North Arm Bushland Actions

Priorities will be given to programs for the long term benefit to the reserve. Natural assets at greatest risk will be given priority to avert irreversible deterioration. All measures cannot be implemented simultaneously - resources may not be available or it may not be appropriate.

- 1. Bush Regeneration Contractors to complete natural area restoration works in riparian zone targeting the removal of Privet, Arundo Grass, Asparagus Fern and Mist Flower.
- 2. Monitor area for reserve impacts from sewer line overflows.
- 3. Water monitoring site conducted by Sydney Water quarterly and macroinvertebrate surveying completed biannually.
- 4. Bush track maintenance access path to be defined further with vegetation pruned to allow continuous access for bushland restoration works.
- 5. Bush Regeneration Contractors to complete natural area restoration works in riparian and estuary zone.
- 6. North Arm Reserve and Scotts Creek Parkcare Bushcare groups to periodically visit sites along Scotts Creek to complete restoration work in riparian zone.
- 7. Willoughby City Council's (WCC) Bushland Regeneration Team and Fire and Rescue NSW to prepare and conduct two separate prescribed burns along the Sydney Water access road, entry between 149 and 153 Deepwater Road. The burns will encourage the regeneration of the listed rare Eucalyptus luehmanniana.
- 8. Bush Regeneration Contractors to complete natural area restoration work across two stormwater lines.
- 9. Continue to monitor stormwater line for erosion.
- 10. Bush Regeneration Contractors to complete natural area restoration works along stormwater lines removing woody weeds and vines.
- 11. Bush Regeneration Contractors to complete natural area restoration works on fill embankment.
- 12. WCC Bushland Support Team to periodically trim vegetation on roadway to allow clear access to Willis Road Wharf.
- 13. Monitor and remove debris from inlet pit from road side gutter.
- 14. Monitor and investigate options for permanent storage of dinghies informally kept on foreshore.
- 15. Bush Regeneration Contractors to monitor and treat woody and vine weed species, particularly Asparagus Fern along reserve boundaries with residents.
- 16. WCC Bushland Support Team to continue weed control in stormwater line and adjacent to reserve.
- 17. Monitor, manage and retain sandstone drainage lines as threatened species habitat as per bushland management principle q) and the Save Our Species Program.
- 18. Contractors to collect litter along the creekline to the estuary.
- 19. Monitor encroachments along Deepwater Road, Mannerim Place, Morella Drive, Willis Road, Cherry, Place, Emerstan Drive and Eastern Valley Way, as per Council records.
- 20. Contractors to conduct periodic litter clearing along Scotts Creek down to the estuary and on all drainage lines into the reserve, approximately alternate months (with adjustment for rain events that overflow rubbish past the GPTs).





RESERVE ACTION PLAN NORTH ARM RESERVE



Plan details

Status:	Final
Prepared by:	N. Yu
Drawn by:	N. Prasad
Date printed:	10/02/2021
Approximate Scale:	1:6600 on A3

Legend

	Property number
12	Action plan activity
۲	Stormwater node
•	Sewer access chamber **
\bigtriangledown	Approximate fire hydrant location
•	Power pole
-35	10m contours
	Stormwater network - Underground *
$\rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow$	Stormwater network - Overground / Unknown *
	Creek
	Bushland Track / Path *
	Maintenance Track / Path *
	Property boundary
	Reserve / bushland
	Council staff regeneration site
	Council bush regeneration contractors
	BushCare group
	Proposed prescribed burn area

The accuracy of this data is not guaranteed and must be verified prior to use.

<u>References</u>

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North Arm Reserve Action Plan

Reserve Profile

North Arm Reserve is a long linear bushland reserve 45.9ha in size that follows the northern shoreline of Fig Tree Cove located in Scotts Creek catchment. Castle Cove and Middle Cove.

It is Council's largest bushland reserve and is part of a continuous green corridor from Explosives Reserve to the north, Willis Park to the west, and Harold Reid Reserve to the south.

It consists of steep sandstone slopes that form a large valley running down to Scotts Creek and the northern embankment of Fig Tree Cove

The 4.5km North Arm Walking Track passes through the entire reserve, connecting Explosives Reserve to Harold Reid Reserve.

