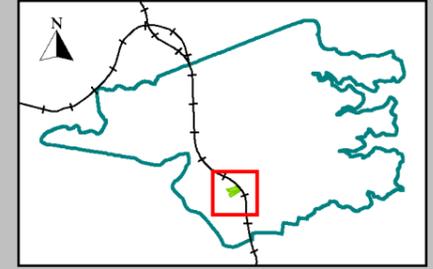


Artarmon Park Bushland Actions

1. Investigate options to install an interpretive sign demonstrating the importance of this Park as a wildlife corridor and how it links wildlife to larger bushland reserves within the region.
2. As aging bollards along Parkes Road disintegrate investigate options to replace with indigenous trees like Turpentine. Potential tree plantings will be spaced widely apart and possibly combined with some small shrubs and groundcovers.
3. Bushland Regeneration Contractor to define the edge between grass and bushland using logs where appropriate.
4. Monitor the condition of all stormwater lines within the Park and complete repair work where necessary. Weeds that have accumulated in stormwater lines will have routine maintenance sweeps completed by bushland regeneration contractors to remove vegetation and excess sedimentation.
5. Adjust stormwater channel so water flow is contained within the armoured channel.
6. Bushland regeneration contractor to target heavily infested areas of Privet and Lantana particularly around stormwater lines. These weeds will require gradual removal to retain habitat values and to restrict new weeds establishing. Regular maintenance sweeps will be required after initial removal and possible infill native plantings may be required to stabilise the slope and create wildlife habitat.
7. Bushland Regeneration Contractor to complete primary weed removal targeting weed vines Honeysuckle and Morning Glory below the advertising billboard.
8. Bushland regeneration contractor to complete maintenance sweeps in stable area previously worked targeting weed vines, ground covers and annuals. Native Water Vine (*Cissus hypoglauca*) should be maintained to current area so it does not spread and dominate other native species. Infill native plantings may be required in sections to strengthen the understorey and screen sight of the freeway.
9. Bushland regeneration contractor to complete primary and secondary weed removal targeting Lantana, Camphor Laurel, Privet, Morning Glory and Trad. Removal is required in stages to avoid exposing views of the Freeway. Infill native plantings will be required in sections to encourage regeneration and screen the Freeway. Regular maintenance sweeps will be required after initial work.
10. Bushland Regeneration Contractor to complete maintenance sweeps targeting the removal of Cape Broom, Boston Ivy, London Plane Tree, Creeping Fig and annuals along with rubbish collection in area along the shared path.
11. Bushland regeneration contractor to plant native shrubs and ground covers in sections along the shared path to improve local amenity. Durable species will be planted due to exposure and potential high impacts. Follow-up watering and maintenance is required.
12. Willoughby City Council wildlife officers to investigate options to install supplementary terrestrial and arboreal habitat for native wildlife in the Park.
13. Willoughby City Council wildlife officers to complete surveys and monitor wildlife populations throughout the Park.
14. Investigate options with Roads and Maritime Services to remove rubbish in stormwater retention pond.



RESERVE ACTION PLAN ARTARMON PARK



Plan details

Status: Final
 Prepared by: S. Hall
 Drawn by: H. Suba
 Date printed: 30/11/2016
 Approximate Scale: 1:1500 on A3

Legend

- 15 Property number
- 12 Action plan activity
- Stormwater node
- ▼ Approximate fire hydrant location
- 35 5m contours
- Stormwater network - Underground *
- Stormwater network - Overground / Unknown *
- Property boundary
- ▨ Council bush regeneration contractors

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

References

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Artarmon Park Bushland Reserve Action Plan

Reserve Profile

Artarmon Park is a small local reserve approximately 2.3 hectares in size that is divided in two by the Gore Hill Freeway. It consists of bushland and an open recreational grass area to the north of the Freeway and a stormwater retention pond, garden beds and a shared bicycle/walking path to the south. Management of the Park is divided between Willoughby City Council and Roads & Maritime Services.

Flat Rock Creek begins within Artarmon Park and is fed by underground stormwater pipes coming from nearby residential streets, the freeway and streets from the Artarmon Industrial Area. It starts as an open concrete culvert and then continues underground in pipes through to Artarmon Reserve. Artarmon Park is located in the Flat Rock Creek catchment which is part of the larger Middle Harbour water catchment.

