



SHOALHAVEN BUSHCARE GROUP ACTION PLAN

CONTACT INFORMATION

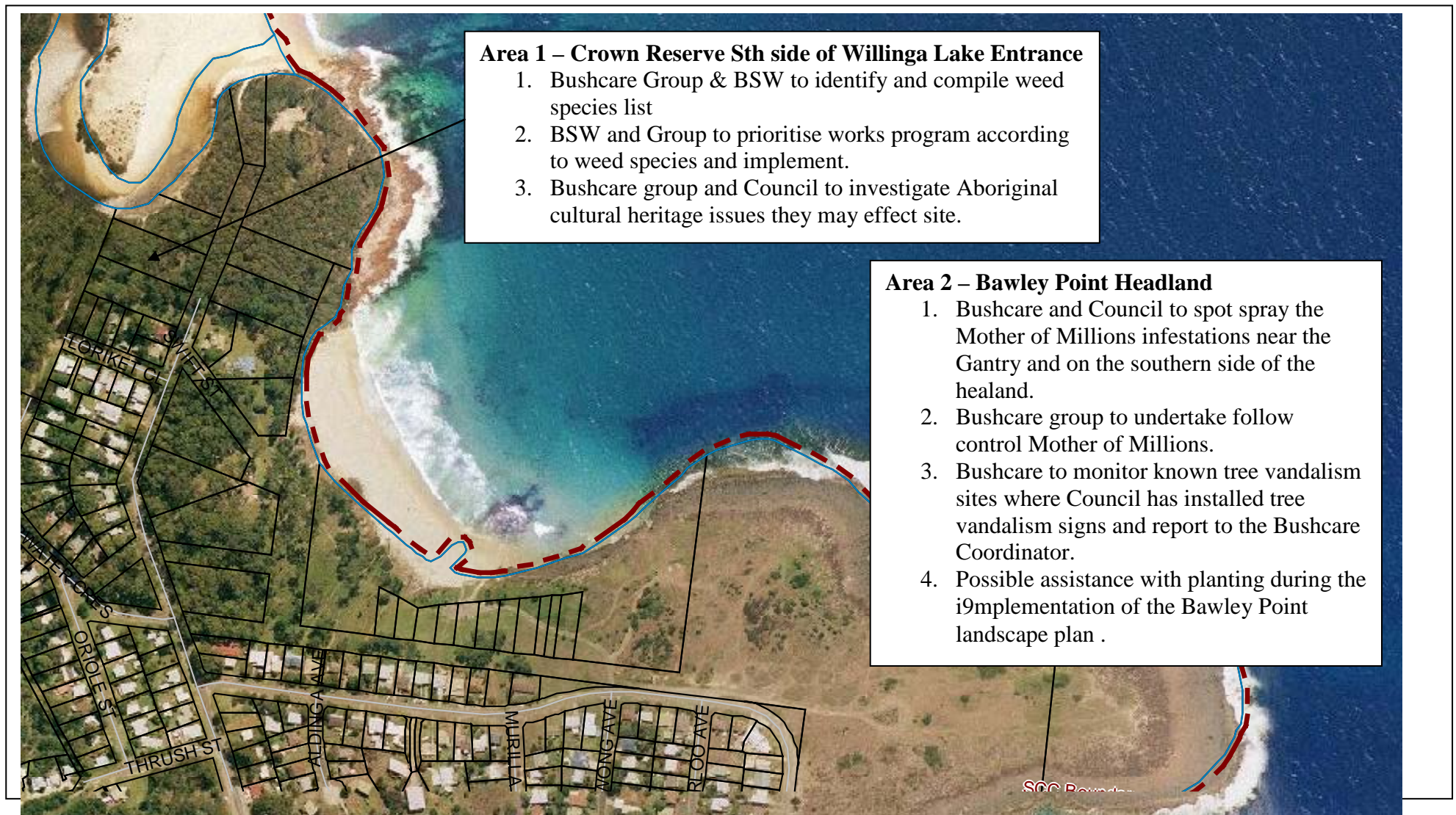
Group Name: Bawley Point Bushcare
Contact: Sybille Davidson
Address: 134 Malibu Dr , Bawley Point
Tel: 4454 2669 **Email: o2445@iinet.net.au**
Reserve Name: Various Reserves Reserve No's: SBP886, SBP860, SBP870
& SBP887
Land Tenure: Crown & Council Comm. Land Type: Natural Area Wetland
& Bushland

1. BUSHCARE GROUP GOALS - Please provide a brief description of your Group's proposed project

The aim of the Bawley Point Bushcare group is as follows:

1. The regenerate the public foreshore reserves in and surrounding the village of Bawley Point for present and future generations to enjoy.
2. To foster and promote sustainable management of the villages public reserves.
3. To raise awareness of the local and visitors to Bawley Point of areas local biodiversity values.
4. To raise awareness of the local and visitors in Bawley Point of the impact of environmental weeds and how they can reduce their impact.
5. Undertake a planned weed control program in and around Bawley Point to improve local biodiversity.

