



MOLLYMOOK BUSHCARE GROUP ACTION PLAN – REVIEW 2016

Document Number: D15/285913 • Adopted: 11/10/2016 • Minute Number: MIN16.772

File: 26281E • Produced By: Planning & Development Services Group

Review Date: 11/10/2019

CONTACT INFORMATION

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Email:hepburnfj@bigpond.comReserve Name:Mitchell Parade ReserveReserve Number:SMM808 & SMM809Land Tenure:SCC & Crown Land

Comm. Land Type: Natural Area – Bushland & Foreshore

1. BUSHCARE GROUP GOALS

The goals of the Mollymook Bushcare Group are as follows:

- 1. Work with Shoalhaven City Council to protect and regenerate the Bannister Head SEPP 26 Littoral rainforest in and around the northern parts of Mollymook Beach.
- 2. Raise awareness of local residents regarding the biodiversity values of the remnant patch of littoral rainforest.
- 3. Work with Shoalhaven City Council to let local householders know how they can help look after the Littoral Rainforest by minimising negative impacts such as garden waste dumping and growing known invasive/ 'garden escape' plants.
- Continue to seek further funding from local, state and federal governments to employ contractors to control weeds on steep slopes that are too dangerous for volunteers.

2. BUSHCARE GROUP ACHEIVEMENTS TO DATE – (What successes has your Bushcare Group achieved in relation to your achieving the goals and actions in your current Bushcare Group Action Plan and what lessons or new skills/knowledge have you learnt from these achievements?)

Successes/Goals/Actions achieved to date	Lessons learnt
Restoration of 7,353 square metres of Littoral Rainforest on	The importance of follow up maintenance weed control is
Bannister Headland that is listed in NSW State Environmental	vital in reducing the risk of re-infestation or new outbreaks of
Planning Policy 26.	weeds.
On-going weed control around Bannister Headland public	As above
reserve.	
Restoration of 3,216 square metres of Littoral Coastal Vine	The area is very steep with erodible coastal cliffs. Due to
Thickets of Eastern Australia that is listed as an Endangered	safety concerns following landslips the Bushcare Group
Ecological Community under the Australian Environmental	have withdrawn from this area.
Protection and Biodiversity Conservation Act 1999 at the	
northern end of Mollymook Beach.	
Planting of 500 trees, shrubs and ground covers around and in	Only plant in Autumn and Winter.
the vegetation remnants to protect and act as a buffer.	
On-going face to face awareness raising activities with the local	The face to face contact has been the most valuable
community which includes delivery of education materials on the	and effective form of environmental education.
ecological significance of the rainforest.	
Talking to other interested organisations.	

3. 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
AREA 1 Jones Beach (see map 4) NOTE: Bushcare group to only work on moderate slopes. CURENT AND EXISTING ACTIONS 1. Periodic monitoring by group for control of noxious and environmental weeds on moderate slopes. 2. Report noxious and environmental weed infestations to Council on steeper slopes in the following priority species: a. Lantana camara (Lantana) b. Chrysanthemoides monilifera ssp monilifera (Boneseed) c. Chrysanthemoides monilifera ssp rotunda (Bitou Bush)	1. M 2. M	1. Bushcare Group to monitor and undertake manual and chemical control of weeds as per best management control techniques for each weed species. 2. Bushcare Group to monitor and report to Council.	 Ongoing Ongoing

GROUP ACTION (these should relate to your project description)	PRIORITY	METHOD	TIME
AREA 2 Bannister Headland – Littoral Rainforest (see map 5) NOTE: Bushcare group to only work on moderate slopes. CURRENT AND EXISTING ACTIONS 1. On-going control of environmental and noxious weeds throughout the SEPP 26 Littoral Rainforest targeting the following weed species: a. Lantana camara (Lantana) b. Chrysanthemoides monilifera ssp monilifera (Boneseed) c. Chrysanthemoides monilifera ssp rotunda (Bitou Bush) d. Asparagus aethiopicus (Asparagus Fern) e. Acetosa sagittata (Turkey Rhubarb)	1. H	Combination of manual and chemical control as per best practice management control for each species.	1. Ongoing
 f. Tradescantia fluminensis (Wandering Jew) g. Ochna serrulata (Micky Mouse Plant) h. Delairea odorata (Cape Ivy) i. Ehrharta stricta (Panic Veltd Grass) 2. Supplementary and replacement planting in and around the Littoral Rainforest, particularly where weeds have been sprayed, using plant species from the revegetation list in section 15. 3. Monitor and assist Council with reserve access track maintenance. 4. Removal of rubbish. 	2. H 3. M 4. L	 Planting as required using species from revegetation species list. Report damage or maintenance requirements to walking track to Council. As required. 	2. As required3. As required4. As required
NEW ACTIONS 1. Seek funding assistance to design and produce interpretive signage on the SEPP 26 Littoral Rainforest.		NEW ACTIONS 1. Council and Bushcare Group to seek additional funding for signage.	1. 2016/17

