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15 November 2024

The CEO Northern Beaches Council Po Box 882 MONA VALE NSW 1660

Attention: Robert Platt - Principal Development Infrastructure Officer

Dear Mr Platt,

Updated Offer to Enter into a Planning Agreement with Northern Beaches Council VPA2023/0001
Development of Sector 303 including built form and subdivision Lot 4, DP553816, 16 Macpherson Street, Warriewood

Reference is made to Development Application DA2023/0669 currently before the Land and Environment Court of NSW proposing the construction of 28 dwellings, infrastructure, roadworks, tree removal, landscaping, community title subdivision and the dedication of the inner 25 metre creek line corridor to Council.

This Voluntary Planning Agreement (VPA) offer proposes the delivery of works-in-kind involving the rehabilitation of the creek line corridor and the construction of the shared path connection within Brands Lane being works identified in the Warriewood Valley Contributions Plan and the dedication of the inner creek line corridor to Council.

We note that Narrabeen Creek has undergone substantial artificial re-alignment as a result of the development of the adjoining sites over the past several decades. DP 1072867, which forms a common creek boundary, notes the artificial re-alignment of Narrabeen Creek when defining the northern boundary of the subject allotment. Several registered plans upstream and downstream of the subject plan also come to the same conclusion when defining their respective creek boundary.

The location of the northern boundary, being the former centreline of Narrabeen Creek, has been digitised from DP 5464 and is substantially the same as that shown on DP 331865 and DP 553816. This being the common (and southern) boundary of Lot 6015, DP 1072867 - Public Reserve.

The proposed works-in-kind and land dedication to which this VPA offer relates are as follows:

- Item 23 (Pedestrian and Cycleway Schedule) Shared Path Brands Lane

The location and detail of the Shared Path is depicted in the Civil Works plans, prepared by Craig and Rhodes at **Attachment 1**.

 Item 2.62B (Multi-functional Creek Line Strategy) Rehabilitation works of Narrabeen Creek at Sector 303

The location and detail of the Narrabeen Creek rehabilitation works is depicted in the Narrabeen Creek Rehabilitation Works plans, Revision F prepared by Craig and Rhodes at **Attachment 2**, and Biodiversity Management Plan prepared by AEP at **Attachment 3**

Clause 5.2.2 - Creek line corridor land dedication at Sector 303.

The inner 25 metre creek line corridor proposed to be dedicated to Council is nominated as proposed Lot 30 on concept Subdivision Plan Lot dedication plan 048-22P L01[14] prepared by Craig & Rhodes **Attachment 4**.

Rationale and origin of the Offer

The Offer relates to works and required creek line corridor land dedication specifically identified in the Warriewood Valley Contributions Plan and which are proposed to be carried out as a component of the subject development application.

Demonstratable Public Benefit of the Offer

The Offer relates to works and required creek line corridor land dedication specifically identified in the Warriewood Valley Contributions Plan and will facilitate the completion of these identified works and creek line corridor land dedication as a component of the subject development application. The Offer facilitates the provision of identified infrastructure and works located on public land (upon dedication of the inner creek line corridor) within Warriewood Valley and accordingly provides Public Benefit.

Valuation of the Offer

2

- Item 23 (Pedestrian and Cycleway Schedule) Shared Path Brands Lane

Cost: \$73,012.00 + GST

 Item 2.62B (Multi-functional Creek Line Strategy) Rehabilitation works of Narrabeen Creek at Sector 303

Cost: \$158,899+ GST

Gross Construction Cost for works-in-kind: \$231,911.00

Clause 5.2.2 - Creek line corridor land dedication at Sector 303.

The accompanying documentation confirms that 1091m² of creek line corridor (proposed Lot 30) is to be dedicated to Council at a . land value of \$175,696- in accordance with Council's adopted development contribution plan and indexed to/2024 land value rates

The value of this land will directly offset the total monetary contribution payable for development on the land.

Proposed implementation of the Offer

- Item 23 (Pedestrian and Cycleway Schedule) Shared Path Brands Lane

These works will be carried out prior to issue of any Occupation Certificate relating to DA2023/0669

 Item 2.62B (Multi-functional Creek Line Strategy) Rehabilitation works of Narrabeen Creek at Sector 303

These works will be carried out prior to the dedication of the creek line corridor in accordance with DA2023/0669.

Clause 5.2.2 - Creek line corridor land dedication at Sector 303.

The land will be dedicated upon registration of the draft plan of subdivision with NSW Land Services.

Please do not hesitate to contact me to discuss any aspect of this correspondence.

Yours sincerely

BOSTON BLYTH FLEMING PTY LIMITED

Greg Boston B Urb & Reg Plan (UNE) MPIA Director

Attachment 1 Civil works plans prepared by Craig and Rhodes

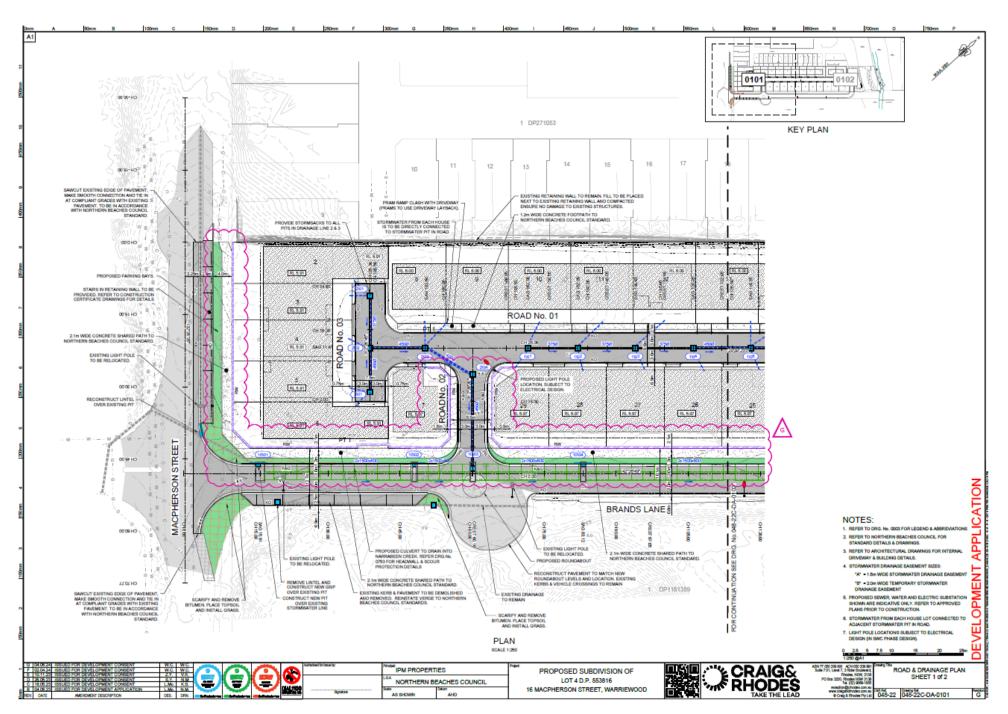
Attachment 2 Narrabeen Creek rehabilitation works plans, Revision F,

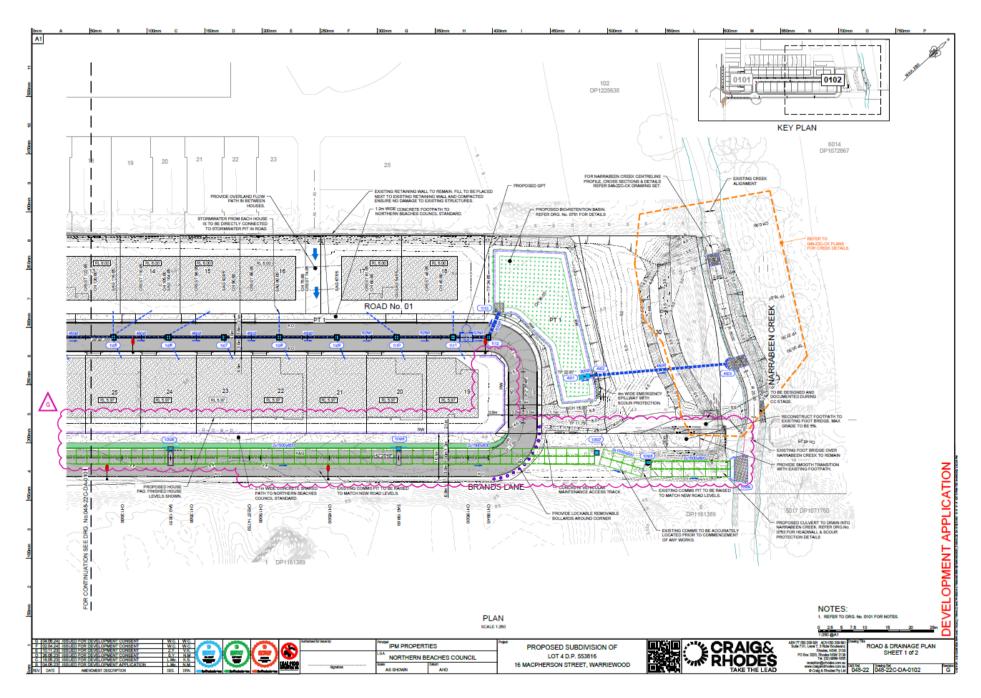
prepared by Craig and Rhodes

Attachment 3 Biodiversity Management Plan prepared by AEP

Attachment 4 Concept Subdivision Plan prepared by Craig & Rhodes

ATTACHMENT 1 - CIVIL WORKS PLANS PREPARED BY CRAIG AND RHODES





ATTACHMENT 2 - NARRABEEN CREEK REHABILITATION WORKS PLANS, REVISION F, PREPARED BY CRAIG AND RHODES

PROPOSED SUBDIVISION of LOT 4 D.P. 553816 16 MACPHERSON STREET, WARRIEWOOD

NARRABEEN CREEK REHABILITATION WORKS DEVELOPMENT APPLICATION



DRAWING No.	DRAWING TITLE	REV.
048-22C-CK-0001	COVER SHEET, LOCALITY PLAN & INDEX	
049-220-016-0003	ATHERAL LIGHTO	
048-22C-CK-0101	NARRABEEN CREEK PLAN, LONGITUDINAL SECTION & TYPICAL CROSS SECTION	
048-22C-CK-0741	NARRABEEN CREEK CROSS SECTIONS	
Mental-Charles	DIAMATERIALE .	
048-22C-CK-0901	SEDIMENT & EROSION CONTROL PLAN	F
048-22C-CK-0902	SEDIMENT & EROSION CONTROL DETAILS	P.

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- INDIVIDUAL ROCKS SHALL BE FREE FROM CRACKS, CLEAVAGE PLANES, SEAMS AND DEFECTS WHICH WOULD RESULT IN THE BREAKDOWN OF ROCK IN SERVICE.
- ROCK UNITS SHALL BE EITHER SEDIMENTARY ROCK ONLY OR IGNEOUS ROCK ONLY AND, AS A MINIMUM, SHALL SATISFY THE FOLLOWING CRITERIA.
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- AT LEAST FOURTHEIN (14) DAYS PRIOR TO THE SUPPLY OF ANY ROCK, THE CONTRACTOR SHALL PROVIDE DOCUMENTATION TO DEMONSTRATE THAT THE ROCK TO BE SUPPLIED COMPLIES WITH THE REQUIREMENTS OF THIS SPECIFICATION.