4. BUSHCARE GROUP ACTION PLAN MAP – SITE 1 WILLINGA LAKE AND BAWLEY POINT - Please indicate below, on a map of your site what on-ground actions, from your group activity table, your group are planning to undertake. Include actions from other groups who may be involved, such as contractors, schools, Green Corps, Scouts etc.

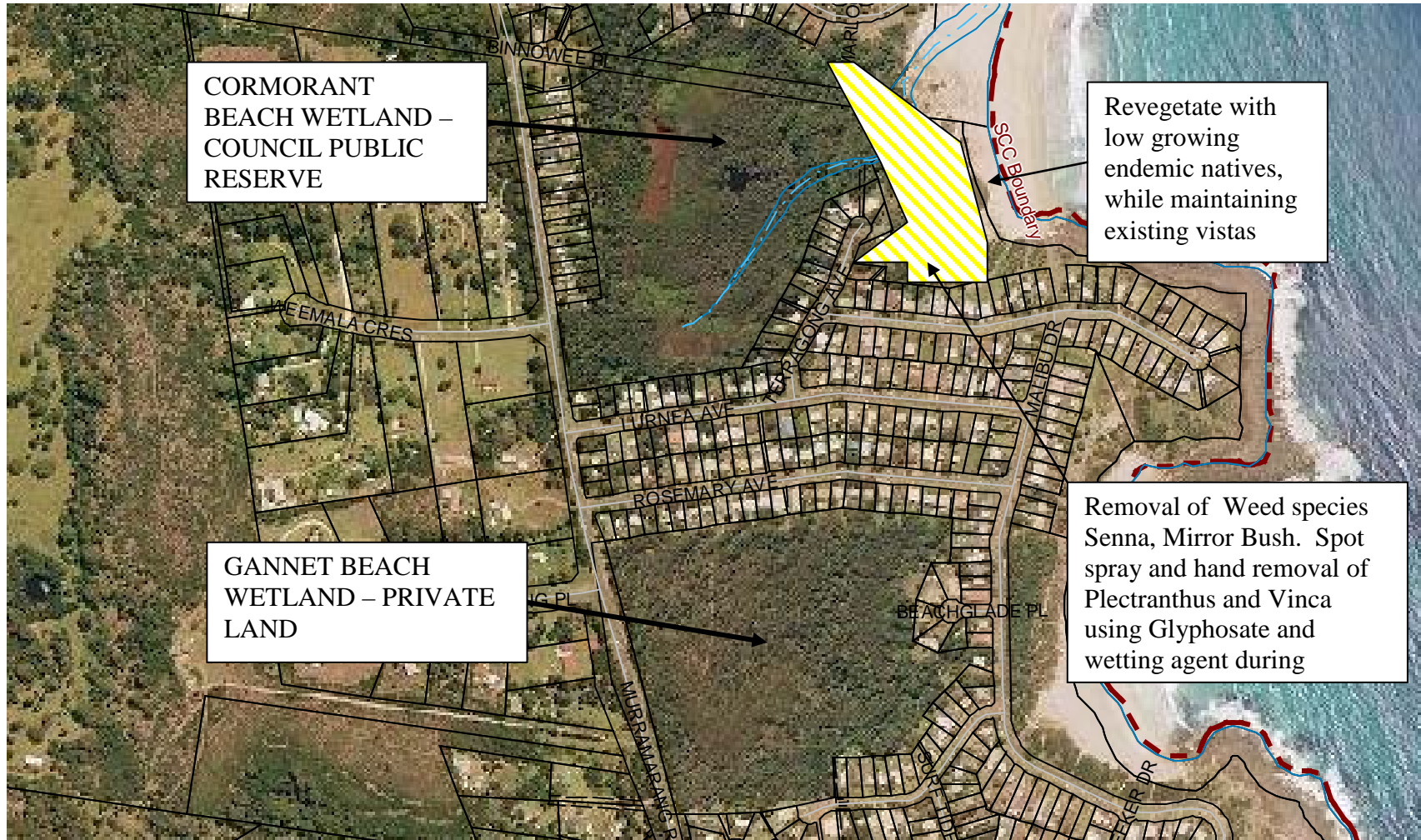


3. SHOALHAVEN BUSHCARE GROUP ACTIVITIES TABLE (to be in conjunction with attached site map)

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
<p>Area 1 – Crown Reserve Sth side of Willinga Lake Entrance</p> <ol style="list-style-type: none"> 1. Bushcare Group & BSW to identify and compile weed species list 2. BSW and Group to prioritise works program according to weed species and implement. 3. Bushcare group and Council to investigate Aboriginal cultural heritage issues they may effect site. 	<ol style="list-style-type: none"> 1. M 2. M 3. H 	<ol style="list-style-type: none"> 1. Work with the support worker to prepare flora species. 2. Work with BSW to prioritise weed control works. 3. Bushcare group Coord. To contact ANU and Council Bushcare Coord. To contact DECC to inquire of nay Aboriginal Cultural sites. 	<ol style="list-style-type: none"> 1. April 08 2. 2008-09 3. 2008
<p>Area 2 – Bawley Point Headland</p> <ol style="list-style-type: none"> 1. Bushcare and Council to spot spray the Mother of Millions infestations near the Gantry and on the southern side of the healand. 2. Bushcare group to undertake follow control Mother of Millions. 3. Bushcare to monitor known tree vandalism sites where Council has installed tree vandalism signs and report to the Bushcare Coordinator. 4. Possible assistance with planting during the implementation of the Bawley Point landscape plan . 	<ol style="list-style-type: none"> 1. H 2. M 3. M 4. L 	<ol style="list-style-type: none"> 5. Spray Mother of Millions following results of trail spray using Starane® at Juwin Head. 6. Hand removal of young plants, bag and remove. 7. Report any further incidents of veg damage on the public reserve. 8. Assist with planting if time permits. 	<ol style="list-style-type: none"> 1. Winter 2008 2. On-going 3. On-going 4. As needed

BUSHCARE GROUP ACTION PLAN MAP – SITE 2 CORMORANT BEACH AND GANNET BEACH WETLANDS.



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
