



NORTH HEAD - ULLADULLA BUSHCARE ACTION PLAN

CONTACT INFORMATION

Group Name:North Head (Ulladulla) Bushcare GroupReserve Name:North HeadReserve No:SUL944Land Tenure:Crown Land – CC/Trust

1. BUSHCARE GROUP GOALS

The goals of the North Head Bushcare Group are as follows:

- 1. To maintain and improve the biodiversity of the North Head by undertaking bush regeneration activities
- 2. Monitor the effects fire regimes on the headland's heathland ecology
- 3. Improve local awareness and public interest in the headlands natural and cultural values and attract new volunteers to group
- 4. Keep the area clean and tidy

2. 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		METHOD	TIME		
	BUSH REGENERATION/WEED CONTROL AND VEGETATION MONITORING					
a. Spot s walkir	Prescribed Burn Area - Actions spray or hand remove annual weeds, on the ng track edges, open areas and slashed fire , prioritising the following species: Parramatta Grass Fleabane Whiskey grass Scotch and Sow Thistle Paspalum	M	 a. Spot spraying all annual weeds to be done using rate of 1% of glyphosate (roundup). Annual weeds that are hand removed should be left on site unless they are seeding (See attached Bush Regeneration Info Sheet) 	Spraying in Spring/Summer & On going		
vi. b. Hand	Purple Top removal, spray and cut or scrape and paint inial weeds targeting the following species: Lantana Ink Weed Montbretia Turkey Rhubarb Ink Weed	Н	 b. Undertake the following control methods for the weed species : i. Hand pull small Lantana, Ink Weed, Montbretia or cut and paint larger Ink Weed plants, (See attached Bush Regeneration Info Sheets – Control of Woody Weeds) 	All year		

vi.Blackberryii.Scrape and paint small Blackberry plants, larger plants report to Councilc.Council and Bushcare group to undertake monitoring of the vegetation within the burnt area of the headland, to determine if the presence of Allocasuarina spp are reducing the diversity of the regenerating native heathland speciesMCouncil Bushcare Coordinator to assist the Bushcare Group with training in establishment and monitoring techniques using the following methods:On goingd.Support of any future proposal to undertake prescribed burns by SCC on North HeadMi.Set up of 2 x 4mx 4m plotsOn going	GROUP ACTION	PRIORITY	METHOD	TIME
 e. Support for cooperative research project between SCC, University of Wollongong and North Head into effects of fires and what fire regimes are required to improve the biodiversity of the North Head heathland vegetation ii. GPS plots Using vegetation condition monitoring sheets to measure vegetation cover and 	 vi. Blackberry c. Council and Bushcare group to undertake monitoring of the vegetation within the burnt area of the headland, to determine if the presence of Allocasuarina spp are reducing the diversity of the regenerating native heathland species d. Support of any future proposal to undertake prescribed burns by SCC on North Head e. Support for cooperative research project between SCC, University of Wollongong and North Head into effects of fires and what fire regimes are required to improve the 	M	 ii. Scrape and paint small Blackberry plants, larger plants report to Council Council Bushcare Coordinator to assist the Bushcare Group with training in establishment and monitoring techniques using the following methods: i. Set up of 2 x 4mx 4m plots (control plot and a active plot) ii. GPS plots Using vegetation condition monitoring sheets to measure 	On going On going

	GROUP ACTION	PRIORITY	METHOD	TIME
area) – A a. Spot s Area 1 i. ii. iii. iv. v. v. vi. b. Contro and dr c. Contro d. Under	Unburnt Area (including car park planted actions spray and hand control of annual weeds as per 1, including the following species: Blackberry Nightshade Wild Aster Winter Grass Dandelion Plantain Kikuyu Grass of of Formosan Lily along track edges using cut rip method of other perennial weeds as per Area 1 take additional and replacement planting in and d the reserve entrance car-park as required	M H M L	 a. Spot spraying all annual weeds to be done using rate of 1% of glyphosate (roundup). Annual weeds that are hand removed should be left on site unless they are seeding (See attached Bush Regeneration Info Sheet). b. Cut base of plant and drip neat glyphosate onto stem c. As per Area 1 d. Use attached species list for plant selection 	As required
	WALK	ING TRACK		1
	e Group to prune back hazardous overhanging or smaller fallen debris that is restricting access.	M	Only prune back vegetation debris to no more then 200mm from track edge	Prune up to 50mm in diameter