PLANT COMMUNITY: The reserve is primarily Coastal Sandstone Gully Forest [S_DSF09] with Coastal Upland Wet Heath Swamp IS FrW021 at the mouth of Scotts Creek to Fig Tree Cove. The rest of the reserve is comprised of scattered areas of Esturine Mangrove Forest [S_SW01], Coastal Enriched Sandstone Dry Forest [S_DSF04], Coastal Sandstone Gallery Rainforest [S_RF02] and Coastal Enriched Sandstone Moist Forest [S_WSF02].

Statement of Significance

North Arm Reserve is classified as bushland as defined in State Environmental Planning Policy No 19 (*Vol 1, 1.4), and is protected under State and Commonwealth Legislation (*Vol 1, 1.5.2). It is zoned E2 Environmental Conservation in the Willoughby Local Environment Plan (WLEP) 2012. North Arm is designated as a Wildlife Protection Area under the Companion Animals Act 1988.

ABORIGINAL CULTURAL SIGNIFICANCE: The Gamaragal clan originally occupied North Arm Reserve. Indigenous people utilised this area for its clean fresh and saltwater resources. The reserve contains significant sandstone rock ledges that were used for shelter. Middens, shelter middens and shelter deposit sites have been recorded in the reserve.

NATURAL HERITAGE SIGNIFICANCE: North Arm Reserve is significant due to its connectivity with other surrounding bushland reserves. The reserve also provides a variety of habitats for both terrestrial and marine species. Rocky foreshore provides habitat for small reptiles and invertebrates. The thick forest undergrowth and sandstone heath provides habitat for large Marcopods such as Swamp Wallabies.

HISTORIC CULTURAL SIGNIFICANCE: Adjoining the reserve is a castle residence that Dr Henry Willis began constructing in 1903 using sandstone guarried on his 52 acre property. It took 18 months to complete and was named Innisfallen Castle after a ruined abbey in Killarnev, Ireland. At that time access was only by boat, so a private wharf was constructed to carry supplies to the building site. Both the castle and wharf are now listed as heritage items on the NSW Heritage Register and Local Government Heritage Register, respectively.

The Scotts Creek Sewage Aqueduct which stretches across Scotts Creek spanning 46.3m in length is also listed on the Local Government Heritage Register. It was constructed in 1929 as part of the Northern Suburbs Ocean Outfall Sewer and is registered for its past and ongoing use, technology of construction and setting with the steep valley of Scotts Creek.

HABITAT SIGNIFICANCE: Due to its large size, diverse plant communities, topography and minimal tracks, North Arm Reserve provides refuge for many wildlife species. The reserve encircles a large area of mangrove with remnant saltmarsh and the upper reaches of the creek provide fresh water. As a wildlife corridor it allows species to pass east/west and north/south. Significant species include Swamp Wallaby, Long-nosed Bandicoot, Short-beaked Echidna, Brown Antechinus, Red Crowned Toadlet, Superb Lyrebird, Buff-banded Rail, Azure Kingfisher and Powerful Owl.

Reserve Impacts

North Arm Reserve is long and relatively thin, with a walking track dissecting it through the middle and is subject to urban impacts and

pressures. Numerous stormwater and sewer lines pass through the reserve creating soil disturbance and weed outbreaks in these areas. Scotts Creek after rainfall carries significant amounts of water via stormwater from the hard surfaces further upstream in Chatswood causing erosion along the creek bank. Large amounts of rubbish, increased nutrient and sediment loads are also carried by stormwater. Rubbish accumulates along the entire length of the creek bank particularly in the estuary zone at the creek mouth. The increased sediment flowing down the creek over a long time has also a) led to the enlargement of the mangroves in the estuary. Further stormwater management is required in the upper catchment in the Chatswood CBD to mitigate rubbish and sediments from washing down into North Arm Reserve. b)

ENCROACHMENTS: Most encroachments are extensions of gardens c) and lawns beyond property boundaries. All known encroachments are identified on the front of this plan.

Wildlife Habitat Issues

Threats to wildlife and habitat include: predation by foxes, rats and feral and/or domestic cats, loss of tree hollows to invasive feral European honey bees, degradation of habitat from illegal vegetation e) removal, weed encrochments from adjacent property boundaries, erosion and sediment build up along the banks of Scotts Creek, f) stormwater and sewer lines, as well as pollution from sewer overflows and stormwater. Tracks and drainage lines provide habitat for a threatened species. Current maintanence and management practices can harm this species and reduce its habitat, requiring g) specific measures to avoid these impacts.