<p>Cormorant Beach Wetland</p> <ol style="list-style-type: none"> 1. Council to forward weed strategy for swamp to Bushcare group. 2. Identify priorities for regenerations works and Bushcare group to apply for grant funding to implement. 3. Support existing work being undertaken by Bushcare members in the South – Western corner of Cormorant Beach by providing Green Corps team assistance with target weeding. 4. Revegetate coastal areas with low-growing endemiv species, whilst maintaining vistas 5. Cut and paint or hand pull Senna, and Mirror bush near gully behind Terragong Ave. Spot spray and hand remove Plectranthus and Vinca, using glyphosate with wetting agent whilst weeds are flowering 	<ol style="list-style-type: none"> 1.H 2. M 3. H 4.M 5. M 	<ol style="list-style-type: none"> 1.Send strategy to Bushcare Group coordinator 2. Bushcare group and Council to review strategy and prioritise actions. 2. Bushcare group and Council to apply to Envirofund to implement actions 3. Assist current work by using Green Corps or any other labor market programs available. 	<ol style="list-style-type: none"> 1.March 2008 2. 2009 3. 2008 4. 2008 5. 2009

<p>Gannett Beach Wetland - (Private Land)</p> <ol style="list-style-type: none"> 1. Council's Bushcare Coordinator to approach landowner to discuss weeds issue the possibility of the Bushcare Group gaining access to the land to prepare a weed species list and prioritise works.. 2. Council's Bushcare Coordinator to approach landholder to discuss the possibility of submitting a joint application for funding to undertake weed control works on the wetland in conjunction with Cormorant Beach Wetland. 3. Replant sections behind 25- 41 Malibu Dr with low-growing endemic natives 4. Bushcare group is to assist Council in implementing works in accordance with the Gannett Beach Management Plan behind 45- 65 Malibu Dr 	<p>1.H 2. M 3. M 4. M</p>	<p>1. Council's Bushcare Coordinator write to the landowner to request an meeting site meeting with the Bushcare group. 2. Discuss funding possibility at the same meeting.</p>	<p>2009</p>
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JUWIN HEADLAND FORESHORE RESERVE – MOTHER OF MILLIONS CONTROL



SHOALHAVEN BUSHCARE GROUP ACTIVITIES TABLE (to be in conjunction with attached site map)