EARTH WORKS

- THE CONTRACTOR SHALL PROVIDE PROPER FENCING, GLARDING & LIGHTING AND CREENVATION OF ALL EXPERIMONES, TEMPORARY ROADWAYS, FOOTWAYS, GUARDES & PENCIS AS MAY BE RENDERED NECESSIANY FIOR THE ACCOMMODATION AND PROTECTION OF PEDESTRAN, VEHICLES, ANNABLE & THE PUBLIC

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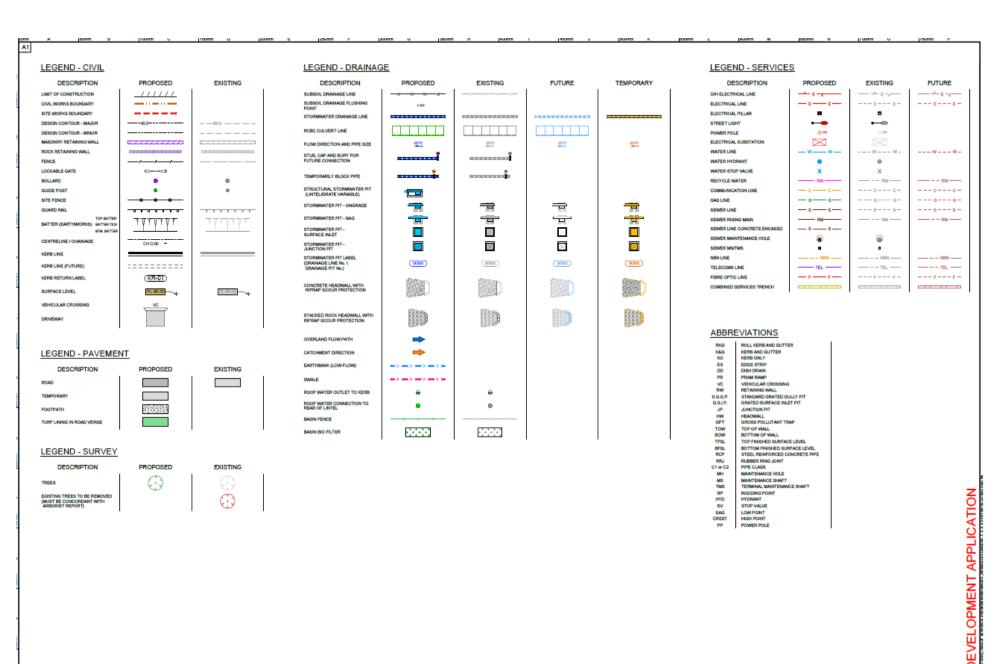
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IPM PROPERTIES NORTHERN BEACHES COUNCIL

PROPOSED SUBDIVISION OF LOT 4 D.P. 553816 16 MACPHERSON STREET, WARRIEWOOD



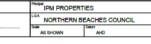
LOCALITY PLAN & INDEX 048-22C-CK-0001

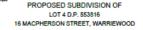




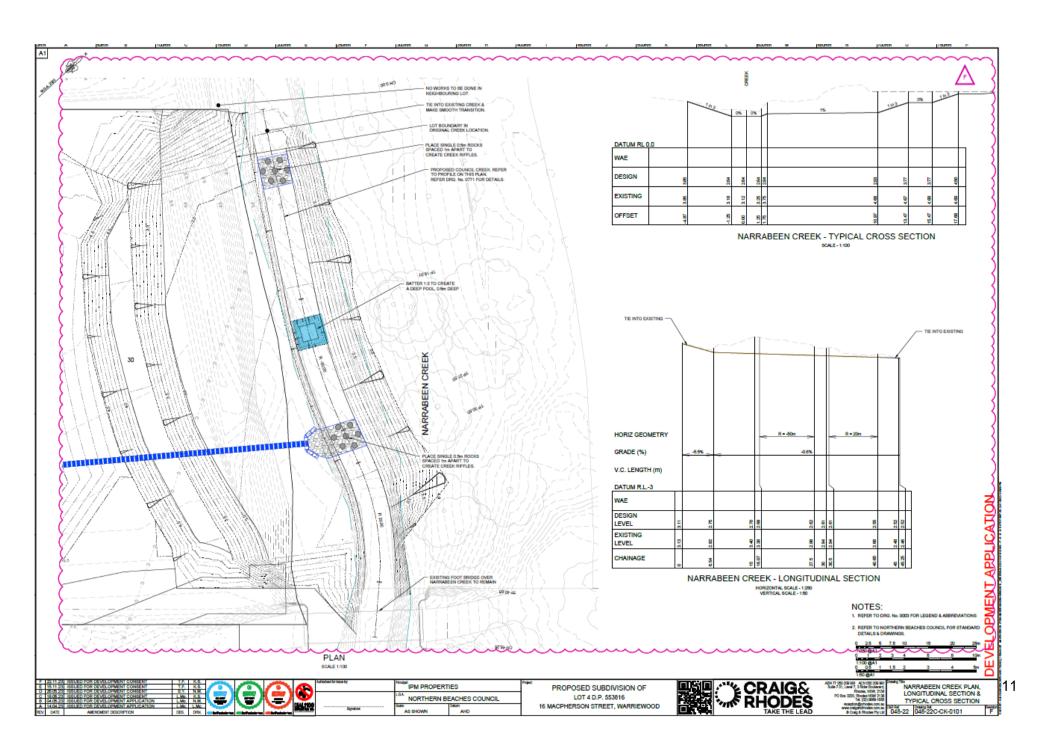


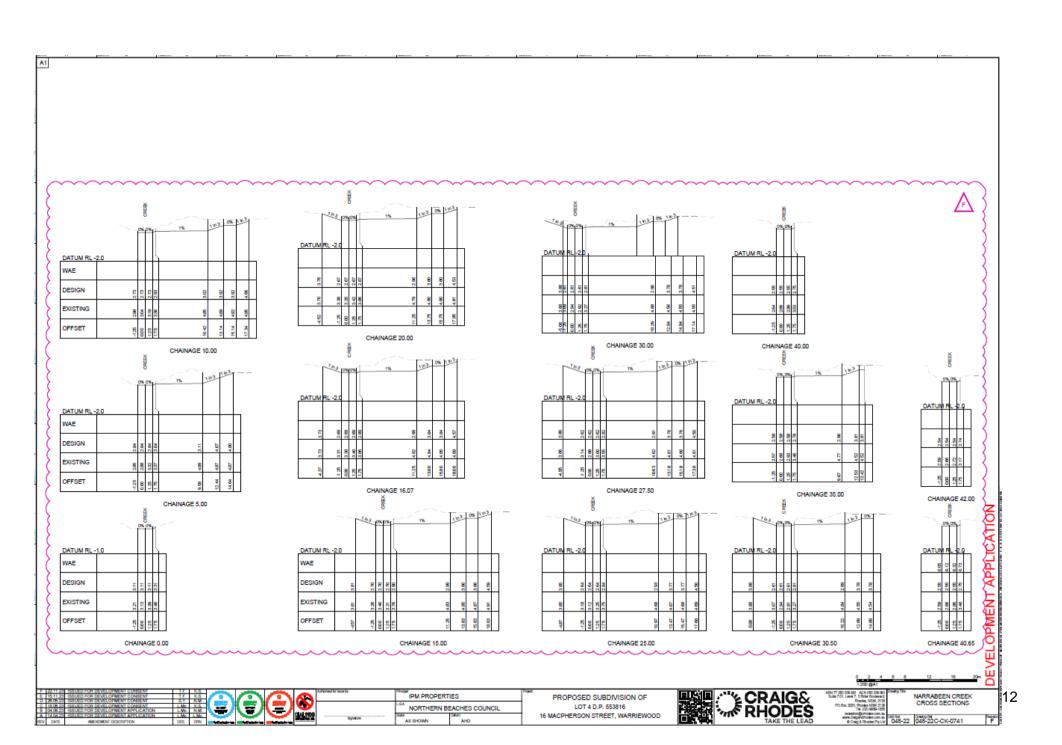




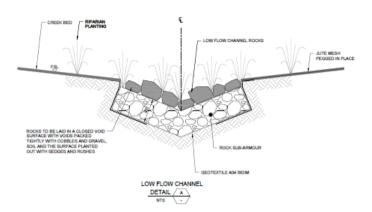






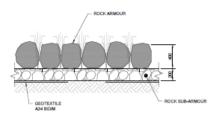


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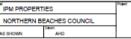


- ROCKS TO BE LAID IN A CLOSED VOID SURFACE WITH VOIDS PACKED TIGHTLY WITH COBBLES AND GRAVEL, SOIL AND THE SURFACE PLANTED OUT WITH SEDGES AND RUSHES ROCK BED ARMOUR -REFER TO DETAIL No.3 GEOTEXTILE A34 BIDIM STORMWATER OUTLET

NOTE
ROCK SIZES AND DEPTH ARE SHOWN AS
INDICATIVE ONLY, TO BE CONFIRMED IN
DESIGNED DURING DETAIL DESIGN.

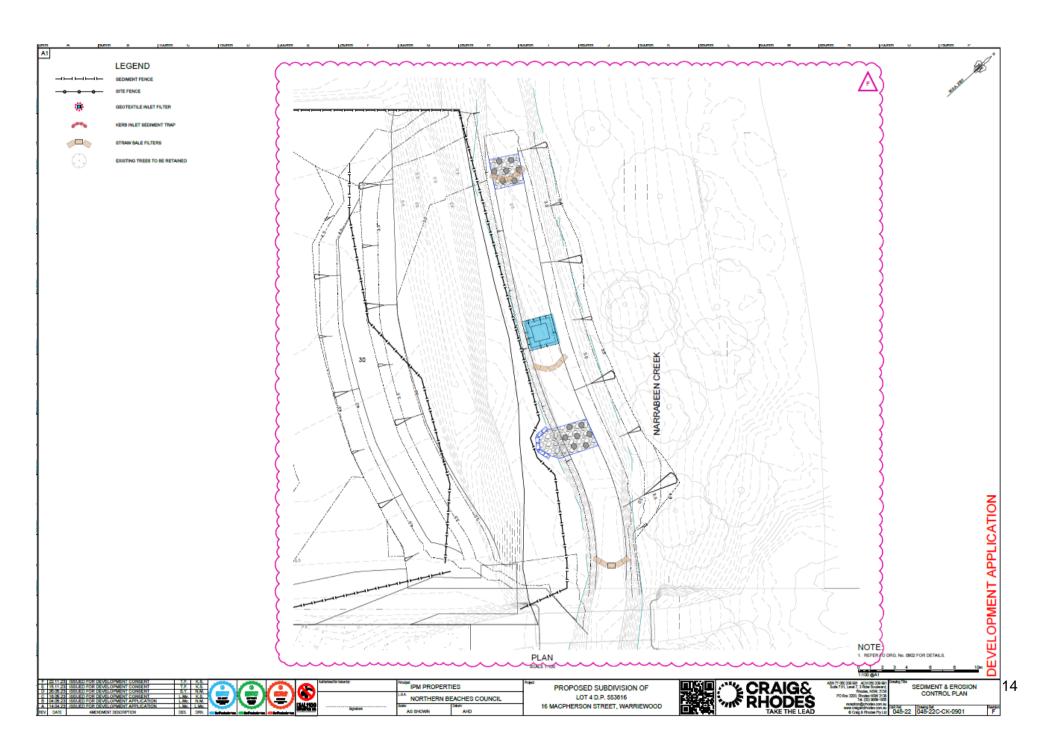


STANDARD ARMOUR DETAIL C









ATTACHMENT 3 - BIODIVERSITY MANAGEMENT PLAN PREPARED BY AEP



Biodiversity Management Plan – 16 Macpherson St, Warriewood NSW

Prepared For: Warrimac Pty Ltd

Prepared By: Anderson Environment and Planning

Date: October 2023
AEP Reference: 2564.01

Revision: 04







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2564.01 Warriewood BMP i October 2023



1.0 Introduction

At the request of Warrimac Pty Ltd (the client), Anderson Environment & Planning (AEP) have undertaken the necessary investigations to inform the production of a Biodiversity Management Plan (BMP) to schedule reconstruction measures associated with a proposed residential subdivision and dwelling construction at 16 Macpherson Street, Warriewood, NSW (Subject Site).