Previously the Park was part of a larger 19 hectare reserve until 1900 when the northern section was subdivided for housing, and the remaining land was gazetted as Artarmon Park on 11 August 1900. The Park underwent major changes during the late 1980s through to 1992 with the construction of the Gore Hill Freeway which reduced and altered the park size by approximately half. Further changes and a reduction in the size occurred between 2004 and 2007 with the construction of the Lane Cove Tunnel.

PLANT COMMUNITY: Artarmon Park is classified as Sydney Sandstone Gully Forest [10agii (Tof)] with dominant species *Eucalyptus pilularis* and *Syncarpia glomulifera*. These two species form a dense tree canopy along with *Pittosporum undulatum*. The understory is disturbed in sections with weed infestations of Privet and Lantana which reduce the amount of available space for native plants. In areas where large amounts of weeds have been removed infill planting of natives has been completed to re-establish the mid-storey and ground layers. These areas are beginning to become stable but still require maintenance weeding. To reduce the visual impact of past disturbances like the construction of the freeway, there have been replacement plantings. These plantings have been effective to screen the freeway from houses however the species used have not always been local indigenous plants. Some species particularly *Allocasuarina* have flourished and are now a problem in sections and require gradual removal.

HABITAT: The varied mix of vegetation forms including tall trees provide habitat for large and small birds and mammals. There are large rock ledges and outcrops that provide habitat for reptiles and invertebrates.

Statement of Significance

Artarmon Park 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 RE1 Public Recreation in the Willoughby Local Environment Plan (WLEP) 2012.

ABORIGINAL CULTURAL SIGNIFICANCE: There are no recorded Aboriginal cultural sites in Artarmon Park.

HISTORIC CULTURAL SIGNIFICANCE: Artarmon Park was named after Ardthelmon (or 'Artramon') Castle, the Irish home of William Gore. Gore owned land in the area including a large reserve extending from Gore Hill to Artarmon, of which Artarmon Park was a part. The construction of the railway in the late 1880s separated Artarmon Park from Artarmon Reserve.

HABITAT SIGNIFICANCE: While Artarmon Park is a relatively small bushland reserve it plays a significant role as a wildlife corridor linking other larger bushland areas within the Willoughby local government area and beyond. The Park is centrally located in Willoughby and is a link between the larger Middle Harbour bushland reserves of Flat Rock Gully, Northbridge Park and the Castlecrag network and also with the large Lane Cove River

reserves of Ferndale and Mowbray Park. The Park also links to important bushland reserves within the Lane Cove area. These linkages are significant as they allow the migration of plants and animals throughout this highly urbanised and fragmented landscape and help to maintain local biodiversity.

The Park is adjacent to Artarmon Reserve however it is divided by the train line. Taylor Lane Reserve is adjacent on the other side but is divided by Hampden Road.

Reserve Impacts

Artarmon Park is located in an urbanised area adjacent to medium density residential housing and also general and light industrial areas. Its close proximity to these areas often results in illegal vegetation dumping occurring, particularly along the Punch Street boundary.

Grass along Parkes Road is a designated dog off-leash area so there is potential for dogs to enter bushland and disturb wildlife.

There are numerous stormwater lines running into and through the Park with the sloping terrain that have concentrations of weeds. Regular maintenance weed removal is required to ensure that weeds do not spread further into the Park. The lines entering the Park south of the Gore Hill Freeway collect contaminants from roads including the freeway and accumulate in the retention pond. Further water testing is required to determine the water quality and impacts to wildlife. Tall tree cover should be minimised around the pond to maximise ultraviolet water treatment.

On the eastern boundary next to the railway line there is a large advertising billboard. Sydney Rail contractors regularly cut back vegetation below this billboard to ground level to retain views.

ENCROACHMENTS: There are no known encroachments.

Wildlife Habitat Issues

The size of the Park means that the amount of core habitat available for wildlife is quite small. Combine this with the urban location and that the Gore Hill Freeway runs through the middle means that only highly urbanised species will be found here. Noise and light pollution is an issue from the freeway that restricts the type of wildlife using the Park.

The open recreational grass area is designated as a dog off-leash area and there is potential for dogs that are not being actively watched by their owners to stray into adjacent bushland.

As mentioned previously, Artarmon Park is significant for its ability to provide a passage for wildlife to move between larger bushland reserves located mainly to the east and west. Habitat values within the Park should be maintained for opportunistic species, however the real value is that it allows wildlife to move freely to large bushland areas.