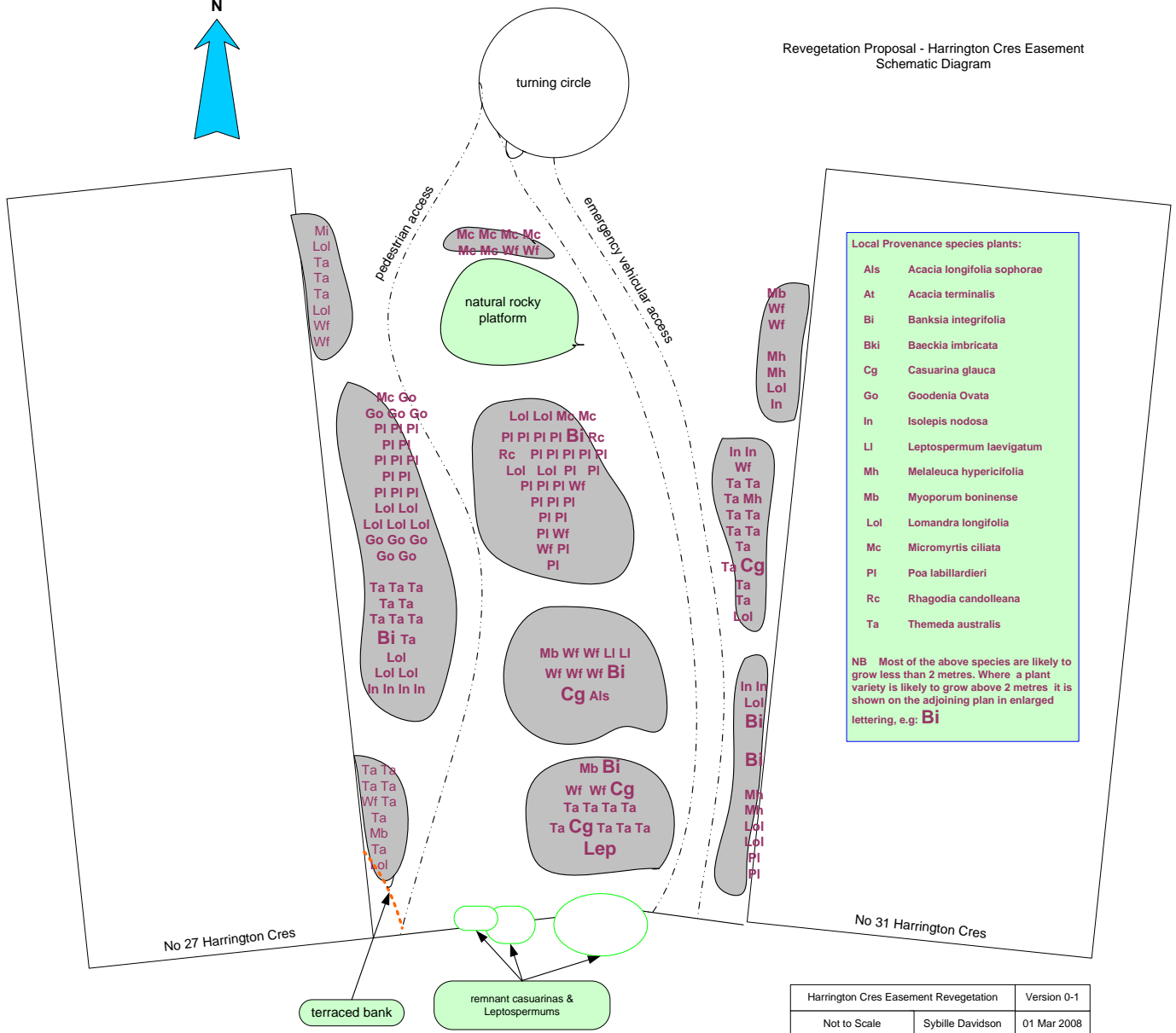
NOTE: Priority should be rated as H = High (within 12 months); M = Medium (1-3 years); L = Low

GROUP ACTION (these should relate to your project description)	PRIORITY	METHOD	TIME
<p>Juwin Headland Mother of Millions control Trails:</p> <ol style="list-style-type: none"> 1. Establish three 5mx5m trail plots (as per map) and GPS locations. 2. Consult with marine biologist or other marine expert as to the adverse effect of using Fluroxpyr (active ingredient of Starane®) close to rock platform. 3. If minimal risk established spray 2 plots with Starane® and hand remove weeds in the remaining plot. 4. Bushcare Group with the assistance of a Bushcare Support Worker monitor the effectiveness of the trail using photo points and ground cover abundance % 5. Depending on results of trails take further control actions over the remainder of the reserve. 6. Remove weeds and replace vandalised or damaged vegetation with low -growing endemic species 	<p>1.H 2. H 3.H 4.H 5.M 6. H</p>		

Harrington Cresent SCC Easement between house No's 27 & 31 Bushcare Plan Map



Revegetation Proposal - Harrington Cres Easement
Schematic Diagram



Harrington Cres Easement Revegetation		Version 0-1
Not to Scale	Sybille Davidson	01 Mar 2008

Proposal for Revegetation of Foreshore Reserve at 29 Harrington Crescent, Bawley Point. - as part of Bushcare Plan for Bawley Point

Description of the area.