GROUP ACTION (these should relate to your project description)	PRIORITY	METHOD	TIME
AREA 3 – Mollymook Beach Littoral Vine Thicket Forest (m	nap 6)		
NOTE: Following recent landslips the Bushcare group are safe.	not to work ii	n this area until such time that Cou	uncil declares it
CURRENT AND EXISTING ACTIONS 1. On-going control of environmental and noxious weeds targeting the following weed species: a. Lantana camara (Lantana) b. Chrysanthemoides monilifera ssp monilifera (Boneseed) c. Chrysanthemoides monilifera ssp rotunda (Bitou Bush) d. Asparagus aethiopicus (Asparagus Fern) e. Acetosa sagittata (Turkey Rhubarb) f. Delairea odorata (Cape Ivy) 2. Identifying and flagging Rubus fruticosus (Blackberry) infestations for Council to treat. 3. Identify weed species that are occurring on dangerous and steep slopes and notify Council for control by suitably qualified personnel. 4. On-going supplementary/enrichment planting to act as a buffer for salt laden winds and prevent the public trampling through the Littoral Vine Thicket Forest. 5. Culling of Lagunaria patersonia (Norfolk Island Hibiscus).	1. H 2. H 3. M 4. M 5. H	 Combination of manual and chemical control as per best practice management control for each species. Bushcare Group to flag Blackberry and report to Council for control. Bushcare Group to identify weeds and report to Council for control. Planting using revegetation species list. Cut and paint smaller plants, larger plants need to be drilled and injected with Glyphosate360, insure that larger plants will not pose a public risk once dead. 	 Ongoing Ongoing Ongoing As required Ongoing

GROUP ACTION (these should relate to your project description)	PRIORITY	METHOD	TIME
AREA 3 (cont.) – Mollymook Beach Littoral Vine Thicket Forest			
NEW ACTIONS 1. Seek funding to upgrade the interpretive signage near the toilet block to raise the public awareness of ecological values of the Littoral Vine Thicket Forest and how they can assist Council to look after it.	1. M	Council staff and volunteers to apply for external funding to design sign and produce.	1. 2016/17
AREA 4 – Small dune at Beach Rd adjacent to picnic shelter and toilet block (see map 6 and appendix 2 & 3 for details)			
 NEW ACTIONS Patch spray sections of Kikuyu grass on slope. Lay and pin Jutemat® to stabilize the bank prior to planting. Plant sections of the bank from small existing remnant of Coastal Banksias down to picnic shelter using plant species selected from section 15 revegetation list. 	1. M 2. M 3. M	 Spray Kikuyu with 1:200 glyphosate360:water. Council to supply Jutemat® and Bushcare Group to lay. Council to supply plants with Bushcare Group to plant. 	 Autumn/ Winter 2016 Winter 2016 Winter 2016
		NEW ACTIONS	

GROUP ACTION (these should relate to your project description)	PRIORI TY	METHOD	TIME
AREA 5 – Mollymook Beach dunes North of Blackwater Creek entrance (see map 7 for details and appendix 4)			
 NEW ACTIONS Assist Council with fore-dune revegetation/stabilisation of sand placed on dunes from dredging works at LakeConjola entrance (see appendix 4 for locations details of location of sand placement). Assist Council with on-going weed management of foredune area. 	1. M 2. M	 Planting of fore-dune primary colonising plant species along with staff, Green Army and school groups. Manual and chemical control. 	 2016/17 Ongoing
CURRENT AND EXISTING ACTIONS 1. Continue with letter box dropping and face to face communication with local residents to raise awareness of Bushcare work and coastal biodiversity conservation at Mollymook Beach and Bannister Headland	1. H	Bushcare Group to door knock local residents and Council to supply brochures/flyers.	1. As required
 EDUCATION AND PUBLIC AWARENESS RAISING CURRENT AND EXISTING ACTIONS 1. Continue to undertake periodic neighbourly door knocks to introduce the Bushcare Group and what they do and distribute awareness raising material such as "Being A Bush Friendly Neighbour", Weeds of The NSW South Coast & "Grow Me Instead". 	1. H	Bushcare Group to door knock local residents and Council to supply brochures/flyers.	1. As required
NEW ACTIONS 1. Council to install signage at the northern end of Beach St advertising that the Bushcare Group are working on the beach and headland reserve.	1. H	1. Council to install signage	2. 2016