GROUP ACTION	PRIORITY	METHOD	TIME
Report larger fallen debris to Council Bushcare Coordinator			
PUBLIC AWRENESS AND F	RECRUITMEN	IT OF VOLUNTEERS	1
 a. Continued encouragement and recruitment of volunteers b. Working with Ulladulla Tourism Chamber and others to promote the walking track c. Installation of Bushcare Group sign at the entrance car park 	M	 a. Word of mouth and local press releases and recruitment through other means b. Seek support from Ulladulla Tourism Chamber c. Council to install Bushcare Group sign at One Track for All 	2011 -13
d. Undertake regular clean ups of rubbish throughout headland as required	M	 entrance d. Bushcare to undertake clean up with bags, gloves, tongs and sharps container provided by Council (Do not remove asbestos) 	On Going

3. NORTH HEAD – ULLADULLA BUSHCARE GROUP ACTION PLAN MAP



Map Key Monitoring Plots/Photo Points ★

4. BUSHCARE GROUP WHS & EQUIPMENT REQUIREMENTS

Type of Activity	Yes	SWMS name included
Manual weed control (cut & paint, scrape and paint etc)	\checkmark	SWMS NR060
Chemical control (spraying of herbicides)		SWMS NR040
Planting	\checkmark	SWMSNR030
Minor construction (walking track, fencing, outdoor furniture)		
Propagation & seed collection		
Education (school groups, field days etc)		
Other		

5. COUNCIL SUPPORT

- a) Install "Bushcare Group working on this reserve" sign
- b) Technical advise and training
- c) Tools and equipment
- d) Grant application and management support
- e) Printing
- f) One Bushcare Support Trainer to assist the group on site for 4 hours per month
- g) Plants
- h) Herbicide

6. HAS A SITE HAZARD AND RISK ASSESSMENT BEEN 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	2011
Gloves	2011
Sunscreen	2011

8. POSSIBLE FUTURE FUNDING

Project	Funding source
Further expansion of the previous ecological burn and research into result and fire regimes for heathland	Shoalhaven City Council, UOW, RFS and NSW Fire Service

9. PLAN WILL BE REVIEWED EVERY THREE YEARS

Next review due:

23 October 2015

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
Generic Community Land Plan of Management - Natural Areas	2001	SCC
Foreshore Reserves Policy	2005	SCC

11. BUSHCARE SITE SPECIES LIST

OVERSTOREY TREES		
Botanical	Common	
Allocasuarina distyla	She-oak	
Allocasuarina littoralis	Black She-oak	
Allocasuarina paludosa	She-oak	
Banksia integrifolia ssp. integrifolia	Coastal Banksia	
Corymbia gummifera	Bloodwood	
Eucalyptus botryoides	Bangalay	
Eucalyptus consideniana	Yertchuk	
Eucalyptus imitans	Illawarra stringybark	

SHRUBS		
Botanical	Common	
Acacia longifolia var. longifolia	Sydney Golden Wattle	
Acacia longifolia var. sophorae	Coastal Wattle	
Acacia mearnsii	Black Wattle	
Acacia myrtifolia	Myrtle Wattle	
Acacia saligna	Golden Wreath Wattle	
Acacia suaveolens	Sweet-scented Wattle	
Acacia ulicifolia	Prickly Moses or Juniper Wattle	
Baeckea imbricata	Coastal Baeckea	
Banksia ericifolia ssp. ericifolia	Heath-leaved Banksia	
Boronia polygalifolia	Dwarf Baronia	
Bossiaea prostrata	Coastal Banksia	
Bossiaea scolopendria	Plank Plant	
Breynia oblongifolia	Hairpin Banksia	
Dampiera stricta	Blue Dampiera	
Desmodium rhytidophyllum	Hairy Trefoil	
Dillwynia retorta ssp. retorta	Heathy Parrot Pea	
Dodonaea triquetra	Common Hop Bush	
Elaeocarpus reticulatus	Blueberry Ash	
Goodenia heterophylla ssp.		
eglandulosa	Hop-Goodenia	
Goodenia ovata	Star-haired Goodenia	
Goodenia stelligera	Broad-leafed Hakea	
Hakea dactyloides	Bushy Needlebush	
Hakea sericea	Dagger Hakea	
Lambertia formosa	Woolly Tea-tree	
Leptospermum grandifolium	Prickly Tea-tree	
Leptospermum juniperinum	Coastal Tea-tree	
Leptospermum laevigatum	Tea-tree	
Leptospermum squarrosum	Coastal Bearded Heath	
Leucopogon parviflorus	Lobelia	
Lobelia alata	Holly Lomatia	