This reserve has recently suffered severe denuding through serving as access for tradesmens' vehicles and machinery during the construction late last year of large 2-storey residences on either side. (But it was previously fairly degraded anyway). This construction seems now to be largely completed. Previously the easement block was covered largely with weed and grasses – mostly kikuyu, with 3 remnant native trees at the street boundary still intact. Regrowth kikuyu is now emerging.

As shown in attached photos the block allows foot access to Cormorant Beach from Harrington Crescent, and also lends itself to an access driveway for a rescue vehicle. Due to a rocky descent further below, vehicle access would only be possible as far as the brow below the block as it descends more steeply. A vehicle turning circle is possible just beneath the bottom of the block boundary. The proposal attached makes allowance for pedestrian and driveway access.

As much of the lower part of the easement block itself seems to be on a rocky platform it is likely no tall vegetative growth would succeed there – but this is in keeping with neighbours' likely vista requirements. Lower down above the beach there is evidence of established trees (casuarinas? Banksias?) having been pruned over time.

The Mudmap

The hand-drawn diagram lists proposed plantings, with coastal vistas of neighbours' on either side being allowed for, as well as suitability of plants where there is shallow topsoil above rocky ground. The circles with letters symbolise the varieties of plants, all being provenance of beach foreshores of the southern Shoalhaven and propagated at the Milton-Ulladulla Landcare Nursery. While the circled symbols indicate varieties and are randomly scattered, these symbols are intended to serve as general theme and there could of course be some variation upon the selection and location – with input from immediate neighbours as well.

One particularity of the block is the need (I believe) for a small terracing task adjacent to the western neighbour's driveway entrance. That driveway is built slightly elevated above the easement boundary and has a pronounced slope at

this point. A 3-4 meter rocky retainer might allow for this difference in ground level at a point beside where pedestrian access is likely to continue occurring.

Actions to be undertaken by ?

The planting efforts, including digging of holes, could be achieved through the efforts of local Bawley Point Bushcare group members (approx 6 people) over 3 - 4 days (sequential not necessary) if there were some assistance from the Greencorps team (currently 7 are able-bodied). It would be desirable to have the new plantings, until they became more established, protected with tree guards and even protectively roped off to demarcate them from the walk-ways.

The terracing work mentioned in the previous paragraph is a very small one and might also be considered an interesting project for the Greencorps Group. My estimate is it would require only a few rocks and a few barrow loads of fill.

Maintenance plan.