Achievements

An extensive program of weed removal particularly of Trad and Fishbone Fern combined with native plantings in degraded areas where natural regeneration is not possible has helped to re-establish a stable understorey and ground layer. Past work has been focussed in the core central bushland area and is now starting to move outwards from here.

Small pile burns have been completed to stimulate native plant regeneration with success in core bushland areas.

Weeds and palms along Punch Street have been poisoned.

Aquatic plants were added to the retention pond to encourage species to colonise this habitat not long after it was created.

Bushland Management Goals – Artarmon Park

This bushland reserve action plan for Artarmon Park has identified the following management aims from the Urban Bushland Plan of Management 2014 policy as priority objectives:

6.1c - Maintain genetic integrity of native plant communities;

6.2e - All management of vegetation will have regard to habitat values;

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 the bushland resilience to further weed infestation;

6.4c - To implement measures to control and manage existing and future weed infestations based on addressing the causes and sources of the infestation.

General Principles and Actions – All Bushland Reserves

a. Bush regeneration is a long term process that requires staged weed removal to ensure establishment of native plant communities. Work should proceed from good to degraded areas with techniques that encourage regeneration, including flame weeding, rather than spraying herbicide.

b. If possible, all weed refuse and natural debris to be composted or retained on-site.

c. When natural regeneration is deemed inadequate, supplementary plantings to mimic local plant communities and landscapes will be used with local provenance species.

d. Standing dead trees and forest litter (including logs and branches) to be retained for wildlife habitat unless deemed a risk to public safety.

e. Monitor, maintain and enhance vegetation connectivity for wildlife habitat within the reserve and reserve networks.

f. *Phytophthora cinnamomi* (a root rot pathogen) is listed as a key threatening process in NSW and has been identified as a threat to a number of species. Bushland workers are to use hygiene protocols to minimise risk.

g. Report and record all reserve encroachments. Monitor for tree vandalism and/or removal within the reserve and report to Council Compliance for appropriate action.

h. Continue to monitor wildlife habitat requirements and supplement where necessary.

i. Monitor feral animal activity and implement appropriate management actions where necessary.

j. Bushfire management will be achieved through implementation of a strategic hazard reduction program consistent with the Bushfire Risk Management Plan.

k. Species diversity will be encouraged through an ecological burn program.

l. Monitor and protect cultural and Aboriginal heritage sites within the reserve at all times. Bushland staff to notify Aboriginal Heritage Office prior to each burn to identify sites and implement protection measures and post-fire survey.

m. This reserve has a valuable role as an educational resource. Preserve natural features used for educational purposes and continue to inform the community of bushland issues through on-site educational activities and signage. Maintain appropriate signage.

n. Formal tracks to be regularly maintained and informal tracks to be closed to prevent damage to habitat and to impede access of feral animals, unless used for access by bushland management workers.

o. Establish photo points to monitor the progress of reserve management actions.

p. Reserve Action Plan progress to be reviewed annually and updated after five years.