The BMP schedules reconstruction works for the creekline corridor located within the proposed development. The varying stages of regeneration are applicable to ensure minimal construction impacts on the regeneration during construction.

1.1 Biodiversity Management Plan Objectives

The purpose of this plan is to;

- Reinstate a standard creek profile creating both ecological and hydraulic function within Narrabeen Creek.
- To provide a suitable location for the translocation of Syzygium paniculatum (Magenta Lilly Pilly) trees located within the existing riparian corridor.
- · Regeneration vegetation in the north east of the Subject Site.

The BMP requires action to regenerate riparian lands while creating safe space within the proposed subdivision, incorporating best practice management of vegetation and fauna within the BMP Lands.

The overall BMP objectives are to provide:

- · Education of the Plant Community Type (PCT) within the Subject Site;
- · Reconstruction using council's standard creek design;
- · Improving water quality and aquatic habitat;
- To assess and adjust weeding and planting regimes across the BMP:
- Areas of habitat for native flora and fauna, including locally occurring threatened species; and
- A long-term environmental conservation area, in a state of Natural Regeneration requiring nominal ongoing maintenance.

1.1.1 Proposal

The proposed development involves a residential subdivision covering the entirety of the Lot. The land clearing required for the proposed development involves the removal of 0.21ha native vegetation from the Subject Site.

The proposal contains 28 residential lots and 2 lots containing an internal road, the reconstruction of Narrabeen Creek and the riparian corridor.

Figure 1 and 2 shows the site location and ground-truthed vegetation respectively and Appendix A shows the proposed development.

1.1.2 Supporting Reports

The BMP must be read and implemented in conjunction with the following reports:

 AEP (2023) Ecological Assessment Report for a Proposed Residential Subdivision at 16 Macpherson Street, Warriewood, NSW.;

1.2 BMP Lands

The BMP lands comprise 0.14ha and contain;

- The existing severely modified and highly degraded Narrabeen Creek; and
- A portion of the Subject Site that is proposed for riparian corridor reconstruction works.

Within both sections there are scattered patches of highly degraded PCT 1795, exotic pastures and cleared land.

The section of Narrabeen Creek proposed to be managed under the BMP is highly disturbed and will require plantings and erosion and sediment controls to ensure the banks of the creek remain stable and natural flow and ecological function are maintained. The creek present within the BMP Lands has limited watercourse features as identified in Department of Planning, Industry and Environment (2020), Natural Resources Access Regulator Waterfront Land Tool, such as pools, riffles, meanders and aquatic vegetation.

The BMP will utilise the principles within Northern Beaches Creek profiles, to reinstate natural features within the proposed management zones while regenerating the aquatic and riparian ecosystems. It is proposed that the standard creek profile will be regenerated with aquatic species within the creek line to toe of bank and PCTs 1795 for remaining BMP lands.

The main aim of the BMP lands is to educate the community and promote community awareness and knowledge of both flora and fauna in the area. This has been shown to develop community ownership of environmental zones and protection. Community ownership and knowledge reduces vandalism and garden and other waste dumping as the community feels a sense of ownership.

The BMP lands are proposed to be managed under a 5-year Biodiversity Management Plan, including standard creek design, plantings, translocation of threatened species, weed management, pest and disease management, installation of habitat, educational signs, footpaths, viewing area and frog ponds.

To ensure protection of the downstream riparian area, measures such as erosion and sedimentation controls are to be installed prior to construction commencing, and regularly inspected and maintained (weekly or after rain events) during construction works.

The Water Sensitive Urban Design (WSUD) measures are incorporated within the detailed design of each stage to ensure Narrabeen Lagoon Catchment receptor is maintained and enhanced for both quality and quantity.

In accordance with Section 201 of the Fisheries Management Act 1994 (FM ACT), a permit is required to undertake the proposed works within the second order stream to reconfigure (dredge and reclaim) the creek profile and divert (block fish passage) during construction works.

There are no Asset Protection Zones (APZs) located within the BMP lands.

1.3 Existing Site Conditions

The Subject Site was inspected and floristic surveys were undertaken by AEP in June 2022. These inspections included general site reconnaissance and traversal to verify previously mapped vegetation communities and determine vegetation / flora / fauna assessment, location of modified channel, erosion and deposition of the BMP lands as well as the broader site.

Figure 2 shows ground-truthed vegetation boundaries. **Figure 3** outlines the proposed management zones and areas impacted by the development.

2.0 Regeneration Approach

The BMP schedules differing ecological approaches to the regeneration of the BMP Lands by implementing the principles of the Society for Ecological Restoration Australiasia National standards for the practice of ecological restoration in Australia (SERA 2021, ed. 2.2). This approach utilises three integrated restoration techniques to achieve the end goal of Natural Regeneration. Approaches have been assigned to BMP Land areas based on their history of disturbance:

- Reconstruction Approach this approach is where a site is highly degraded and has limited to no ability to regenerate naturally.
- Facilitated Regeneration Approach this approach is when a site
 is in moderate condition, and will naturally regenerate with minimal
 plantings and weed management.
- Natural Regeneration this approach is where damage is relatively low, and pre-existing biota should be able to recover after cessation of degrading practices. It requires limited to no intervention, with weeding being the only task undertaken to encourage continual natural regeneration.

The aim for the entirety of the BMP lands is to achieve Natural Regeneration within five (5) years.

This is based on general condition at the point of assessment, where the Ecologist determines the most appropriate level of regeneration based on the Biodiversity Assessment and random meander of the Subject Site.

The National Guidelines also require that at commencement of approved regeneration works the first step is to gather baseline data. It is undertaken at the commencement of the BMP to ensure the most appropriate measure are used to ensure regeneration can occur. Natural events such as drought high rainfall, fire, floods, etc can all have significant impact on the condition of vegetation within a site. Hence the guidelines require regeneration areas be broken into the three categories and detailed baseline data be collected at commencement.

2564.01 Warriewood BMP 2 October 2023



3.0 Council Standard Creek Design and Vegetated Riparian Zone

Narrabeen Creek within the BMP lands has been ground-truthed to be a Stream Order two. The creek is highly degraded, eroded and modified by past and present uses. The Department of Planning and Environment (Water) (DPE - Water) (formally known as Natural Resources Access Regulator) requires a 20m Vegetated Riparian Zone (VRZ) on a Stream Order 2.

To provide the VRZ on the stream in its current state, it is highly unlikely to provide suitable aquatic habitat or water quality to the Narrabeen Lagoon Catchment. The creek does not show many of the key features of a healthy river system:

- · Defined bed and bank;
- Meanders;
- Pools:
- · Riffles; and
- Aguatic vegetation.

As such it is proposed that Narrabeen Creek within the RE1 zone land is reinstated with Northern Beaches Council standard creek profile and vegetated riparian zone that will provide suitable aquatic habitat and improve water qualify to the Narrabeen Lagoon Catchment.

Plate 1 shows a cross section of watercourse to assist with the location of each zone.

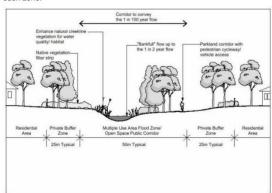


Plate 1 - Cross Section of Creekline Corridor (Lawson & Treloar, 2001)

A review of the current literature showed that reinstated a standard creek profile within the Narrabeen Creek would ensure the above key features are present within the creek, and as a result improved water quality and

habitat for both terrestrial and aquatic organisms will be provided. **Plates 2 - 4** show photos of standard creek design examples.

This BMP provides the concept plan for the channel design, detailed engineering plans will be prepared prior to Construction Certificate.



Plate 2 - Low Flow Channel and Pool (Brisbane City Council, 2003)



Plate 3 - Low Flow Channel (Australian Wetland Consulting, 2018)



Plate 4 – Bundamba Creek Restoration works (Australian Wetland Consulting, 2018)

4.0 Management Zones

The BMP lands will be managed in two (2) Management Zones (MZs) to clearly identify of objectives and targets, **Figure 3** shows the MZs.

4.1.1 Zone 1: Reconstruction - Aquatic Zone

This zone is located in the low flow channel to top of toe, consisting of a width of 1m - 2m; it will include the reinstating of aquatic vegetation and habitat such as snags.

The Reconstruction Approach is being utilised in MZ1. Planting of native species will assist with meeting the Targets outlines in **Section 5**.

Weeding as defined in **Table 2**, will effectively control priority species and areas through appropriate methods to eliminate highly competitive weeds from an area.

All works should be undertaken to ensure bed and bank stability, provisions of aquatic habitat for both flora and fauna.

As stated, the Reconstruction Approach requires active interventions, the tasks of which will be determined by the Bush Regeneration Contractor (BRC) and may involve the following tasks:

- Planting;
- Installation of snags;
- Weeding;
- Watering:
- Mulching (if required); and
- · Replacement of dead plants (1:1).

The BMP aims to move into Natural Regeneration Approach by the end of Year 5.

4.1.2 Zone 2: Reconstruction – PCT 1795 Coastal flats Swamp Mahogany Forest

MZ2 is located from the top of toe to the end of the riparian zone. MZ2 will be planted out with PCT 1795 - Coastal flats Swamp Mahogany Forest.

The Reconstruction Approach is being utilised in this section and the planting of native species form PCT 1795 will assist with meeting the Targets outlines in **Section 5**.

Weeding as defined in **Table 2** (effectively control priority species and areas through appropriate methods to eliminate highly competitive weeds from an area).

All works should be undertaken to ensure bed and bank stability, provisions of terrestrial habitat for both flora and fauna.

Signage is to be installed along the high bank providing information on the community and fauna species likely to use the banks and aquatic vegetation.

2564.01 Warriewood BMP 3 October 2023



As stated, the Reconstruction Approach requires active interventions, the tasks of which will be determined by the Bush Regeneration Contractor (BRC) and may involve the following tasks:

- Planting;
- · Installation of habitat;
- Weeding;
- · Watering;
- · Mulching (if required); and
- Replacement of dead plants (1:1).

The BMP aims to move into Natural Regeneration Approach by the end of Year 5.

5.0 Regeneration Targets

The Reconstruction Approach will be used across the entire BMP Lands and the following targets have been designed to be measurable, providing both quantitative and qualitative data on species abundance and cover for the vegetation communities within the BMP Lands.

Weeds have a significant impact on structural integrity of vegetation communities. Flora surveys identified 27 exotic species, with the following list being the most prevalent within the vegetation communities on site;

Lantana (*Lantana camara*), Small-leaved privet (*Ligustrum sinense*), Black Cobbler's Peg (*Bidens pilosa*) and Asparagus Fern (*Asparagus aethiopithicus*).