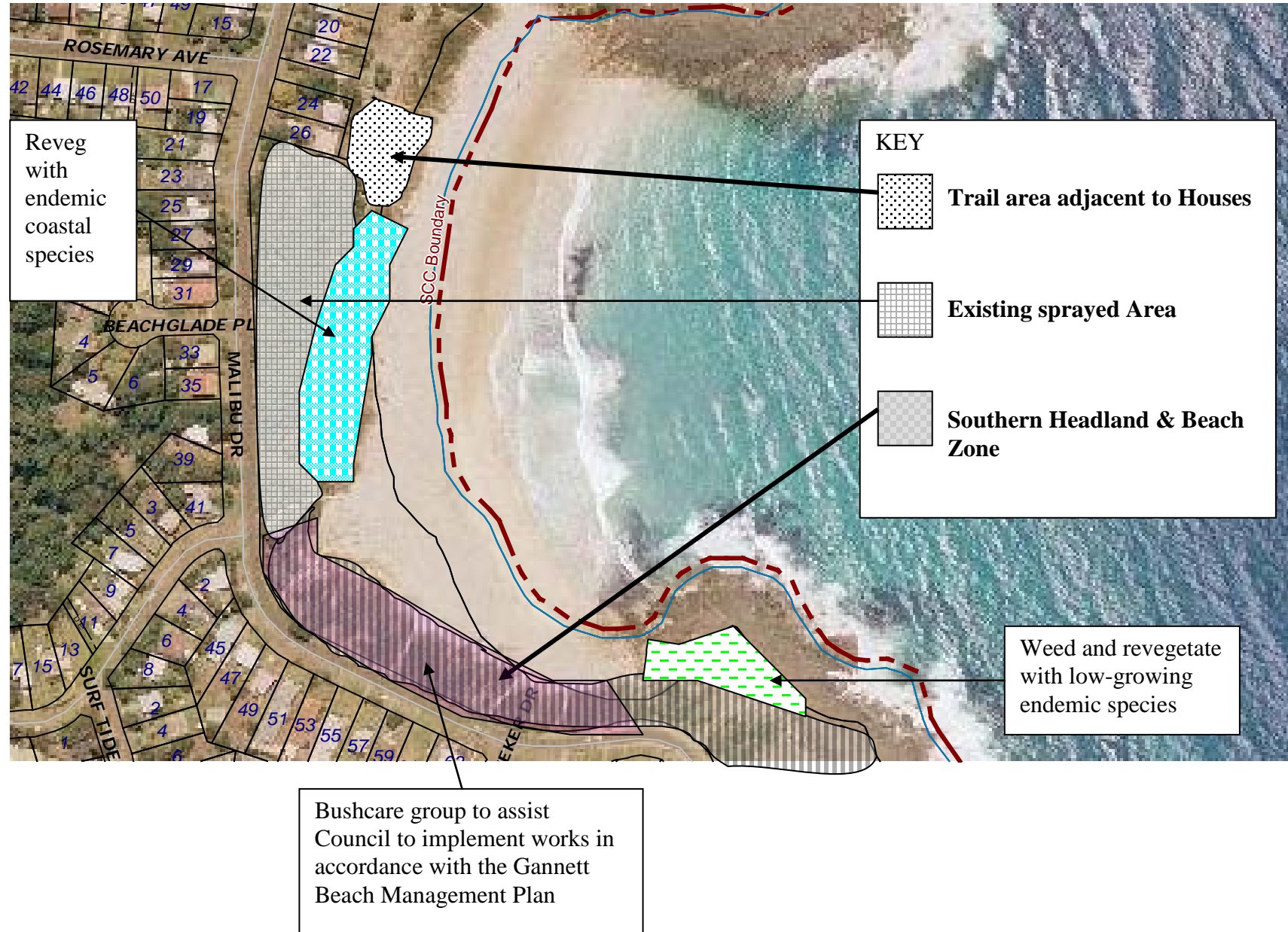
The local Bawley Point Bushcare group is prepared to supervise the plantings in terms of water, as needed, while the seedling plants are establishing. With negotiation, it may be that from time to time the residents on either side may assist with this - but it does seem so far that these houses are only used for holidays rather than as full time residential dwellings. We believe if an autumn - winter time planting effort were possible, viz, from April '08 onwards, this would alleviate the need for much additional watering.

The revegetation work proposed is timely now, I believe, as the block is almost a clean slate, so to speak, after much tradesmens' traffic and will only degenerate further to weedy regrowth. It is hoped that some such revegetation work might even result in creating further local interest and may even give impetus to other neighbourhood foreshore reserve care and bushcare initiatives.

Education Plan for Bawley Point

GROUP ACTION (these should relate to your project description)	PRIORITY	METHOD	TIME
<ol style="list-style-type: none"> 1. Bushcare group to draft an educational brochure for residents and visitors to the village called "Being a good Bushland Neighbour - Bawley Point" which will be a simple guide to what simple steps residents can do to reduce their impact on the local flora and fauna of the villages Bushland reserve. 2. Council's Bushcare Coordinator to send draft of brochure to the General Manager for approval. 3. Council to print 1000 copies of brochure for Bushcare group to distribute. 	H	<ol style="list-style-type: none"> 1. Bushcare to prepare draft. 2. Council Bushcare Officer to send to GM for sign off. 3. Council Bushcare Officer to arrange for graphics to print 1000 copies 4. Bawley Bushcare group to distribute. 	<ol style="list-style-type: none"> 1. July 2008 2. August 2008. 3. Sept 2008 4. Nov 2008.