Lomatia ilicifolia	Giant or Bracelet Honeymyrtle
Melaleuca armillaris ssp. armillaris	Hillock Bush
Melaleuca hypericifolia	Hillock Bush
Micrantheum eridoides	Purple Mirbelia
Mirbelia speciosa ssp. speciosa	Woolly Tea-tree
	Smooth Geebung or Wide-leaf
Parsonsia straminea	Geebung
	Smooth Geebung or Wide-leaf
Persoonia levis	Geebung
Persoonia mollis ssp. caleyi	Geebung
Petrophile sessilis	Conesticks
Phyllanthus hirtellus	Thyme Spurge
Pimelea linifolia ssp. linifolia	Rice Flower
Pittosporum undulatum	Sweet Pittosporum
Pultenaea daphnoides	Large-leafed Bush Pea
Pultenaea flexilis	Graceful Bush-Pea
Pultenaea linophylla	Small-leafed Bush Pea
Westringia fruticosa	Coast Rosemary
Zieria smithii	Sandfly Zieria

UNDERSTOREY (grasses, herbs, orchids)		
Botanical	Common	
Actinotus helianthi	Flannel Flower	
Actinotus minor	Lesser Flannel Flower	
Adiantum aethiopicum	Common Maidenhair Fern	
Adiantum aethiopicum	Fishbone Water Fern	
Anisopogon avenaceus	Oat Speargrass	
Aristida vagans	Three-awned Speargrass	
Baloskian gracile	Cord-rush	
Blandfordia nobilis	Christmas Bells	
Blechnum nudum	Fishbone Water Fern	
Brunoniella pumilio	Dwarf Trumpet	
Burchardia umbellata	Milkmaids	
Calochilus campestris	Copper Beard Orchid	
Caustis recurvata var. recurvata	N/A	
Comesperma sphaerocarpum	Fairies' Wings	
Commelina cyanea	Creeping Christian or Scurvy Weed	
Convolvulus erubescens	Blushing Bindweed	
Cryptostylis erecta	Hooded Orchid	
	Large Tongue Orchid or Duck	
Cryptostylis subulata	Orchid	
Cyathea cunninghamii	Slender Tree Fern	
Cymbidium suave	Snake Flower or Tree Orchid	
Dianella caerulea var. caerulea	Blue Flax Lily	
Dianella caerulea var. producta	Blue Flax Lily	
Dipodium variegatum	Hyacinth Orchid	
Diuris aurea	Golden Donkeytail Orchid	
Drosera peltata	Sundew	

Epacris microphylla var. microphyllaCoral HeathGahnia radulaSaw Sedge or Sword GrassGahnia sieberanaSaw SedgeGleichenia dicarpaPouched Coral FernGlossodia minorWaxlipsGlycine clandestinaLove Creeper or Twinning GlycineGlycine microphyllaLove CreeperHelichrysum collinumYellow Everlastings or Paper-daisiesHibbertia cistiflora ssp. cistifloraTrailing Guinea FlowerSpade Flowers, Ladies Slipper, orSlender VioletHypoxis hygrometrica sp.Yellow StarsImperata cylindrica var. majorBlady GrassJuncus planifoliusBroad-leaf RushLagenifera stipiataDruceLepidosperma lateraleSword-sedgeLepidosperma lateraleScrew FernLomandra brevisTufted Matt RushLomandra filiformis ssp. coriaceaWattle Matt RushLomandra filiformis ssp. coriaceaWattle Matt RushLomandra filiformis ssp. coriaceaMatt RushLomandra fulfioraSlender Onion OrchidMitrexortMany Flowered Matt RushLomandra plauiaFish BonesLycopodiella cernuaCliff ClubmossLycopodiella cernuaSlender Onion OrchidMitresacre polymorphaMitrewortNotodanthonia longifoliaDaisy BushOpercularia asperaThin Stink WeedOpercularia asperaThin Stink WeedOpercularia asperaThin Stink WeedOpercularia variaStinkweed	Drosera spathulata	Common Sundew or Rosy Sundew
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Bird's Mouth Orchid or Horned	Opercularia aspera	Thin Stink Weed
	Opercularia varia	Stinkweed
		_
Orthoceras strictum Orchid	Orthoceras strictum	
Oxalis rubens N/A		N/A
Ozothamnus diosmifolium Everlasting or Paper Daisy	Ozothamnus diosmifolium	· · · · ·
Panicum simileTwo Colour Panic	Panicum simile	Two Colour Panic
Parsonsia straminea Monkey Rope or Common Silkpod	Parsonsia straminea	Monkey Rope or Common Silkpod
Patersonia sericea Short Purple Flag	Patersonia sericea	Short Purple Flag
Plantago debilis Slender Plantain	Plantago debilis	Slender Plantain
Polymeria calycina Swamp Bindweed	Polymeria calycina	
Prasophyllum flavum Yellow Leek Orchid		Yellow Leek Orchid
Pratia purpurascens White Root	Pratia purpurascens	White Root
Pteridium esculentum Bracken		Bracken
Ptilothrix deusta Sedae	Ptilothrix deusta	Sedge