Exotic grasses comprise *Paspalum dilatatum* and *Ehrharta erecta* (Panic Veldtgrass)

Some of these species are identified as priority weeds for Greater Sydney. Predominantly exotic grasses and other herbaceous weeds will be the focus of weed management activities.

To achieve a Natural Regeneration throughout the entire BMP lands within five (5) years targets have been set within **Table 1**. **Tables 3** to **7** also summaries the works schedule required to achieve the targets.

Table 1 - Summary of Regeneration Targets for Stage 1

Year	Abundance of Natives (%)	Cover of Native (%)	Cover of Biosecurity Weeds (%)	Cover of Other Priority Weeds (%)
1	30	30	<70	<70
2	40	45	<45	<40
3	55	55	<30	<25
4	60	65	<20	<15
5	70	80	<10	<10

6.0 Translocation of Syzygium paniculatum

Syzygium paniculatum is an Endangered species due to numerous threats including low genetic diversity, small and isolated populations, habitat clearing, competition with weeds. Translocation of this species will minimise impacts to this species on site and will assist in maintain the local population on site.

6.1 Aims Treatment / Monitoring Plan

6.1.1 Translocation Plan

The individual species of *Syzygium paniculatum*, identified within the Subject Site are proposed to be translocated.

Translocation is proposed to follow the below program:

- · Trees will be tagged and health assessment undertaken;
- Civil contractor teams with supervision from the Project Arborists will dig out root balls of viable plants and they will be temporarily stored on site during reconstruction period before being translocated to MZ 2;
- The trees will be watered, mulched and left for three-month establishment period.

6.1.2 Monitoring Program

Annual reports will be provided to Council reporting on the progress of the treatment plan address:

- · Health of trees;
- · Percentage of new foliage; and
- Growth.

7.0 Regeneration Management

7.1 Baseline Data

Indicative monitoring points have been identified within the BMP Lands (refer **Figure 4**). The final location of the monitoring points is to be determined at commencing of the BMP.

Baseline data is to be collected at monitoring points at commencement. This data is collected at commencement to ensure the data is reflective of the conditions at commencement. Vegetation health, structure and composition can change over time, environmental impacts such as fire, drought or flood can have a significant impact on the communities and hence baseline data must be collected at commencement to ensure proposed methods and targets are achievable.

Baseline data consists of:

- · Species diversity (both native and exotic);
- · Species Abundance (both native and exotic);

- · Overall health of the BMP Lands:
- · Photos in north, east, south and west aspects;
- · Record incidental fauna; and
- Required changes in methodology for regeneration.

The Monitoring Points established for the baseline surveys will then be monitored on a biannual basis, as per 8.1 Monitoring.

7.2 Site Preparation

Prior to the commencement of regeneration, the BMP Lands must be prepared. The following works have been recommended to assist in site preparation:

- Establishment of pathogens and diseases controls. Diseases which could affect the site include Myrtle rust (Puccinia psidii), affecting Myrtaceous plants, including Melaleuca species, and Amphibian Chytrid fungus disease, Chytridiomycosis, caused by Chytrid fungus (Batrachochytrium dendrobatidis). Appropriate hygiene controls are to be employed to minimise the chances of any such introduction occurring. This may include a hygiene station equipped with sterilizing agents and cleaning equipment to clean boots, tools and machinery. Response plans are needed to be designed and implemented to mitigate impacts in the event of disease or pathogen outbreaks;
- All extant rubbish/waste is to be removed from BMP lands including farm fencing and structures. The need to remove such material should be assessed on a case-by-case basis as in some instances the material is inert, such as concrete, rocks and timber posts, etc. Such material may inadvertently provide geomorphic stability;
- · Clearly mark native vegetation for retention and approved removal;
- Install temporary fence around the BMP Lands, and clearly mark as a "No Go Area" prior to commencement of civil works:
- Fencing should have clearly visible signage erected at key entry points to BMP;
- Implement erosion and sediment control measures in accordance with specifications set out in the latest edition of the Landcom publication "Soils and Constructions – Volume 1" (The Blue Book);
- · Construction of the council's standard creek profile;
- · Vegetation clearing;
- · Establish monitoring and photo points;
- · Collection of baseline data;
- · Primary weed removal;
- Installation of ground habitat (logs and rocks);
- Planting of Vegetation (see Appendix B for a detailed species list). All
 plant stock must be provenance specific seed/ material collected from
 locally endemic species, grown by suitably experienced and qualified
 nurseries, and hardened-off before planting. This will ensure the

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structure and composition of these communities will meet the targets set; and

· Mulching and watering.

7.3 Vegetation Clearing

For the clearing phase, retained vegetation will be delineated by safety bunting flags, fencing and signage indicating environmental protection zone, which will still allow fauna to egress the development area as needed. Following the completion of clearing works, permanent delineation features such as logs should be installed to protect the retained vegetation during operational phase of the development;

- Vegetation clearing should be timed to avoid cold weather periods where overnight temperatures are forecast to be less than 12°C. Cold weather is likely to make it difficult for resident hollow dependent fauna to successfully relocate. This is particularly relevant for low bodyweight species;
- A staged approach to clearing is to be undertaken to provide fauna the opportunity to disperse outside the area of impact. Staging to include Phase 1 Clearing: Underscrubbing, Phase 2 Clearing: Removal of non-habitat trees, and Phase 3 Clearing: Removal of habitat and connecting trees;
- All clearing works (phase 1-3) to be undertaken under the supervision of the Project Ecologist;
- Clearing should occur in a direction from previously disturbed lands towards retained lands;
- Implement clearing protocols, including pre-clearance surveys to identify habitat and vegetation to be retained;
- All clearing works to be attended by a suitable equipped and experienced ecologist to deal appropriately with any displaced fauna species;
- All hollow bearing features will be sectionally lowered by tree climbers (where safe to do so):
- Any fauna rescued during vegetation clearing is to be assessed for injuries, and subsequently released to a suitable nearby location; this may require holding fauna until dusk for release in accordance with relevant animal ethics licencing and standards;
- If any fauna is injured during vegetation clearing, they are to be taken promptly to a nearby veterinarian or suitable wildlife carer contact;
- In addition, prior to clearing of any vegetation, an ecologist is to inspect
 the area for any signs of resident fauna requiring attention, and in
 particular nesting birds. Where such is identified, appropriate
 strategies are to be developed and instigated to minimise impacts.
- Pre-clearance surveys to include diurnal surveys, stagwatching and nocturnal surveys;
- Civil Construction staff to be inducted into pre-clearing and clearing protocols, and to identify environmental features for protection;

- Any suitable hollows recovered during clearing works should be reconditioned into suitable hollows and installed in retained lands in addition to the manufactured nest boxes; and
- All cleared vegetation is to be mulched on site and spread to help stabilise any exposed soil and minimise offsite movement of biomass.
 Fallen timber and hollow logs identified to be retained to be relocated into the retained lands:

7.4 Weed Management

Weed Control works within each Management Zone are to be undertaken by a qualified bushland regeneration team using industry standards (summary provided in **Table 2**).

Any reproductive material of weeds, including weeds that can spread vegetatively or seeds, must be taken off site to be disposed of at an appropriate local waste collection service. No weed material with the potential of spreading may be stockpiled within the Subject Site, or the BMP Lands.

The Biosecurity Act 2015 outlines several 'duties'; the general biosecurity duty, and additional duties under mandatory measures, regional measures, prohibited matter or biosecurity zone. Specific actions for these measures may be required. Weed control is required to occur in the following sequence:

- Primary Weeding this is where weeds are removed from Management Zones.
- Consolidation over the next few months, the weed control zones will require monthly visits to remove weeds that are regenerating and/or have grown in response to the disturbance and are competing with planted and regenerating native plants. These visits are essential, otherwise the weeds will recolonise, dominate and inhibit the regeneration of native species.
- Maintenance Weeding After the sixth-month and will continue
 on a monthly basis, due to woody weeds, and other annual weeds
 being problematic within the locality.

This interval will be evaluated based onsite condition during each monitoring period. Weed control works across the site are to be undertaken over the maintenance period of five (5) years, however given the adaptive management approach, this time-frame is flexible, and may need to be extended based on changing site conditions and results indicating management zones have reached targets set out in this BMP.

7.5 Fauna Management

Macropods and possums are known as occurring in the local area. Therefore, protection guards should be placed around plantings so that revegetation efforts within BMP lands are not compromised by grazing. If monitoring within management zones indicates pest species pose notable impediments to achieving the aims of the BMP (i.e., through excessive browsing, etc.), then management actions will be reviewed to address these issues

Incidental fauna records are to be undertaken during monitoring surveys and reported.

8.0 Project Management

Establishment of monitoring points and compliance checking of other aspects within this BMP will be the responsibility of the Project Ecologist working with the Civil Contractor.

The client will be responsible for the engagement of a suitably qualified Bush Regeneration Contractor to undertake weed control and planting works outlined in this BMP.

Bush Regenerator(s) or company(s) shall have the following qualifications;

- Australian Association of Bush Regenerators (AABR) Accreditation.
 The Bush Regenerators shall hold a current AQF3 qualification.
- Site Supervisor must have demonstrated minimum of 2 years' experience in the bush regeneration or related field and must have experience at a supervisory level in providing training, supervision and technical advice to staff. clients, volunteers and members of the public.
- The Site Supervisor must hold a current AQF 3 qualification or higher and must have completed the Bush Regeneration Level IV Certificate or have a diploma or degree in a field related to natural resource management.

The Project Ecologist will be responsible for the establishment of monitoring points within the BMP lands along with collection of baseline data that will be monitored against this over the three-year period of this BMP with the overall targets. The Project Ecologist will be responsible for monitoring and reporting on weed management, and Regeneration Approach success.

8.1 Monitoring

Monitoring will occur at commencement and biannual basis at the proposed monitoring points (refer Figure 3).

8.1.1 Baseline Data

Baseline data is collected and report prepared for submission to Council at commencement of the BMP.

8.1.2 Biannual Monitoring

This is to occur every 6months from commencements up to three years or reaching of targets (which every is the latter);

- Native species, abundance and coverage;
- · Weed species and coverage;
- Photo records at monitoring points at each aspect (North, east, south, west);
- · General health of each Management Zone:
- · Incidental fauna use of site; and
- Evaluation of methodology and management effectiveness.

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8.2 Reporting

A baseline report is prepared at commencement of the BMP and submitted to Council.

A report is to be prepared annually and delivered to the consent authority for the life of the BMP with a final report prepared at the end of the BMP outlining how the conditions of the BMP have been met.

Biannual monitoring will inform the evaluation of management effectiveness, until the Regeneration Benchmark Targets are met.

As part of adaptive management, the reports will include evaluations and recommendations relating to all areas covered in the monitoring schedule and also address any other problems or deficiencies found during monitoring. If required the report should also outline any changes that are required to planned works to ensure better ecological outcomes.

Regeneration of the BMP Lands will be undertaken over a period of five (5) years or until the Year five (5) overall targets are reached.

8.3 Future Management of BMP Lands

Regeneration of the BMP Lands will be undertaken over a period of five (5) years or until the Year five (5) overall targets are reached. As the BMP lands will then be in a state of Natural Regeneration, management of the site after targets have been achieved will be undertaken in accordance with the *Biosecurity Act 2015 & Biosecurity Regulations 2017*.