Achievements

Track upgrades have been completed throughout the whole reserve h) to improve access, particularly from Mannerim Place to H.C. Press i) Park. The bridge over Scotts Creek below the Scotts Creek sewage aqueduct has been maintained including armouring of embankments.

Restoration work along the estuary and the Sydney Water access road has been completed and continues. This work included the removal of weeds, bank stabilisation, transplantation of mangroves k) and revegetation with native plants.

Sandstone restoration work of the sea wall has been completed at the Willis Road Wharf and at the boat storage area.

Stormwater lines have been improved and stabilised by rock armouring and revegetated with native plants

A large prescribed burn was completed at the western side of the Sydney Water access road to enhance the diversity of plants and wildlife found in the reserve and to also reduce fuel loads for bushfire n) risk management.

The feasibility of installing a gangway and pontoon access from the existing infrastructure at the Willis Road Wharf, owned by NSW Maritime was reviewed in conjunction with Transport NSW but is not o) proceeding at this time.

Liaison with residents adjacent to the reserve has been ongoing to p) minimise reserve impacts

Bushland Management Goals

To This bushland Reserve Action Plan has identified the following management aims from the Urban Bushland Plan of Management a) 2014 as priority objectives:

5.3b: To create and or maintain conditions in which creek and drainage lines are protected from increased erosion and/or sedimentation due to urban impacts.

5.4b: To maintain the integrity of bushland reserves through the reduction of encroachments and other boundary impacts.

6.2f: To preserve and increase ecological links across the LGA and regionally to assist the movement of fauna.

6.2g: Maintain natural habitat formations and supplement with manufactured structures where natural habitat has been depleted. 6.3b: To implement weed control programs which are based on regeneration and restoration principles and which increase bushland

resilience to further weed infestation.

7.1g: To manage fire such that the fire regime and implementation of the burn is beneficial to flora and fauna diversity and habitat. 10.1b: To ensure that leases and licences for activities undertaken in.

or adjoining, or impacting on, bushland areas are compatible with the sustainable management of bushland.

Bushland Management – General Principles and Actions

- Bushland regeneration is a long term process requiring staged weed removal to ensure establishment of native plant communities. Work will proceed from good bush to degraded areas with techniques that encourage regeneration.
- If possible, weed refuse and natural debris composted on-site.
- If natural regeneration is deemed inadequate, supplementary plantings to mimic local plant communities and landscapes will be used with local provenance species.
- Standing dead trees and forest litter (including logs/branches) to be kept for wildlife habitat unless deemed a risk to safety.
- Monitor, maintain and enhance vegetation connectivity for wildlife habitat within the reserve and reserve networks.
- Phytophthora cinnamomi (a root rot pathogen) is listed as a key threatening process in NSW. Bushland workers are to use hygiene protocols to minimise risk.
- Report and record all reserve encroachments. Monitor for tree vandalism and/or removal and report to Council Compliance for appropriate action.
- Monitor wildlife habitat and supplement where necessary.
- Monitor feral animal activity and implement appropriate management actions where necessary.

Encourage the community to report wildlife sightings via the Wildlife Watch Program.

- Bushfire management will be achieved through implementation of a strategic hazard reduction program consistent with the Bushfire Risk Management Plan.
- Species diversity will be maintained by an ecological burn program in a mosaic pattern.
- Monitor and protect Aboriginal cultural heritage sites. Bushland m) staff to notify Aboriginal Heritage Office prior to a burn to identify sites and implement protection measures.
 - Preserve natural features for educational purposes and continue to inform the community of bushland issues through onsite activities and signage. Maintain appropriate signage.
 - Formal tracks to be maintained and unwanted tracks to be closed to prevent damage to habitat and to impede access of feral animals, unless used for access by bushland workers.
- Establish photo points to monitor work and review annually. Protection of habitat is required for flora and fauna species found in reserves listed under State and Commonwealth legislation as threatened species.
- The collection of rubbish from bushland is carried out by Council contractors and bushland field staff as required.