Ranunculus lappaceus var.	
lappaceus	Rough Groundsel
Schizaea bifida	Forked Comb Fern
Selaginella uliginosa	Common Maidenhair Fern
Senecio hispidulus var. dissectus	Rough Groundsel
Smilax glyciphylla	Native Sarsaparilla
Solanum pungetium	Eastern Nightshade
Sowerbaea juncea	Vanilla Lily
Sphaerolobium vimineum	Leafless Globe-pea
Spiranthes sinensis	Austral Ladies Tresses
Stackhousia nuda	N/A
Stackhousia viminea	Grass Trigger Plant
Stylidium graminifolium	Rough Groundsel
Thelionema caespitosa	Tufted Blue Lily
Thelionema umbellata	N/A
Thelymitra carnea	Pink Sun Orchid
Thelymitra ixioides	Spotted or Blue Sun Orchids
Themeda australis	Kangaroo Grass
Thysanotus tuberosus	Fringe Lily
Veronica plebeia	Speedwell
Viola hederacea	Native Violet
Viola sieberana	Tiny Violet

UNDERSTOREY (vines & climbers)		
Botanical	Common	
Hibbertia scandens	Golden Guinea Flower	
Kennedia prostrata	Running Postman	
Kennedia rubicunda	Dusky Coral Pea	
Eustrephus latifolius	Wombat Berry	
Billardiera scandens var. scandens	Apple Berry or Dumplings	
Parsonsia straminea	Monkey Rope Vine	

12. SITE WEED LIST

Noxious	Environmental
	Blackberry nightshade (Solanum nigrum)
	Dandelion (Taraxacum sp)
	Fleabane (Conzea bonearensis)
	Formosan Lily (Lillium formosanum)
	Ink Weed (Phytolacca octandra)
	Paramatta grass (Sporobolus africanus)
	Paspalum (Paspalum dilatum)
	Purple Top (Verbena litoralis)
	Scotch thistle (Onopordum acanthium)
	Sow Thistle (Sonchus oleraceus)
	Turkey Rhubarb (Acetosa sagitata)
	Whiskey Grass (Andropogon virginicus)
	Wild Aster (Symphyotrichum
	subulatum)
	Winter Grass (Poa annua)
Blackberry (Rubus fruiticosus)	
Lantana (Lantana camara)	