4. MOLLYMOOK BUSHCARE GROUP ACTION PLAN AREA 1 - JONES BEACH MAP



5. MOLLYMOOK BUSHARE GROUP ACTION PLAN AREA 2 BANNISTER HEAD LITTORAL RAINFOREST MAP



6. MOLLYMOOK BUSHCARE GROUP ACTION PLAN AREA 2 BANNISTER HEAD LITTORAL RAINFOREST MAP



7. MOLLYMOOK BUSHCARE GROUP ACTION PLAN AREA 5 MOLLYMOOK BEACH DUNES MAP



8. BUSHCARE GROUP WHS & EQUIPMENT REQUIREMENTS

Type of Activity	Yes	SWMS name included
Manual weed control (cut & paint, scrape and paint etc)	V	SWMS1276
Chemical control (spraying of herbicides)	V	SWMS1276
Planting	√	SWMS1265
Minor construction (walking track, fencing, outdoor furniture)	V	SWMS01751
Propagation & seed collection	√	SWMS1265

9. COUNCIL SUPPORT

Council will provide support in the following areas:

- 1. Assistance with control of environmental and noxious weeds on steeper dangerous slopes and cliff areas within budgetary limits
- 2. Graphic design and printing services
- 3. Supply of materials, equipment within budgetary limits
- 4. Supply of a qualified bush regenerator to assist the group with bush regeneration skills and knowledge and WHS requirements for 3 hours per month over 11 months of the year
- 5. Production and installation of a Bushcare sign on site
- 6. Technical assistance
- 7. Grant application and management assistance
- 8. Public liability and personal accident insurance cover for all registered Bushcare volunteers
- 9. Assistance with dune revegetation/stabilisation with the sand placed on Mollymook Beach from the dredging at Lake Conjola.

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

Yes	v	No	
1 00	v	110	_

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

PPE Equipment Required	Date issued
First Aid Kit	2015
Gloves	2015
Sunscreen	2015
Insect repellent	2015

12. POSSIBLE FUTURE FUNDING

Project	Funding source
Support with noxious and environmental weed control on steep/dangerous slopes and cliff around the headland	Various
Design and production of 2 x interpretive signs on the SEPP 26 Littoral Rainforest on Bannister Headland and the Littoral Vine Thicket Forest at the Northern end of Mollymook Beach	Various

13. PLAN WILL BE REVIEWED EVERY THREE YEARS

Next review due:

October 2016

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

Name of document	Year it was produced	Produced by
Community Generic Plan of Management - Natural Areas	2001	Shoalhaven City
Foreshore Reserve Policy	2005	Shoalhaven City

15. BUSHCARE SITE RECOMMENDED PLANTING/REVEGETATION SPECIES LIST

OVERSTOREY TREES		
Botanical	Common	
Banksia integrifolia	Coast Banksia	
Casuarina glauca	Swamp oak	
Acmena smithii	Lilly Pilly	
Cassine australis	Red Fruited Olive Plumb	
Leptospermum laevigatum		
	HRUBS	
Botanical	Common	
Pittosporum revolutum	Rough Fruit Pittosporum	
Acacia longifolia ssp. longifolia	Sydney Golden Wattle	
Rhagodia candolleana	Sea Berry Saltbush	
Leucopogon parviflorus	Coastal Heath	
Acacia longifolia spp. sophorae	Coastal Wattle	
Correa alba	White Correa	
Myoporum acuminatum	Boobialla	
Myoporum boninense	Boobialla	
UNDERSTOREY (grasses, herbs, climbers)		
Botanical	Common	
Homalanthus populifolius	Bleeding Heart	
Imperata cylindrica	Blady Grass	
Lomandra longifolia	Spiny Matt Rush	
Oplismenus aemulus	Basket Grass	
Kennedia rubicunda	Dusky Coral Pea	
Hardenbergia violacea	Purple Coral Pea	
Dianella caerulea	Blue Flax Lily	
Dianella revoluta	Blueberry Lily	
Hibbertia dentata	Guinea Flower	
Hibbertia scandens	Guinea Flower	
Ficinia nodosa	Club Rush	
Pelargonium australe	Native Storksbill	
Carrachus allaurasana	Pig Face	
Carpobrotus glaucescens		
Spinifex sericeus	Coastal Spinifex	
Spinifex sericeus	Coastal Spinifex	