Table 2 - Weed Control Activities

Activity	Minimum Requirement
Pre-works	Undertake baseline surveys to identify priority weeds present on site to be the focus of weed management activities. Priority weeds based on listings under the <i>Biosecurity Act 2015</i> , and notably any problematic weeds on site that have been identified.
Primary Works	Effectively control priority species and areas through appropriate methods to eliminate highly competitive weeds from an area. Include high disturbance activities that could negatively impact later regeneration such as high-volume herbicide application, and physical removal of large trees which would pose safety hazards to the public or others if left to perish in-situ.
Secondary Works	Treat any regrowth from primary weed control and expand on control measures by targeting Priority species and expanding the primary control boundaries where desirable. Thin retained weeds to increase light penetration where appropriate. Generally, expand on and solidify primary work.
Maintenance Works	Maintain exclusion of weeds controlled during Primary and Secondary works. Prevent reinfestation of weeds progressively, and others as time permits.
Woody Trees & Shrubs	Where appropriate, remove trees via mechanical means (i.e., chainsaw or handsaw) and apply chemical to the cut stump. Material may be retained on-Site or disposed of appropriately off-Site. Retained material should be situated to provide additional ground habitat and slope stability but should not be left in such a way that would hamper natural regeneration or existing native plants. Care should be taken with species which have the capacity to regrow vegetatively such as Erythrina x sykesii (Coral Tree). Alternatively, trees and shrubs may be treated via frill or drill application of herbicide and left to perish in-situ as habitat.
Woody Thickets	Treat via cut or scrape and paint or high-concentration low-volume foliar herbicide control (i.e., splatter application). Material may be left <i>in-situ</i> (particularly after spraying) or broken up and rafted off the ground to perish (taking care to remove from expected high flow areas of the creek). Do not manually remove root stock in a manner that will encourage soil instability or erosion. Once dead, standing material may be broken down and left on the ground as mulch. Mechanical removal (i.e., brush cutter equipped with mulching blade or similar) may be used where practical and regrowth treated with foliar application of herbicide.
Vines and Creepers	Skirt from trees and vegetation to prevent smothering and leave material to perish in-situ. Cut or scrape and paint stems or runners. Foliar herbicide control where appropriate. Do not unduly expose soil via manual removal of plants where they may be providing soil stabilisation. Isolated manual removal as appropriate.
Ground Cover	Retain exotic species where they are providing ground stabilisation or habitat until such time as they hinder native species establishment or are no longer necessary. Relevant examples include retaining <i>Tradescantia fluminensis</i> (Trad) along drainage lines where removal would expose bare soil to erosion. Weed control is to focus on the patch removal of such weeds from around native regeneration or planting, with progressive removal of larger patches over time.

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Prior to commencement of the BMP the following must have been undertaken:

- Construction Plans prepared and approved for the standard creek design;
- · Construction of the standard creek profile;

It should be noted that the Treatment and Monitoring Plan Schedule of works will be provided to Council with the Baseline Data Report.

Table 3 - Year 1 Targets and Schedule of Works

		1st	2 nd	3rd	4 th		Targe	ts to be reach	ed at end of 4th	Quarter
Timeframe	Works to be Undertaken		Quarter of Year	Quarter of Year	Quarter of Year	Roles and Responsibilities	Abundance of Natives (%)	Cover of Native (%)	Cover of Biosecurity Weeds (%)	Cover of Other Priority Weeds (%)
	Installation of No-Go Zones, fencing and signs					Civil Contractor				
	Installation of Monitoring Points					Project Ecologist				
	Collection of baseline data					Project Ecologist				
	Installation of sediment and erosion controls					Civil Contractor				
	Translocation of Syzygium paniculatum					Bush Regeneration Contractor				
	Installation of Ground habitat					Civil Contractor / Project Ecologist	30 30			
	Preparation of Baseline Data Report					Project Ecologist				
Year 1	Primary Weeding (Effectively control priority species and areas through appropriate methods to eliminate highly competitive weeds from an area. Include high disturbance activities that could negatively impact later regeneration such as high-volume herbicide application, and physical removal of large trees which would pose safety hazards to the public or others if left to perish institu) of all zones – focus is on Biosecurity Weeds (refer Appendix C for Department of Primary Industries Priority Weeds for Greater Sydney)					Bush Regeneration Contractor		30	<70	<70
	Mass planting of trees and shrubs within reconstruction zones (refer to Appendix B for suitable plants in each PCT)					Bush Regeneration Contractor				
	Installation of tree guards for pest control if required					Bush Regeneration Contractor				
	Secondary Weeding- focus is on Biosecurity Weeds (refer Appendix C for Department of Primary Industries Priority Weeds for the Central Coast)					Bush Regeneration Contractor				
	Replacement dead / dying plantings					Bush Regeneration Contractor				
	Biannual monitoring					Project Ecologist				
	Annual Reporting to NBC					Project Ecologist				

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Table 4 - Year 2 Targets and Schedule of Works

		det	and	3rd	4th		Targets to be reached at end of 4th Quarter				
Timeframe	Works to be Undertaken	Quarter of Year	Quarter of Year	Quarter Quarter Roles and Responsibilitie		Roles and Responsibilities	Abundance of Natives (%)	Cover of Native (%)	Cover of Biosecurity Weeds (%)	Cover of Other Priority Weeds (%)	
	Annual inspection of No-Go Zones, fencing and signs					Civil Contractor / Bush Regeneration Contractor					
	Annual inspection of sediment and erosion controls (or after rainfall events)					Civil Contractor / Bush Regeneration Contractor			<45		
	Annual inspection of ground habitat					Project Ecologist					
Year 2	Replacing dead / dying plantings		2			Bush Regeneration Contractor	40	45		<40	
	Weed management as required to achieve annual targets					Bush Regeneration Contractor					
	Biannual monitoring of both terrestrial and aquatic environments including water quality data					Project Ecologist					
	Biannual inspection or Installation of tree guards for pest control if required					Project Ecologist					
	Annual Reporting to NBC					Project Ecologist					

At end of second year the entire BMP Land will be a state of Facilitated Regeneration in accordance with Society for Ecological Restoration Australasia (2018) National standards for the practice of ecological restoration in Australia.

Table 5 – Year 3 Targets and Schedule of Works

Timeframe	Works to be Undertaken	1st	2 nd	4 th Quarter of Year		Targets to be reached at end of 4th Quarter				
		Quarter of Year	Quarter of Year		Roles and Responsibilities	Abundance of Natives (%)	Cover of Native (%)	Cover of Biosecurity Weeds (%)	Cover of Othe Priority Weeds (%)	
	Annual inspection of no-go Zones, fencing and signs				Civil Contractor / Bush Regeneration Contractor					
	Annual inspection of sediment and erosion controls (or after rainfall events)				Civil Contractor / Bush Regeneration Contractor			<30		
	Annual inspection of ground habitat				Project Ecologist					
	Weed management as required to achieve annual targets				Bush Regeneration Contractor					
Year 3	Biannual monitoring of both terrestrial and aquatic environments including water quality data				Project Ecologist	55	55		<25	
	Replacement of dead or dying plants				Bush Regeneration Contractor					
	Direct seeding of groundcover species in all Zones if required				Bush Regeneration Contractor	3				
	Biannual inspection or Installation of tree guards for pest control if required				Project Ecologist					
	Review of BMP success and failures and update where appropriate for submission with Annual Report to CCC				Project Ecologist					
	Annual Reporting to NBC				Project Ecologist					

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Table 6 - Year 4 Targets and Schedule of Works

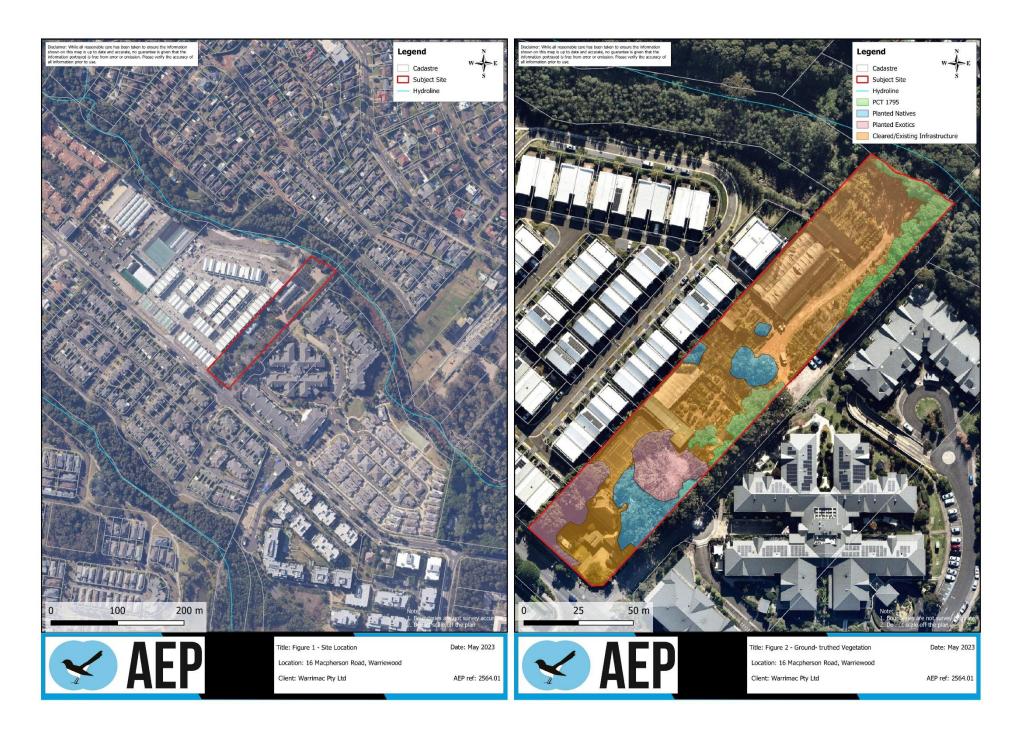
		1st	2 nd	3rd	⊿ th		Targets to be reached at end of 4th Quarter				
Timeframe	Works to be Undertaken		Quarter of Year	Quarter of Year	Quarter of Year	Roles and Responsibilities	Abundance of Natives (%)	Cover of Native (%)	Cover of Biosecurity Weeds (%)	Cover of Other Priority Weeds (%)	
	Annual inspection of sediment and erosion controls (or after rainfall events)					Civil Contractor / Bush Regeneration Contractor			<20		
	Annual inspection of ground habitat					Civil Contractor / Bush Regeneration Contractor					
Year 4	Weed management as required to achieve annual targets					Bush Regeneration Contractor	60	65		<15	
	Biannual monitoring of both terrestrial and aquatic environments including water quality data					Project Ecologist					
	Annual Reporting to NBC					Project Ecologist					

At end of second year the entire BMP Land will be a state of Natural Regeneration Approach in accordance with Society for Ecological Restoration Australasia (2018) National standards for the practice of ecological restoration in Australia.