Animal List for North Arm Reserve

North Arm Reserve provides habitat for a number native animals. A list of these species can be found at:

https://www.willoughby.nsw.gov.au/files/sharedassets/public/ecm/will oughby-council-website/publications-reports-master-plans-strategiesaction-plans/publications-reports-master-plans-strategies-actionplans/1-native_fauna_of_bantry_bay_sugarloaf_bay_catchments.pdf

Native Plant Species List for North Arm Reserve

FORK FE

Psilotum n CONIFERS CUPRESSAC Callitris rho

PODOCARPA Podocarpu FERNS

THELYPTER Christella DICOTS

ARALIACEA Astrotriche Astrotriche Hydrocoty Polyscias

CAMPANULA Lobelia and Cobelia pur Casuarina Allocasuari Casuarina

FORK FERNS	Acrotriche divaricata	Myrsine variabilis
PSILOTACEAE	Brachyloma daphnoides	Samolus repens
Psilotum nudum	Dracophyllum secundum	PROTEACEAE
CONIFERS	Epacris crassifolia	Banksia ericifolia
Callitris rhomboidea	Epacris longiflora	Banksia integritolia Ranksia marginata
PODOCARPACEAE	Leucopogon amplexicaulis	Banksia oblongifolia
Podocarpus spinulosus	Leucopogon microphyllus	Banksia serrata
FERNS	Lissanthe strigosa	Banksia spinulosa
Adiantum aethiopicum	Monotoca elliptica Strobelia longifolia	Conospermum longitolium Grevillea buxifolia
Adiantum formosum	Woollsia pungens	Grevillea speciosa
Adiantum hispidulum	EUPHORBIACEAE	Hakea dactyloides
Cheilanthes sieberi	Monotaxis linifolia	Hakea gibbosa
Pellaea faicata	Homalanthus populitolius Ricinocarpos pinifolius	Hakea propingua Hakea salicifalia
Asplenium australasicum	FABACEAE FABOIDEAE	Hakea sericea
Asplenium flabellifolium	Bossiaea heterophylla	Hakea teretifolia
BLECHNACEAE Blochnum amhiauum	Bossiaea scolopendria	Isopogon anethifolius
Blechnum cartilagineum	Givcine clandestina	Lomatia myricoides
Blechnum nudum	Glycine tabacina	Lomatia silaifolia
Doodia aspera	Gompholobium latifolium	Persoonia lanceolata
Doodia caudata	Hardenbergia violacea Hovea linearis	Grevillea Inearitolia Grevillea sericea
Cyathea australis	Phyllota phylicoides	Persoonia levis
Cyathea cooperi	Pultenaea daphnoides	Persoonia pinifolia
Cyathea leichhardtiana	Pultenaea tuberculata	Petrophile pulchella
UENNSTAEDTIACEAE Histionteris incisa	Pultenaea flevilis	RANUNCULACEAE
Hypolepis muelleri	Pultenaea polifolia	Clematis aristata
Pteridium esculentum	Pultenaea stipularis	RHAMNACEAE
DICKSONIACEAE	Viminaria juncea	Pomaderris aspera
GLEICHENIACEAE	Acacia binervia	Pomaderris intermedia
Gleichenia dicarpa	Acacia decurrens	Rubiaceae
Gleichenia microphylla	Acacia elata	Gynochthodes jasminoides
Sticherus lobatus	Acacia inoliburida Acacia implexa	Opercularia aspera Opercularia hispida
Sticherus flabellatus	Acacia linifolia	RUTACEAE
HYMENOPHYLLACEAE	Acacia longifolia	Boronia ledifolia
Hymenophyllum cupressiforme	Acacia mearnsii Acacia parramattensis	Boronia pinnata
Lindsaea linearis	Acacia parramattensis Acacia suaveolens	Phebalium dentatum
Lindsaea microphylla	Acacia terminalis	Nematolepis squamea v. squamea
Osmandaceae	Acacia ulicifolia	Phebalium squamulosum
Polypoplaceae	GOODENIACEAE Damniera stricta	SARINDACEAE
Microsorum scandens	Goodenia bellidifolia	Dodonaea triquetra
Notogrammitis billardierei	Scaevola ramosissima	STYLIDIACEAE
Platycenum bilurcatum Pvrrosia rupestris	Velleia spathulata	Thymeliaceae
SCHIZAEACEAE	HALORAGACEAE	Pimelea linifolia