16. BUSHCARE SITE WEED LIST (The following weeds have been recorded on the site)

Noxious	Environmental	Control Method
Lantana camara (Lantana)		Manual and Chemical control
Chrysanthemoides monilifera ssp monilifera (Boneseed)		Manual and Chemical control
Chrysanthemoides monilifera ssp rotunda (Bitou Bush) Asparagus aethiopicus (Asparagus Fern)		Manual and Chemical control
	Acetosa sagittata (Turkey Rhubarb)	Manual and Chemical control
	Tradescantia fluminensis (Wandering Jew)	Manual and Chemical control
	Ochna serrulata (Micky Mouse Plant)	Cut and paint
	<i>Delairea odorata</i> (Cape Ivy)	Chemical control
	Ehrharta stricta (Panic Velt Grass)	Chemical control
	Lagunaria patersonia (Norfolk Island Hibiscus)	Drill and inject larger trees and cut and paint smaller

17. JONES BEACH BUSHCARE SITE SPECIES LIST (The following species have been recorded on the Jones beach site using a 50 metre transect see appendix for location details)

OVERSTOREY TREES			
Botanical	Common		
Banksia integrifolia	Coast Banksia		
Eucalyptus botryoides	Bangalay		
SHRUBS			
Botanical	Common		
Acacia implexa	Hickory Wattle		
Acacia mearnsii	Black Wattle		
Breynia oblongifolia	Coffee Bush		
Cassine australis	Red Fruited Olive Plumb		
Casuarina glauca	Swamp oak		
Glochidion ferdinandi	Cheese Tree		
Pittosporum revolutum	Rough Fruit Pittosporum		
Pittosporum undulatum	Native Daphne		
UNDERSTOREY (grasses, herbs, orchids)			
Botanical	Common		
Centella asiatica	Centella		
Eupomatia laurina	Bolwarra		
Gahnia clarkei	Sword Sedge		
Geranium homeanum	Cutleaf Geranium		
Homalanthus populifolius	Bleeding Heart		
Imperata cylindrica	Blady Grass		
Lomandra longifolia	Spiny Matt Rush		
Oplismenus aemulus	Basket Grass		
Plectranthus parviflorus	Cockspur Flower		
Pteridium esculentum	Bracken Fern		
Rubus parvifolius	Native Raspberry		
Senecio linearifolius	Native Fireweed		
Sigesbeckia orientalis	Indian Weed		
UNDERSTOREY (vines & climbers)			
Botanical	Common		
Stephania japonica	Snake Vine		
Calystegia marginata	Forest Bindweed		
Kennedia rubicunda	Dusky Coral Pea		
Tylophora barbata	Bearded Tylophora		
Cissus hypoglauca	Water Vine		
Hardenbergia violacea	Purple Coral Pea		

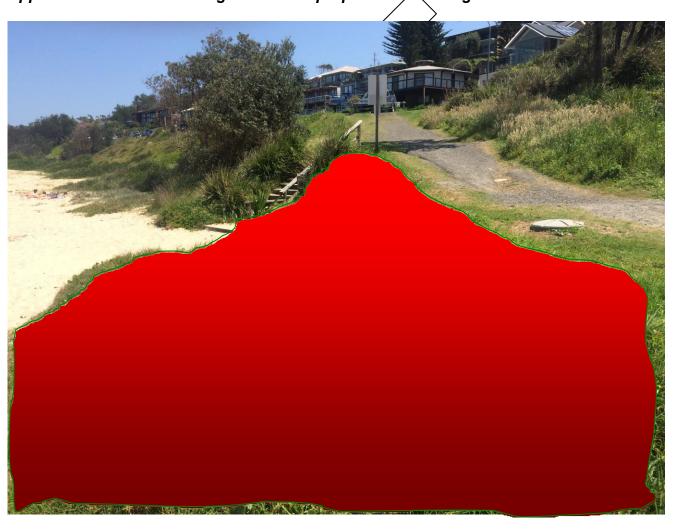
18. BANNISTER HEADLAND BUSHCARE SITE SPECIES LIST (The following species have been recorded on the site using a 50 metre transect see appendix for location details)