Table 7 - Year 5 Targets and Schedule of Works

		1st	2nd	3rd	∆ th		Targets to be reached at end of 4th Quarter				
Timeframe	Works to be Undertaken		Quarter of Year	Quarter of Year	Quarter of Year	Roles and Responsibilities	Abundance of Natives (%)	Cover of Native (%)	Cover of Biosecurity Weeds (%)	Cover of Other Priority Weeds (%)	
	Annual inspection of sediment and erosion controls (or after rainfall events)					Civil Contractor / Bush Regeneration Contractor			<10		
	Annual inspection of ground habitat					Civil Contractor / Bush Regeneration Contractor					
Year 5	Weed management as required to achieve annual targets					Bush Regeneration Contractor	70	80		<10	
	Biannual monitoring of both terrestrial and aquatic environments including water quality data					Project Ecologist					
	Final Reporting to NBC					Project Ecologist					

At end of second year the entire BMP Land will be a state of Natural Regeneration Approach in accordance with Society for Ecological Restoration Australasia (2018) National standards for the practice of ecological restoration in Australia.







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Appendix A – Proposed Development

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Appendix B – Regeneration Species List

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Species List – Approximate densities and species for regeneration.

It should be noted that not all of the listed species above are easily obtainable, substitutions to be made on the advice of bush regeneration contractor or Project Ecologist.

Canopy	Density	Shrubs	Density	Ground Cover	Density			
Aquatic Species – Low Flow Channel to Upper Toe								
	N/A	Not Applicable in this Management Zone	N/A	Baumea articulata	6 to 8/1m²			
				Baumea juncea				
				Juncus usitatus				
Not Applicable in this Management Zone				Triglochin procera,				
				Phildrum languinosum				
				Lomandra longifolia				
				Gahnia clarkei				
	PCT 1795 - Coastal flats Swamp Mahogany Forest							
Extensive stands of Casuarina glauca, and groves of Eucalyptus robusta with other native feature trees (listed below)	Must comprise of a minimum of 75% of the total creekline corridor area	Glochidion ferdinandi	1/10m2	Entolasia marginata	5/m ² or Direct Seeding			
	1/30 m²	Casuarina glauca		Hypolepis muelleri				
Eucalyptus robusta		Livistona australis		Commelina cyanea				
Deplete intermifula		Melaleuca linarifolia		Gahnia cyanea				
Banksia integrifolia		Elaeocarpus reticulatus		Viola hederacea				
Acmena smithii		Grevillea sericea		Hydrocotyle peduncularis				
Acmena smitnii		Melaleuca steyphelioides		Pteridium esculentum				
Ceratopetalum apetalum		Homalanthus populifolius		Alternanthera denticulate				
		Acacia longifolia		Calochlaena dubia				
		Dodonaea triquetra		Oplismenus aemulus				
Cyathea australis				Oplismenus imbecillis				
				Phragmites australis				
Cyaurea australis				Blechnum camfieldii				
				Centella asiatica				

ANGOPHORA COSTATA ANGOPHORA FLORIBUNDA EUCALYPTUS PUNCTATA LOPHOSTEMON CONFERTUS SYNCARPIA GLOMULIFERA SYZYGIUM PANICULUTUM WATERHOUSIA FLORIBUNDA

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Appendix C – Priority Weeds of Greater Sydney

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Priority Weeds of Greater Sydney

Note: this region includes the local council areas of Bayside Council, Blacktown, Blue Mountains, Burwood, Camden, Campbelltown, Canada Bay, Canterbury-Bankstown, Central Coast, City of Parramatta, Cumberland, Fairfield, Georges River, Hawkesbury, Hornsby Shire Council, Hunters Hill, Inner West, Ku-ring-gai, Lane Cove, Liverpool, Mosman, North Sydney, Northern Beaches, Penrith, Randwick, Ryde, Strathfield, Sutherland, Sydney, The Hills, Waverley, Willoughby, Wollondilly and Woollahra.

nornsby Shire Council, nunters hill, inner West, Kt	u-ring-gai, Lane Cove, Liverpool, Mosman, North Sydney, Northern Beaches, Penrith, Randwick, Ryde, Strathfield, Sutherland, Sydney, The Hills, Waverley, Willoughby, Wollondilly and Woollahra.
Weed	Duty
All plants	General Biosecurity Duty All plants are regulated with a general biosecurity duty to prevent, eliminate or minimise any biosecurity risk they may pose. Any person who deals with any plant, who knows (or ought to know) of any biosecurity risk, has a duty to ensure the risk is prevented, eliminated or minimised, so far as is reasonably practicable.
Aaron's beard prickly pear Opuntia leucotricha	Prohibition on certain dealings Must not be imported into the state, sold, bartered, exchanged or offered for sale.
African boxthorn Lycium ferocissimum	Prohibition on certain dealings Must not be imported into the state, sold, bartered, exchanged or offered for sale.
African olive Olea europaea subsp. cuspidata	Regional Recommended Measure Land managers mitigate the risk of the plant being introduced to their land. Land managers reduce impacts from the plant on priority assets. Land managers prevent spread from their land where feasible. The plant or parts of the plant are not traded, carried, grown or released into the environment
Alligator weed Alternanthera philoxeroides	Prohibition on certain dealings Must not be imported into the state, sold, bartered, exchanged or offered for sale. Biosecurity Zone The Alligator Weed Biosecurity Zone is established for all land within the state except land in the following regions: Greater Sydney; Hunter (but only in the local government areas of City of Lake Macquarie, City of Maitland, City of Newcastle or Port Stephens). Within the Biosecurity Zone this weed must be eradicated where practicable, or as much of the weed destroyed as practicable, and any remaining weed suppressed. The local control authority must be notified of any new infestations of this weed within the Biosecurity Zone
Anchored water hyacinth Eichhornia azurea	Prohibited Matter A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the Department of Primary Industries
Arrowhead Sagittaria calycina var. calycina	Regional Recommended Measure Land managers should mitigate the risk of new weeds being introduced to their land. The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sold, grown, carried or released into the environment. Notify local control authority if found.
Asparagus fern Asparagus virgatus	Regional Recommended Measure Exclusion zone: whole of region except Newcastle and Lake Macquarie. Core infestation area: Newcastle and Lake Macquarie. Whole of region: Land managers should mitigate the risk of new weeds being introduced to their land. Plant should not be bought, sold, grown, carried or released into the environment. Within exclusion zone: The plant should be eradicated from the land and the land kept free of the plant. Notify the Local Control Authority if found. Land managers should mitigate spread from their land. Within Core infestation: Land managers to reduce impacts from the plant on priority assets.
Athel pine Tamarix aphylla	Prohibition on certain dealings Must not be imported into the state, sold, bartered, exchanged or offered for sale.
Bellyache bush Jatropha gossypiifolia	Prohibition on certain dealings Must not be imported into the state, sold, bartered, exchanged or offered for sale.
Bitou bush Chrysanthemoides monilifera subsp. rotundata	Prohibition on certain dealings Must not be imported into the state, sold, bartered, exchanged or offered for sale. Biosecurity Zone The Bitou Bush Biosecurity Zone is established for all land within the State except land within 10 kilometres of the mean high water mark of the Pacific Ocean between Cape Byron in the north and Point Perpendicular in the south. Within the Biosecurity Zone this weed must be eradicated where practicable, or as much of the weed destroyed as practicable, and any remaining weed suppressed. The local control authority must be notified of any new infestations of this weed within the Biosecurity Zone

2564.01 Warriewood BMP 18 October 2023



Priority Weeds of Greater Sydney

Note: this region includes the local council areas of Bayside Council, Blacktown, Blue Mountains, Burwood, Camden, Campbelltown, Canada Bay, Canterbury-Bankstown, Central Coast, City of Parramatta, Cumberland, Fairfield, Georges River, Hawkesbury, Hornsby Shire Council, Hunters Hill, Inner West, Ku-ring-gai, Lane Cove, Liverpool, Mosman, North Sydney, Northern Beaches, Penrith, Randwick, Ryde, Strathfield, Sutherland, Sydney, The Hills, Waverley, Willoughby, Wollondilly and Woollahra.

Weed	Duty
Black knapweed	Prohibited Matter
Centaurea x moncktonii	A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the Department of Primary Industries
Black willow	Prohibition on certain dealings
Salix nigra	Must not be imported into the state, sold, bartered, exchanged or offered for sale.
	Regional Recommended Measure
	The plant is eradicated from the land and the land is kept free of the plant. Local Control Authority is notified if the plant is found on the land.
Blackberry	Prohibition on certain dealings
Rubus fruticosus species aggregate	Must not be imported into the state, sold, bartered, exchanged or offered for sale.
	All species in the Rubus fruiticosus species aggregate have this requirement, except for the varietals Black Satin, Chehalem, Chester Thornless, Dirksen Thornless, Loch Ness, Murrindindi, Silvan, Smooth Stem, and Thornfree
Blind cactus	Prohibition on certain dealings
Opuntia rufida	Must not be imported into the state, sold, bartered, exchanged or offered for sale.
Boneseed	Prohibition on certain dealings
Chrysanthemoides monilifera subsp. monilifera	Must not be imported into the state, sold, bartered, exchanged or offered for sale.
	Control Order
	Bonseed Control Zone: Whole of NSW
	Boneseed Control Zone (Whole of NSW): Owners and occupiers of land on which there is boneseed must notify the local control authority of new infestations; immediately destroy the plants; ensure
	subsequent generations are destroyed; and ensure the land is kept free of the plant. A person who deals with a carrier of boneseed must ensure the plant (and any seed and propagules) is not moved from the land; and immediately notify the local control authority of the presence of the plant.
Boxing glove cactus	Prohibition on certain dealings
Cylindropuntia fulgida var. mamillata	Must not be imported into the state, sold, bartered, exchanged or offered for sale.
Bridal creeper	Prohibition on certain dealings
Asparagus asparagoides	Must not be imported into the state, sold, bartered, exchanged or offered for sale.
	*this requirement also applies to the Western Cape form of bridal creeper
Bridal veil creeper	Prohibited Matter
Asparagus declinatus	A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the Department of Primary Industries
Broomrapes	Prohibited Matter
Orobanche sp.	A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the Department of Primary Industries
	All species of Orobanche are Prohibited Matter in NSW, except Clover broomrape, Orobanche minor and Australian broomrape, Orobanche cemua var. australiana.
Bunny ears cactus	Prohibition on certain dealings
Opuntia microdasys	Must not be imported into the state, sold, bartered, exchanged or offered for sale.
Cabomba	Prohibition on certain dealings
Cabomba caroliniana	Must not be imported into the state, sold, bartered, exchanged or offered for sale.
	Regional Recommended Measure
	Land managers should mitigate the risk of new weeds being introduced to their land. The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sold, grown, carried or released into the environment. Notify local control authority if found.

2564.01 Warriewood BMP 19 October 2023



Priority Weeds of Greater Sydney

Note: this region includes the local council areas of Bayside Council, Blacktown, Blue Mountains, Burwood, Camden, Campbelltown, Canada Bay, Canterbury-Bankstown, Central Coast, City of Parramatta, Cumberland, Fairfield, Georges River, Hawkesbury, Hornsby Shire Council, Hunters Hill, Inner West, Ku-ring-gai, Lane Cove, Liverpool, Mosman, North Sydney, Northern Beaches, Penrith, Randwick, Ryde, Strathfield, Sutherland, Sydney, The Hills, Waverley, Willoughby, Wollondilly and Woollahra.