GANNETT BEACH BUSHCARE SITE MAP



ACTION PLAN FOR GANNET BEACH MOTHER OF MILLIONS

Existing sprayed Area	Trail area adjacent to Houses	Southern Headland & Beach Zone
<ul style="list-style-type: none"> Hand weed 	<ul style="list-style-type: none"> Carefully remove Pigface. Divide and pot up ready to be replanted. 	<ul style="list-style-type: none"> Contractors to spray Strip 1 of Mother of Millions , between 1st beach & 2nd Beach access way heading east Bushcare group to follow with hand weeding of MoM, bag and remove from site. Contractors to spray Strip 1 of Mother of Millions , between 2nd beach & 3rd Beach access way heading east Bushcare group to follow with hand weeding of MoM, bag and remove from site. Contractors to spray Strip 1 of Mother of Millions , between 3rd beach & 4th Beach access way heading east Bushcare group to follow with hand weeding of MoM, bag and remove from site. Contractors to spray Strip 1 of Mother of Millions , between 4th beach & 5th Beach access way heading east Bushcare group to follow with hand weeding of MoM, bag and remove from site. Contractors to spray Strip 1 of Mother of Millions on southern headland Bushcare group to follow with hand weeding of MoM, bag and remove from site. Bushcare group to monitor re growth and treat as needed.
<ul style="list-style-type: none"> Hand weed 	<ul style="list-style-type: none"> Collect seed to spread 	
<ul style="list-style-type: none"> Hand weed 	<ul style="list-style-type: none"> Set up trail quadrat Hand removal of all Mother of Millions, bag and remove from site 	
<ul style="list-style-type: none"> Continue in this manner 	<ul style="list-style-type: none"> Replant Pigface Monitor site to access re-growth of MoM 	
	<ul style="list-style-type: none"> Hand weed Monitor 	
	<ul style="list-style-type: none"> Hand weed Monitor 	
	<ul style="list-style-type: none"> Hand weed Mointor 	
	<ul style="list-style-type: none"> Continue in this manner. 	

CONTROL METHODS

- Mother of Millions is hard to eradicate and continual, regular follow-up is essential until the soil seed bank is exhausted.
- The highest priority must be to prevent its further spread.
- Fire is the best method of eradication, bushfire not flame guns as they do not generate enough heat; but unfortunately it is extremely difficult to get permission and assistance for this form of control.
- An integrated method of control is the best using both hand removal and herbicide spraying.
- After high seas, check for new infestations.
- Opportunities to collect native seed from the site should be grabbed. Even if it is difficult to plant the seed up, it can be hand spread. This will eventually assist by competing with the Mother of Millions.

Hand Weeding	Spraying
<ul style="list-style-type: none">• Always work from good areas to bad.• Never walk from bad areas into good. Find another way out.• Mother of Millions must not be allowed to set seed. When it is flowering, hunt down, remove and bag all flowers. Yep – tedious, I know. But it is satisfying when you think of all the millions of plants that you just prevented from growing..• When hand weeding take care to bag all sections of the plant. Even one leaf left on the ground can propagate.	<ul style="list-style-type: none">• The success of the section already sprayed with Glyphosate has been noted and this is the herbicide you should continue to use, despite advice that a mixture of Glyphosate and Brushoff be used. Previous success, the proximity of a waterway and the preference for using the most benign chemical possible all indicate the use of Glyphosate Biactive which can safely be sprayed near waterways.• A surfactant needs to be added to the mixture. This ensures the herbicide adheres to the waxy leaves.

<ul style="list-style-type: none">• When there are areas of tiny seedlings, it pays to remove the top few millimetres of soil with it. This will assist greatly in reducing the seed bank.	<ul style="list-style-type: none">• To prevent drift, never spray in windy weather• Never spray if rain is due within about 12 hours• Never spray an area too large for the group to handle. It will only cause you all to get depressed. Keep it small and achievable.
<p>REMEMBER - FOLLOW UP, FOLLOW UP, FOLLOW UP</p>	

4. BUSHCARE GROUP OH&S & EQUIPMENT REQUIREMENTS

a) Tick the activities that the group volunteers are likely to be doing as part of the action plan and attach the relevant Safe Work Method Statements, see Bushcare Coordinator for copies of these)

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

b) Has a site hazard and risk assessment been completed for the Bushcare site?

Yes No

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

c) List the Personal Protection Equipment Required for volunteers whilst working on the site

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

5. COUNCIL SUPPORT

What activities/actions will Council assist with? (list the activities/actions council will do).