Bushcare Group Name North Head - Ulladulla

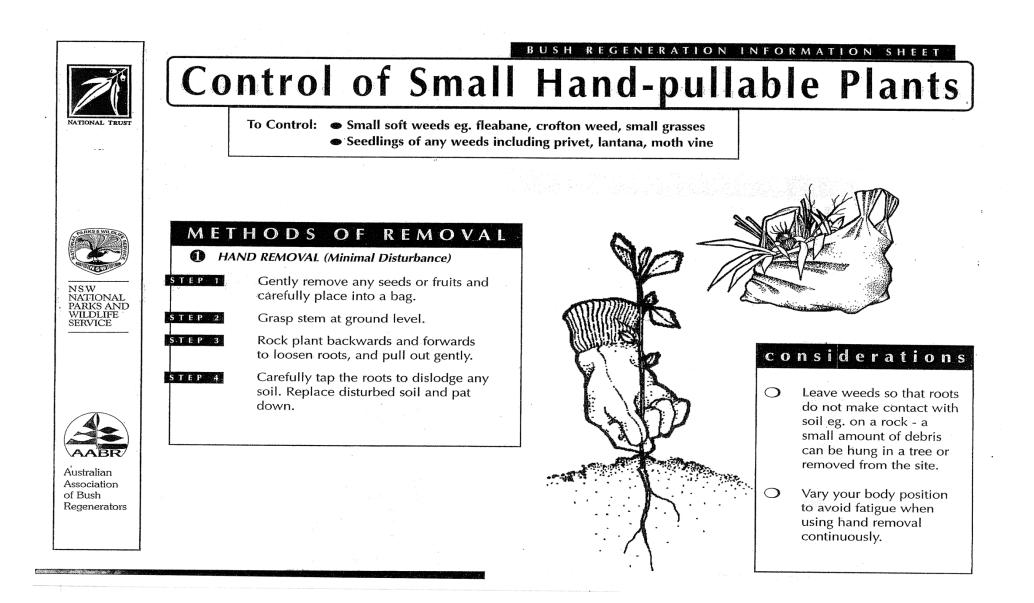
Coordinator Name Peter Loyd

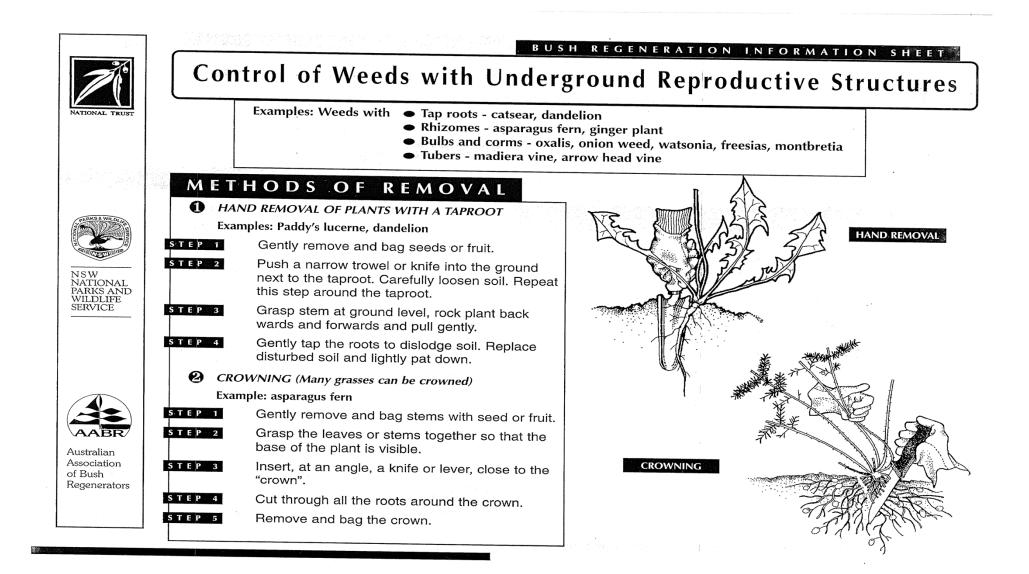
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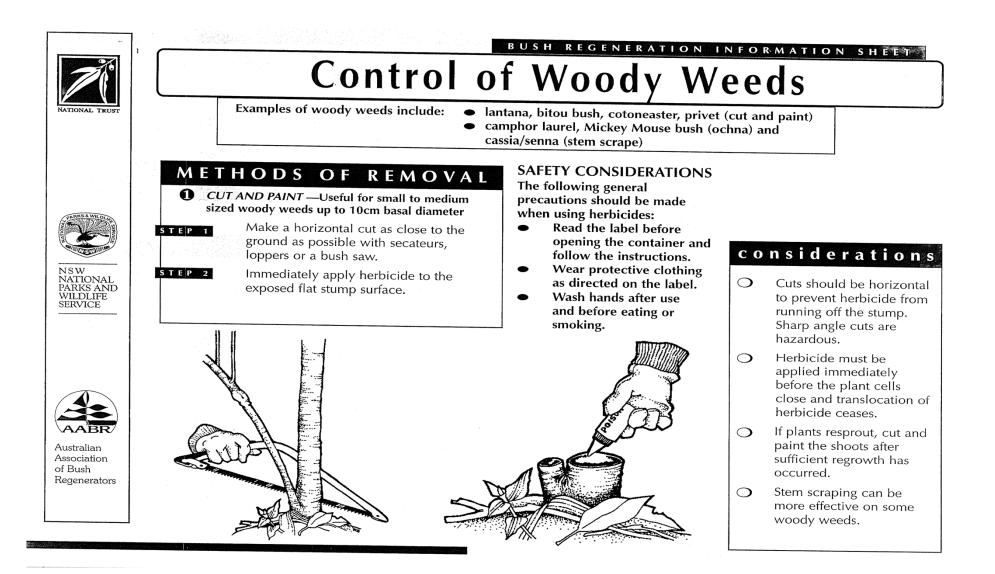
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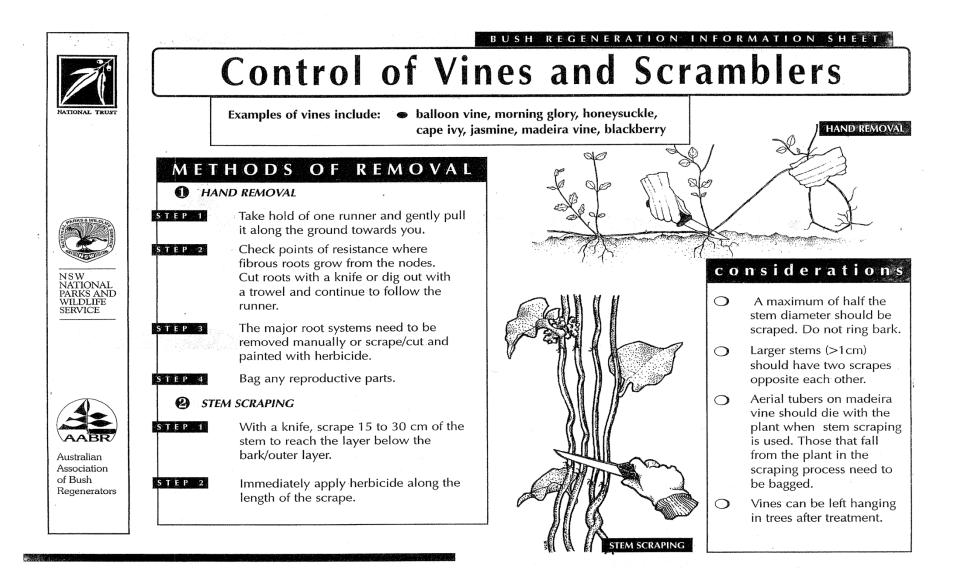
Attachments – Bush Regeneration Information Sheets (National Trust)