Weed	Duty
Cane cactus Austrocylindropuntia cylindrica	Prohibition on certain dealings Must not be imported into the state, sold, bartered, exchanged or offered for sale.
Austrocylinaropantia cylinarica	Must not emplored into the state, sold, particular, sold, particul
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Cape broom	Prohibition on certain dealings
Genista monspessulana	Must not be imported into the state, sold, bartered, exchanged or offered for sale.
Cat's claw creeper	Prohibition on certain dealings
Dolichandra unguis-cati	Must not be imported into the state, sold, bartered, exchanged or offered for sale.
	Regional Recommended Measure
	The plant should not be bought, sold, grown, carried or released into the environment. Land managers should mitigate the risk of the plant being introduced to their land. Land managers should mitigate
	spread from their land. Land managers to reduce impacts from the plant on priority assets.
Chicken dance cactus	Prohibition on certain dealings
Opuntia schickendantzii	Must not be imported into the state, sold, bartered, exchanged or offered for sale.
Chilogo poedlo grass	Prohibition on certain dealings
Chilean needle grass Nassella neesiana	From invitron or tertain dealings Must not be imported into the state, sold, bartered, exchanged or offered for sale.
Chinese knotweed	Regional Recommended Measure
Persicaria chinensis	Land managers should mitigate the risk of new weeds being introduced to their land. The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sold, grown, carried or released into the environment. Notify local control authority if found.
Chinese violet	Control Order
Asystasia gangetica subsp. micrantha	Owners and occupiers of land on which there is Chinese violet must notify the local control authority for the area if the Chinese violet is part of a new infestation on the land, destroy all Chinese violet are destroyed; and keep the land free of Chinese violet. A person who deals with a carrier of Chinese violet must ensure the plant (and any
	seed and propagules) is not moved from the land; and immediately notify the local control authority of the presence of the plant on the land, or on or in a carrier.
Climbing asparagus	Prohibition on certain dealings
Asparagus africanus	Must not be imported into the state, sold, bartered, exchanged or offered for sale.
	Regional Recommended Measure
	Land managers should mitigate the risk of new weeds being introduced to their land. The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sold,
	grown, carried or released into the environment. Notify local control authority if found.
	Prohibition on certain dealings Must not be imported into the state, sold, bartered, exchanged or offered for sale.
Common pear	Prohibition on certain dealings
Opuntia stricta	Must not be imported into the state, sold, bartered, exchanged or offered for sale.
- Openius carota	
Cora Creeper	Regional Recommended Measure
Barleria repens	Land managers should mitigate the risk of new weeds being introduced to their land. The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sold, grown, carried or released into the environment. Notify local control authority if found.
East Indian hygrophila	Regional Recommended Measure
Hygrophila polysperma	Land managers should mitigate the risk of new weeds being introduced to their land. The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sold, grown, carried or released into the environment. Notify local control authority if found.
Eurasian water milfoil	Prohibited Matter
Myriophyllum spicatum	A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the Department of Primary Industries

2564.01 Warriewood BMP 20 October 2023



Note: this region includes the local council areas of Bayside Council, Blacktown, Blue Mountains, Burwood, Camden, Campbelltown, Canada Bay, Canterbury-Bankstown, Central Coast, City of Parramatta, Cumberland, Fairfield, Georges River, Hawkesbury, Hornsby Shire Council, Hunters Hill, Inner West, Ku-ring-gai, Lane Cove, Liverpool, Mosman, North Sydney, Northern Beaches, Penrith, Randwick, Ryde, Strathfield, Sutherland, Sydney, The Hills, Waverley, Willoughby, Wollondilly and Woollahra.

Weed	Duty		
Eve's needle cactus	Prohibition on certain dealings		
Austrocylindropuntia subulata	Must not be imported into the state, sold, bartered, exchanged or offered for sale.		
	All species in the Austrocylindropuntia genus have this requirement		
Fireweed	Prohibition on certain dealings		
Senecio madagascariensis	Must not be imported into the state, sold, bartered, exchanged or offered for sale.		
Flax-leaf broom	Prohibition on certain dealings		
Genista linifolia	Must not be imported into the state, sold, bartered, exchanged or offered for sale.		
Foxtail fern	Prohibition on certain dealings		
Asparagus densiflorus	Must not be imported into the state, sold, bartered, exchanged or offered for sale.		
Frogbit	Prohibited Matter		
Limnobium laevigatum	A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the Department of Primary Industries		
	All species of Limnobium are Prohibited Matter		
Gamba grass	Prohibited Matter		
Andropogon gayanus	A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the Department of Primary Industries		
Giant devil's fig	Regional Recommended Measure		
Solanum chrysotrichum	Land managers should mitigate the risk of new weeds being introduced to their land. The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sold, grown, carried or released into the environment. Notify local control authority if found.		
Giant Reed	Regional Recommended Measure		
Arundo donax	Land managers should mitigate the risk of new weeds being introduced to their land. The plant should not be bought, sold, grown, carried or released into the environment.		
Giant rat's tail grass	Regional Recommended Measure		
Sporobolus pyramidalis	Land managers should mitigate the risk of new weeds being introduced to their land. The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sold, grown, carried or released into the environment. Notify local control authority if found.		
Glory lily	Regional Recommended Measure		
Gloriosa superba	The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sold, grown, carried or released into the environment. Notify local control authority if found.		
Gorse	Prohibition on certain dealings		
Ulex europaeus	Must not be imported into the state, sold, bartered, exchanged or offered for sale.		
	Regional Recommended Measure		
	Exclusion zone: Blue Mountains City Council area. Core infestation area: rest of region		
	Whole region: Land managers should mitigate the risk of new weeds being introduced to their land. The plant or parts of the plant should not be traded, carried, grown or released into the environment. Exclusion zone: The plant should be eradicated from the land and the land kept free of the plant. Core infestation area: Land managers should mitigate spread from their land.		
Green cestrum	Regional Recommended Measure		
Cestrum parqui	Land managers should mitigate the risk of new weeds being introduced to their land. Land managers should mitigate spread from their land. The plant should not be bought, sold, grown, carried or released into the environment. Land managers reduce impacts from the plant on priority assets.		

2564.01 Warriewood BMP 21 October 2023



Note: this region includes the local council areas of Bayside Council, Blacktown, Blue Mountains, Burwood, Camden, Campbelltown, Canada Bay, Canterbury-Bankstown, Central Coast, City of Parramatta, Cumberland, Fairfield, Georges River, Hawkesbury, Hornsby Shire Council, Hunters Hill, Inner West, Ku-ring-gai, Lane Cove, Liverpool, Mosman, North Sydney, Northern Beaches, Penrith, Randwick, Ryde, Strathfield, Sutherland, Sydney, The Hills, Waverley, Willoughby, Wollondilly and Woollahra.

Weed Duty			
Grey sallow	Prohibition on certain dealings		
Salix cinerea	Must not be imported into the state, sold, bartered, exchanged or offered for sale.		
Ground asparagus	Prohibition on certain dealings		
Asparagus aethiopicus	Must not be imported into the state, sold, bartered, exchanged or offered for sale.		
Groundsel bush Baccharis halimifolia	Regional Recommended Measure The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sold, grown, carried or released into the environment. Notify local control authority if found.		
Hawkweeds	Prohibited Matter		
Pilosella species	A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the Department of Primary Industries		
	All species in the genera Pilosella and Hieracium are Prohibited Matter except for Hieracium murorum.		
Holly leaved senecio	Regional Recommended Measure		
Senecio glastifolius	Exclusion zone: whole region except for the core infestation area of the Royal National Park.		
-	Whole region: Land managers mitigate the risk of the plant being introduced to their land. The plant or parts of the plant are not traded, carried, grown or released into the environment. The Local Control Authority should be notified if the plant is found. Exclusion zone: The plant is eradicated and the land kept free of the plant. Core infestation area: Land managers prevent spread from their land where feasible. Land managers reduce impacts from the plant on priority assets.		
Horsetails	Regional Recommended Measure		
Equisetum species	Exclusion zone: whole of region except Northern Beaches local government area. The Northern Beaches local government area is the core area.		
	Whole region: Land managers mitigate the risk of the plant being introduced to their land. Local Control Authority is notified if the plant is found on the land. The plant or parts of the plant are not traded, carried, grown or released into the environment. Exclusion zone: The plant is eradicated from the land and the land is kept free of the plant. Core area: Land managers prevent spread from their land where feasible.		
Hudson pear	Prohibition on certain dealings		
Cylindropuntia pallida	Must not be imported into the state, sold, bartered, exchanged or offered for sale.		
Hydrocotyl	Prohibited Matter		
Hydrocotyle ranunculoides	A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the Department of Primary Industries		
Hygrophila	Regional Recommended Measure		
Hygrophila costata	The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sold, grown, carried or released into the environment. Notify local control authority if found.		
Hymenachne	Prohibition on certain dealings		
Hymenachne amplexicaulis and hybrids	Must not be imported into the state, sold, bartered, exchanged or offered for sale.		
Hymenachne	Regional Recommended Measure		
Hymenachne amplexicaulis and hybrids	Land managers should mitigate the risk of new weeds being introduced to their land. The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sold, grown, carried or released into the environment. Notify local control authority if found.		
Karoo acacia	Prohibited Matter		
Vachellia karroo	A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the Department of Primary Industries		
Kidney-leaf mud plantain	Regional Recommended Measure		
Heteranthera reniformis	Land managers should mitigate the risk of new weeds being introduced to their land. The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sold, grown, carried or released into the environment. Notify local control authority if found.		

2564.01 Warriewood BMP 22 October 2023



Note: this region includes the local council areas of Bayside Council, Blacktown, Blue Mountains, Burwood, Camden, Campbelltown, Canada Bay, Canterbury-Bankstown, Central Coast, City of Parramatta, Cumberland, Fairfield, Georges River, Hawkesbury, Hornsby Shire Council, Hunters Hill, Inner West, Ku-ring-gai, Lane Cove, Liverpool, Mosman, North Sydney, Northern Beaches, Penrith, Randwick, Ryde, Strathfield, Sutherland, Sydney, The Hills, Waverley, Willoughby, Wollondilly and Woollahra.

Weed	Duty		
Kochia	Prohibited Matter		
Bassia scoparia	A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately Department of Primary Industries		
	Excluding the subspecies trichophylia		
Koster's curse	Prohibited Matter		
Clidemia hirta	A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the		
	Department of Primary Industries		
Kudzu	Regional Recommended Measure		
Pueraria lobata	The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sold, grown, carried or released into the environment. Notify local control authority if found.		
Lagarosiphon	Prohibited Matter		
Lagarosiphon major	A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the Department of Primary Industries		
Lantana	Prohibition on certain dealings		
Lantana camara	Must not be imported into the state, sold, bartered, exchanged or offered for sale.		
Leaf cactus	Regional Recommended Measure		
Pereskia aculeata	The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sold, grown, carried or released into the environment. Notify local control authority if found.		
Ludwigia	Regional Recommended Measure		
Ludwigia peruviana	Land managers mitigate the risk of the plant being introduced to their land. Land managers prevent spread from their land where feasible. Land managers reduce the impact on priority assets. The plant should not be bought, sold, grown, carried or released into the environment. Local Control Authority is notified if the plant is found on the land.		
Madeira vine	Prohibition on certain dealings		
Anredera cordifolia	Must not be imported into the state, sold, bartered, exchanged or offered for sale.		
Mesquite	Prohibition on certain dealings		
Prosopis species	Must not be imported into the state, sold, bartered, exchanged or offered for sale.		
other property of the contraction of the contractio	All species in the genus Prosopis have this requirement		
Mexican feather grass	Prohibited Matter		
Nassella tenuissima	A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the Department of Primary Industries		
Miconia	Prohibited Matter		
Miconia species	A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the Department of Primary Industries		
	All species of Miconia are Prohibited Matter in NSW		
Mikania vine	Prohibited Matter		
Mikania micrantha	A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the Department of Primary Industries		
	*all species in the genus Mikania are Prohibited Matter in NSW		

254.01 Warriewood BMP 23 October 2023



Note: this region includes the local council areas of Bayside Council, Blacktown, Blue Mountains, Burwood, Camden, Campbelltown, Canada Bay, Canterbury-Bankstown, Central Coast, City of Parramatta, Cumberland, Fairfield, Georges River, Hawkesbury, Hornsby Shire Council, Hunters Hill, Inner West, Ku-ring-gai, Lane Cove, Liverpool, Mosman, North Sydney, Northern Beaches, Penrith, Randwick, Ryde, Strathfield, Sutherland, Sydney, The Hills, Waverley, Willoughby, Wollondilly and Woollahra.

