>Sphaeromorphaea australis</i>	Spreading nut-heads
<i>Spinifex sericeus</i>	Beach Spinifex
<i>Sporobolus virginicus</i>	Coastal rat-tail Grass
<i>Stephania japonica</i> var. <i>discolor</i>	Snake vine

Scientific Name	Common Name
<i>Syncarpia glomulifera subsp. glomulifera</i>	Turpentine
<i>Tetragonia tetragonioides</i>	Warrigal green
<i>Themeda triandra</i>	Kangaroo grass
<i>Tricoryne elatior</i>	Yellow rush-lily
<i>Tylophora barbata</i>	Forest bindweed
<i>Viola hederacea</i>	Ivy-leaf violet
<i>Westringia fruticosa</i>	Native rosemary
<i>Xanthorrhoea sp.</i>	a grass tree