1. Assistance with spraying of Mother of Millions
2. Tools, Chemical and PPE
3. Provide on site Bushcare Support Worker for 4 hours per month
4. Printing
5. Grant application and administration
6. Assistance with approaching private landowner to coordinate weed control grant
7. Supply of plants and mulch
8. Liase with Marine Biologist
9. Liase with DECC on Aboriginal Cultural Heritage Issues
10. Contract management

6. Possible Future Funding

Project	Funding source
Cormorant and Gannet Beach Wetland Weed Control & Rehabilitation	Envirofund

7. Plan will be reviewed yearly – next review due:

March 2009

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

8. Please list other local or regional management plans or strategies that this plan relates to

Name of document	Year it was produced	Produced by
Foreshore Reserve Policy	2005	Natural Resources & Floodplain Unit, City Services, Shoalhaven City Council
Generic Plan of Management for Natural Reserves	2001	Natural Resources & Floodplain Unit, City Services, Shoalhaven City Council
Noxious and Environmental Weed Control Handbook	3rd Edition	NSW Department of Primary Industries
NSW Coastline Management Manual	1990	NSW Government
Plan of Management , Gannet Beach Reserve, Bawley Point	1996	Shoalhaven City Council

SUGGESTED SPECIES LIST FOR BAWLEY POINT BUSHCARE SITES (*species list currently being compiled*)

OVERSTOREY TREES	
Botanical	Common
Allocasuarina littoralis	Black She Oak
Allocasuarina distyla	
Banksia integrifolia	Coastal Banksia
Banksia serrata	Old Man Banksia
Casuarina glauca	Swamp She Oak
Leptospermum laevigatum	Coastal Tea Tree
SHRUBS	
Botanical	Common
Atriplex cinerea	Salt Bush
Baeckia imbricata	
Correa alba	Native Fuschia
Myoporum boninense	Boobalia
Micromyrtis ciliata	
Synoum glandulosum	Bastard Rosewood
Glochidion ferdinandi	Cheese Tree
Pittosporum revolutum	Rough Pittosporum
Rhagodia candolleana	Sea Blite
Westringea fruticosa	Coatal Rosemary
Acacia longifolia sophorae	Coatal Wattle
Melaleuca hypericifolia	
UNDERSTOREY (grasses, herbs, climbers)	
Botanical	Common

Carpobrotus glaucescens	PigFace
Clematis aristata	Old Mans Beard
Crinum pedunculatum	Swamp Lily
Dianella caerulea	Blue Flax Lily
Eustrephus latifolius	Wombat Vine
Goodenia ovata	Native Hops
Isolepis nodosa	
Juncus kraussii	Club Rush
Lomandra longifolia	Mat Rush
Pandorea pandorana	Wonga Wonga Vine
Poa labillardieri	Tussock Grass

BAWLEY PT BUSHCARE SITE WEED LIST

Noxious	Other	Control Method
Rubus fruticosus – blackberry	<i>Asparagus scandens</i>	Hand removal
	<i>Delairea odorata, Syn: Senecio mikanioides</i>	Spot spray
	<i>Gazania rigens</i>	Hand removal
	<i>Bidens ssp.</i>	Hand removal
	<i>Senna x floribunda, S.pendula var: glabrata, S.multiglandulosa</i>	Hand pull seedlings and small plants. Large plants treated using Cut & Paint method.
	<i>Lonicera japonica</i>	Hand removal/spot spray
	<i>Ipomoea cairica</i>	Cut & paint
	<i>Bryophyllum</i>	Hand remove – continual

	<i>delagoense</i>	follow-up
	<i>Crassula</i>	Hand removal
	<i>Crocsmia X crocosmiiflora</i>	Initial spray (BioActive) then spot spray
	<i>Euphorbia paralias</i>	Hand remove
	<i>Plectranthus australis</i>	Hand remove
	<i>Delairea odorata, Syn: Senecio mikanioides</i>	Spot spray
	<i>Gazania rigens</i>	Hand removal
	<i>Lilium formosanum</i>	Cut & paint
	<i>Ochna serrulata</i>	Hand pull seedlings. Larger plants treated using Cut & Paint method.
	<i>Nephrolepis cordifolia</i>	Hand removal
	<i>Oxalis pes-caprae</i>	Spot spray
	<i>Passiflora edulis</i>	Hand removal.
	<i>Acetosa sagittata</i>	Spot spray
	<u><i>Pennisetum clandestinum</i></u>	Spray
	<u><i>Stenotaphrum secundatum</i></u>	Spray
	<i>Anredera cordifolia</i>	Stem scrape

	Agapanthus	
	Aloe sp	
	Asparagus asparagoides – bridal creeper	
	Canna Lily	
	Chlorophytum comosum – spider plant	
	Dipogon lignosus – dolichos pea	
	Hedera helix – English Ivy	
	Lagunaria patersoniae - Norfolk Island hibiscus	
	Monbretia	
	Osteospermum fruticosum	
	Oleander	
	Pelargonium – Garden geranium	
	Plectranthus verticillatus – creeping Charlie	