- 1. Control of Weeds with Underground Reproduction Structures,
- 2. Control of Vines and Scramblers
- 3. Control of Small Hand Pullable Plants,
- 4. Control of Woody Weeds

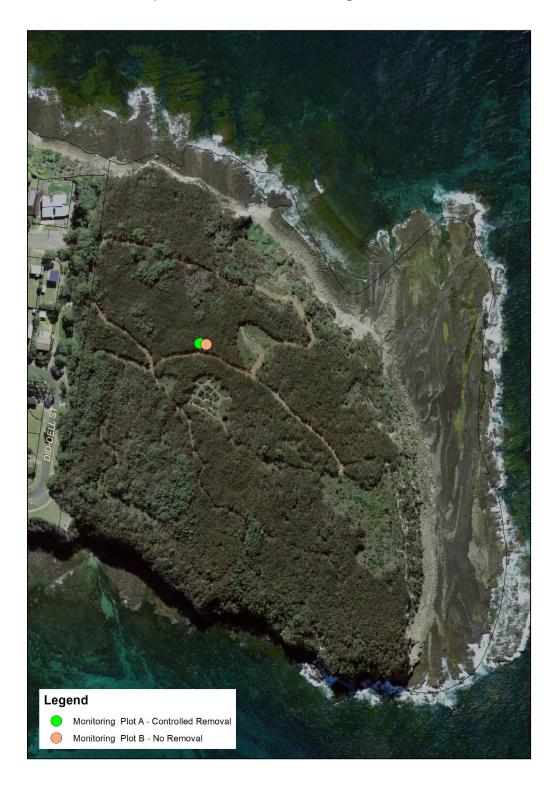








NORTH HEAD (ULLADULLA) BUSHCARE ACTION PLAN Page 17 of 18



Map – Location of monitoring sites