Schizaea dichotoma	Gonocarpus teucrioides	VITACEAE Ciesus hunoglauca
THELYPTERIDACEAE	Coleus parvifolius	MONOCOTS
Christella dentata	Clerodendrum tomentosum	ARECACEAE
Acanthaceae	Cassytha glabella	COMMELINACEAE
Pseuderanthemum variabile	Cassytha pubescens	Commelina cyanea
ANTHERICACEAE Tricon ma alma law	LOGANIACEAE	CYPERACEAE
AIZOACEAE	Mitrasacme polymorpha	Carex Inversa Caustis flexuosa
Tetragonia tetragonioides	LORANTHACEAE	Caustis pentandra
Acanthaceae	Amyema congener	Cyperus brevifolius
Avicennia marina Apiaceae	Anyema miqueiii Mai vaceae	Gahnia clarkei
Actinotus helianthi	Lasiopetalum ferrugineum	Gahnia sieberiana
Actinotus minor	Menispermaceae	Lepidosperma filiforme
Platysace lanceolata	Sarcopetalum harvevanum	Schoenus imberbis
Platysace linearifolia	Moraceae	Schoenus turbinatus
Platysace stephensonii	Ficus coronata	IRIDACEAE
Xanthosia pilosa Xanthosia tridentata	Ficus rubininosa	Patersonia giabrata Patersonia sericea
APOCYNACEAE	Myrtaceae	JUNCACEAE
Marsdenia suaveolens	Acmena smithii	Juncus kraussii
Parsonsia straminea Tylophora barbata	Angophora costata Angophora crassifolia	LOMANDRACEAE
ARALIACEAE	Angophora bispida	Lomandra filiformis
Astrotricha latifolia	Austromyrtus tenuifolia	Lomandra glauca
Astrotricha floccosa Hydrocotyle sibthornioides	Corymbia gummitera Darwinia fascicularis	Lornandra longitolia
Polyscias sambucifolia	Eucalyptus botryoides	ORCHIDACEAE
Asteraceae	Eucalyptus globoidea	Cryptostylis erecta
Euchiton iaponicus	Eucalyptus naemastoma Eucalyptus luehmanniana	Dendrobium linguiforme
Ozothamnus diosmifolius	Eucalyptus pilularis	Pterostylis pedunculata
Senecio hispidulus Sincebeckie erientelin	Eucalyptus piperita	Pterostylis sp.
BLANDFORDIACEAE	Eucalyptus punctata Eucalyptus sieberi	POACEAE
Blandfordia nobilis	Kunzea ambigua	Anisopogon avenaceus
BIGNONIACEAE Pandoraa pandorana	Kunzea capitata	Digitaria parviflora
CAMPANULACEAE	Leptospermum squarrosum	Echinopogon caespitosus
Lobelia anceps	Leptospermum trinervium	Echinopogon ovatus
Lobelia purpurascens	Syncarpia glomulifera Tristanioosis laurina	Entolasia marginata Entolasia stricto
Allocasuarina distyla	OLEACEAE	Eragrostis brownii
Allocasuarina littoralis	Notelaea longifolia	Eragrostis trachycarpa
Casuarina glauca	OXALIDACEAE	Imperata cylindrica Microlaena stinoides
Atriplex australasica	Ovalis sp	to the second seco
	Oxalis sp. Plantaginaceae	Oplismenus imbecillis
Sarcocornia quinqueflora	Oxalis sp. PLANTAGINACEAE Veronica calycina	Oplismenus imbecillis Oplismenus aemulus
Sarcocornia quinqueflora CUNONIACEAE Revera rubioidas	Oxalis sp. PLANTAGINACEAE Veronica calycina PHORMIACEAE Dianella cagarulaa	Oplismenus importes Oplismenus aemulus Panicum effusum Paseakum vadinatum
Sarcocornia quinqueflora CUNONIACEAE Bauera rubioides Callicoma serratifolia	Oxalis sp. PLANTAGINACEAE Veronica calycina PHOBNIACEAE Dianella caerulea Dianella prunina	Oplismenus imbecilis Oplismenus aemulus Panicum effusum Paspalum vaginatum Pos affinis
Sarcocornia quinqueflora CUNONIACEAE Bauera rubioides Callicoma serratifolia Ceratopetalum apetalum	Dvalis sp. PLINTKGINGEAE Veronica calycina Phiopanaccae Dianella caerulea Dianella caerulea Dianella prunina PirruLANYANCEAE	Dplismenus imbecilis Oplismenus aemulus Panicum effusum Paspalum vaginatum Poe affinis Sporobolus virginicus
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2021 - 2026