Native Plant List for Artarmon Park

FERNS	<i>Pultenaea daphnoides</i>	<i>Morinda jasminoides</i>
ASPLENIACEAE	<i>Pultenaea retusa</i>	RUTACEAE
<i>Asplenium australasicum</i>	<i>Pultenaea stipularis</i>	<i>Corea reflexa</i>
<i>Asplenium flabellifolium</i>	MIMOSACEAE	<i>Zieria pilosa</i>
BLECHNACEAE	<i>Acacia decurrens</i>	SAPINDACEAE
<i>Blechnum cartilagineum</i>	<i>Acacia elata</i>	<i>Dodonaea triquetra</i>
<i>Blechnum nudum</i>	<i>Acacia falcata</i>	SCROPHULARIACEAE
<i>Doodia caudata</i>	<i>Acacia floribunda</i>	<i>Veronica plebeia</i>
DENNSTAEDTIACEAE	<i>Acacia irrorata</i>	SOLANACEAE
<i>Hypolepis muelleri</i>	<i>Acacia longifolia</i> var. <i>longifolia</i>	<i>Solanum aviculare</i>
GLEICHENIACEAE	<i>Acacia parramattensis</i>	VITACEAE
<i>Gleichenia dicarpa</i>	GERANIACEAE	<i>Cissus hypoglauca</i>
LINDSAEACEAE	<i>Geranium homeanum</i>	MONOCOTS
<i>Lindsaea linearis</i>	HALORAGACEAE	CYPERACEAE
POLYPODIACEAE	<i>Gonocarpus micranthus</i>	<i>Gahnia clarkii</i>
<i>Pyrrosia rupestris</i>	LAMIACEAE	<i>Lepidosperma gunnii</i>
PTERIDACEAE	<i>Prostanthera ovalifolia</i>	<i>Schoenus apogon</i>
<i>Pteris tremula</i>	LOBELIACEAE	<i>Schoenus melanostachys</i>
SCHIZAEACEAE	<i>Lobelia alata</i>	<i>Tetaria capillaris</i>
<i>Schizaea bifida</i>	<i>Lobelia gracilis</i>	JUNCACEAE
THELYPTERIDACEAE	<i>Pratia purpurascens</i>	<i>Juncus continuus</i>
<i>Christella dentata</i>	LOGANIACEAE	<i>Juncus planifolius</i>
DICOTS	<i>Logania albiflora</i>	<i>Juncus usitatus</i>
AMARANTHACEAE	MALVACEAE	LOMANDRACEAE
<i>Alternanthera denticulata</i>	<i>Brachychiton acerifolius</i>	<i>Lomandra brevis</i>
APIACEAE	MYRTACEAE	<i>Lomandra cylindrica</i>
<i>Xanthosia pilosa</i>	<i>Acmena smithii</i>	<i>Lomandra filiformis</i> ssp. <i>coriacea</i>
<i>Xanthosia tridentata</i>	<i>Angophora costata</i>	<i>Lomandra filiformis</i> ssp. <i>filiformis</i>
ARALIACEAE	<i>Angophora floribunda</i>	<i>Lomandra gracilis</i>
<i>Polyscias murrayi</i>	<i>Eucalyptus botryoides</i>	ORCHIDACEAE
ASCLEPIDACEAE	<i>Eucalyptus capitellata</i>	<i>Cryptostylis</i> sp.
<i>Marsdenia suaveolens</i>	<i>Eucalyptus microcorys</i>	<i>Pterostylis longifolia</i>
ASTERACEAE	<i>Eucalyptus paniculata</i> ssp. <i>paniculata</i>	<i>Pterostylis nutans</i>
<i>Ozothamnus diosmifolium</i>	<i>Eucalyptus pilularis</i>	PHORMIACEAE
<i>Senecio hispidula</i>	<i>Eucalyptus pilularis</i> x <i>globoidea</i>	<i>Dianella caerulea</i> var. <i>producta</i>
CASUARINACEAE	<i>Eucalyptus resinifera</i> ssp. <i>resinifera</i>	<i>Dianella revoluta</i> var. <i>revoluta</i>
<i>Allocasuarina torulosa</i>	<i>Eucalyptus saligna</i>	POACEAE
CLUSIACEAE	<i>Kunzea ambigua</i>	<i>Anisopogon avenaceus</i>
<i>Hypericum gramineum</i>	<i>Melaleuca armillaris</i>	<i>Austradanthonia tenuior</i>
CUNONIACEAE	<i>Melaleuca ericifolia</i>	<i>Dichelachne inaequiglumis</i>
<i>Callicoma serratifolia</i>	<i>Melaleuca lineariifolia</i>	<i>Imperata cylindrica</i>
<i>Ceratopetalum apetalum</i>	<i>Syncarpia glomulifera</i> ssp. <i>glomulifera</i>	<i>Oplismenus aemulus</i>
DILLENIACEAE	PITTOSPORACEAE	<i>Panicum simile</i>
<i>Hibbertia aspera</i>	<i>Pittosporum undulatum</i>	<i>Paspalidium distans</i>
EPACRIDACEAE	PROTEACEAE	<i>Poa affinis</i>
<i>Epacris purpurascens</i> var. <i>purpurascens</i>	<i>Banksia ericifolia</i>	UVULARIACEAE
<i>Trochocarpa laurina</i>	<i>Banksia integrifolia</i>	<i>Schelhammera undulata</i>
EUPHORBIACEAE	<i>Banksia spinulosa</i>	XANTHORRHOACEAE
<i>Poranthera microphylla</i>	<i>Hakea salicifolia</i>	<i>Xanthorrhoea arborea</i>
FABACEAE	<i>Hakea sericea</i>	<i>Xanthorrhoea media</i>
<i>Bossiaea heterophylla</i>	<i>Xylomelum pyriforme</i>	
<i>Indigofera australis</i>	RUBIACEAE	