OVERSTOREY TREES				
Botanical	Common			
Acmena smithii	Lilly Pilly			
Cassine australis	Red Fruited Olive Plumb			
Casuarina glauca	Swamp Oak			
Eucalyptus botryoides	Bangalay			
Ficus macrophylla	Moreton Bay Fig			
Pittosporum undulatum	Native Daphne			
SHRUBS				
Botanical	Common			
Acacia longifolia ssp. longifolia	Sydney Golden Wattle			
Breynia oblongifolia	Coffee Bush			
Clerodendrum tomentosum	Hairy Clerodendrum			
Duboisia myoporoides	Corkwood			
Myoporum acuminatum	Boobialla			
Myoporum boninense	Boobialla			
Notelaea longifolia	Large Mock Olive			
Pittopsorum revolutum	Rough Fruit Pittosporum			
Pittosporum undulatum	Native Daphne			
Rhagodia candolleana	Sea Berry Saltbush			
Santalum obtusifolium	Blunt Sandalwood			
UNDERSTOREY (grasses, herbs, orchids)				
Botanical	Common			
Blechnum ambiguum	Gristle Fern			
Carex appressa	Tall Sedge			
Centella asiatica	Indian Pennywort			
Dianella caerulea	Blue Flax Lily			
Dianella revoluta	Blueberry Lily			
Dichondra repens	Kidney Weed			
Gymnostachys anceps	Settlers Twine			
Lomandra longifolia	Spiny Matt Rush			
Pittosporum multiflorum	Orange Thorn			
UNDERSTOREY (vines & climbers)				
Botanical	Common			
Aphanopetalum resinosum	Gum Vine			
Cissus antarctica	Kangaroo Grape			
Eustrephus latifolius	Wombat Berry			
Hibbertia dentata	Guinea Flower			
Parsonsia straminea	Common Silkpod			
Stephania japonica	Snake Vine			
Tylophora barbata	Bearded Tylophora			

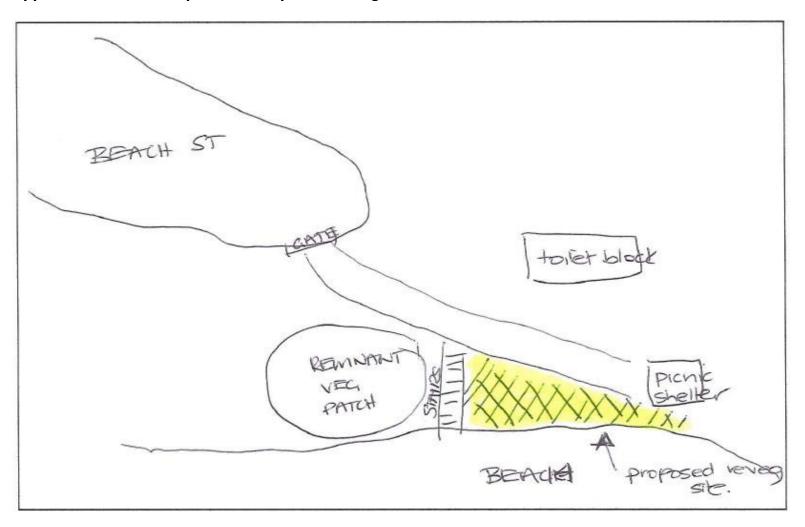
Appendix 1 – Location of Bannister Head 50 metre∕ vegetation recording transect



Appendix 2 – Photo showing location of proposed new revegetation site at the Northern end of Beach St, Mollymook.



Appendix 3 – Detail Map Area 4 Proposed Revegetation Site



Appendix 4 – Location details of sand placement at Mollymook Beach North of Blackwater Creek entrance