Weed	Duty		
Mimosa	Prohibited Matter		
Mimosa pigra	A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the Department of Primary Industries		
Ming asparagus fern	Regional Recommended Measure		
Asparagus macowanii	Land managers should mitigate the risk of new weeds being introduced to their land. The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sold, grown, carried or released into the environment. Notify local control authority if found		
Mysore thorn	Regional Recommended Measure		
Caesalpinia decapetala	The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sold, grown, carried or released into the environment.		
Nodding thistle	Regional Recommended Measure		
Carduus nutans subsp. nutans	Land managers should mitigate the risk of new weeds being introduced to their land. The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sold, grown, carried or released into the environment. Notify local control authority if found.		
Pampas grass	Regional Recommended Measure		
Cortaderia species	Exclusion zone: Upper Hunter local government area. Core infestation area: Port Stephens, Maitland, Cessnock, Lack Macquarie, Newcastle and MidCoast local government areas.		
	Whole region: The plant should not be bought, sold, grown, carried or released into the environment. Exclusion zone: The plant should be eradicated from the land and the land kept free of the plant. Land managers should mitigate the risk of the plant being introduced to their land. Core infestation area: Land managers should mitigate spread from their land. Land managers to reduce impacts from the plant on priority assets.		
Parkinsonia	Prohibition on certain dealings		
Parkinsonia aculeata	Must not be imported into the state, sold, bartered, exchanged or offered for sale.		
Parkinsonia	Control Order		
Parkinsonia aculeata	Parkinsonia Control Zone: Whole of NSW		
	Parkinsonia Control Zone (Whole of NSW): Owners and occupiers of land on which there is parkinsonia must notify the local control authority of new infestations; immediately destroy the plants; ensure subsequent generations are destroyed; and ensure the land is kept free of the plant. A person who deals with a carrier of parkinsonia must ensure the plant (and any seed and propagules) is not moved from the land; and immediately notify the local control authority of the presence of the plant.		
Parthenium weed	Prohibited Matter		
Parthenium hysterophorus	A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the Department of Primary Industries		
Parthenium weed	Prohibition on certain dealings		
Parthenium hysterophorus	The following equipment must not be imported into NSW from Queensland: grain harvesters (including the comb or front), comb trailers (including the comb or front), bins used for holding grain during harvest operations, augers or similar for moving grain, vehicles used to transport grain harvesters, support vehicles driven in paddocks during harvest operations, mineral exploration drilling rigs and vehicles used to transport those rigs, unless set out as an exception in Division 5, Part 2 of the Biosecurity Order (Permitted Activities) 2017		
Paterson's curse	Regional Recommended Measure		
Echium plantagineum	Land managers should mitigate the risk of new weeds being introduced to their land. Land managers should mitigate spread from their land. The plant should not be bought, sold, grown, carried or release into the environment. Land managers reduce impacts from the plant on priority assets.		

254-0.1 Warriewood BMP 24 October 2023



Note: this region includes the local council areas of Bayside Council, Blacktown, Blue Mountains, Burwood, Camden, Campbelltown, Canada Bay, Canterbury-Bankstown, Central Coast, City of Parramatta, Cumberland, Fairfield, Georges River, Hawkesbury, Hornsby Shire Council, Hunters Hill, Inner West, Ku-ring-gai, Lane Cove, Liverpool, Mosman, North Sydney, Northern Beaches, Penrith, Randwick, Ryde, Strathfield, Sutherland, Sydney, The Hills, Waverley, Willoughby, Wollondilly and Woollahra.

Weed	Duty		
Pond apple	Prohibited Matter		
Annona glabra	A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the Department of Primary Industries		
Prickly acacia	Prohibited Matter		
Vachellia nilotica	A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the Department of Primary Industries		
Prickly pears - Austrocylindropuntias	Prohibition on certain dealings		
Austrocylindropuntia species	Must not be imported into the state, sold, bartered, exchanged or offered for sale. All species in the Austrocylindropuntia genus have this requirement		
Prickly pears - Cylindropuntias	Prohibition on certain dealings		
Cylindropuntia species	Must not be imported into the state, sold, bartered, exchanged or offered for sale.		
	All species in the Cylindropuntia genus have this requirement		
Prickly pears - Opuntias	Prohibition on certain dealings		
Opuntia species	Must not be imported into the state, sold, bartered, exchanged or offered for sale.		
	For all Opuntia species except for Opuntia ficus-indica (Indian fig).		
Rattlepod	Regional Recommended Measure		
Crotalaria beddomeana	Land managers should mitigate the risk of new weeds being introduced to their land. Land managers should mitigate spread from their land. The plant should not be bought, sold, grown, carried or release into the environment. Land managers reduce impacts from the plant on priority assets.		
Rope pear	Prohibition on certain dealings		
Cylindropuntia imbricata	Must not be imported into the state, sold, bartered, exchanged or offered for sale.		
	All species in the Cylindropuntia genus have this requirement		
Rubber vine	Prohibited Matter		
Cryptostegia grandiflora	A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the Department of Primary Industries		
Sagittaria	Prohibition on certain dealings		
Sagittaria platyphylla	Must not be imported into the state, sold, bartered, exchanged or offered for sale.		
Sagittaria	Regional Recommended Measure		
Sagittaria platyphylla	Land managers should mitigate the risk of new weeds being introduced to their land. Land managers should mitigate spread from their land. The plant should not be bought, sold, grown, carried or released into the environment. Land managers reduce impacts from the plant on priority assets.		
Salvinia	Prohibition on certain dealings		
Salvinia molesta	Must not be imported into the state, sold, bartered, exchanged or offered for sale.		
Salvinia	Regional Recommended Measure		
Salvinia molesta	Land managers should mitigate the risk of new weeds being introduced to their land. Land managers should mitigate spread from their land. The plant should not be bought, sold, grown, carried or released into the environment. Land managers reduce impacts from the plant on priority assets.		
	This Regional Recommended Measure applies to Salvinia molesta and Salvinia minima		
Scotch broom	Prohibition on certain dealings		
Cytisus scoparius subsp. scoparius	Must not be imported into the state, sold, bartered, exchanged or offered for sale.		

2564.01 Warriewood BMP 25 October 2023



Note: this region includes the local council areas of Bayside Council, Blacktown, Blue Mountains, Burwood, Camden, Campbelltown, Canada Bay, Canterbury-Bankstown, Central Coast, City of Parramatta, Cumberland, Fairfield, Georges River, Hawkesbury, Hornsby Shire Council, Hunters Hill, Inner West, Ku-ring-gai, Lane Cove, Liverpool, Mosman, North Sydney, Northern Beaches, Penrith, Randwick, Ryde, Strathfield, Sutherland, Sydney, The Hills, Waverley, Willoughby, Wollondilly and Woollahra.

Hornsby Shire Council, Hunters Hill, Illner VV	est, Ru-ring-gai, Lane Cove, Liverpool, Mosman, North Sydney, Northern Beaches, Pennin, Randwick, Ryde, Stratmierd, Sydney, The Hills, Waveney, Willoughdy, Wollondilly and Woollanta.	
Weed	Duty	
Scotch broom Cytisus scoparius subsp. scoparius	Regional Recommended Measure Exclusion zone: whole region except for the core infestation area of the Upper Hunter (Barrington Tops) Whole region: The plant should not be bought, sold, grown, carried or released into the environment. Exclusion zone: The plant should be eradicated from the land and the land kept free of the plant. Land managers should mitigate the risk of the plant being introduced to their land. Core infestation area: Land managers to reduce impacts from the plant on priority assets.	
Sea spurge Euphorbia paralias	Regional Recommended Measure Exclusion zone: whole region except for the core infestation area of Yaccaba Peninsula, Hawks Nest. Whole region: The plant should not be bought, sold, grown, carried or released into the environment. Exclusion zone: The plant should be eradicated from the land and the land kept free of the plant. Land managers should mitigate the risk of the plant being introduced to their land. Core infestation area: Land managers should mitigate spread from their land. Land managers to reduce impacts from the plant on priority assets.	
Senegal tea plant Gymnocoronis spilanthoides	Regional Recommended Measure Land managers should mitigate the risk of new weeds being introduced to their land. The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sold, grown, carried or released into the environment. Notify local control authority if found.	
Serrated tussock Nassella trichotoma	Prohibition on certain dealings Must not be imported into the state, sold, bartered, exchanged or offered for sale.	
Serrated tussock Nassella trichotoma	Regional Recommended Measure Land managers should mitigate the risk of new weeds being introduced to their land. The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sole grown, carried or released into the environment. Notify local control authority if found.	
Siam weed Chromolaena odorata	Prohibited Matter A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the Department of Primary Industries	
Sicilian sea lavender Limonium hyblaeum	Regional Recommended Measure Land managers should mitigate the risk of new weeds being introduced to their land. The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sold, grown, carried or released into the environment. Notify local control authority if found.	
Sicklethorn Asparagus falcatus	Regional Recommended Measure Land managers should mitigate the risk of new weeds being introduced to their land. The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sold, grown, carried or released into the environment. Notify local control authority if found.	
Silverleaf nightshade Solanum elaeagnifolium	Prohibition on certain dealings Must not be imported into the state, sold, bartered, exchanged or offered for sale.	
Silverleaf nightshade Solanum elaeagnifolium	Regional Recommended Measure Land managers should mitigate the risk of new weeds being introduced to their land. The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sold, grown, carried or released into the environment. Notify local control authority if found.	
Smooth tree pear Opuntia monacantha	Prohibition on certain dealings	
Smooth tree pear Opuntia monacantha Snakefeather	Must not be imported into the state, sold, bartered, exchanged or offered for sale. Prohibition on certain dealings	
Asparagus scandens		
Snakefeather	Must not be imported into the state, sold, bartered, exchanged or offered for sale.	

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Note: this region includes the local council areas of Bayside Council, Blacktown, Blue Mountains, Burwood, Camden, Campbelltown, Canada Bay, Canterbury-Bankstown, Central Coast, City of Parramatta, Cumberland, Fairfield, Georges River, Hawkesbury, Hornsby Shire Council, Hunters Hill, Inner West, Ku-ring-gai, Lane Cove, Liverpool, Mosman, North Sydney, Northern Beaches, Penrith, Randwick, Ryde, Strathfield, Sutherland, Sydney, The Hills, Waverley, Willoughby, Wollondilly and Woollahra.

Hornsby Shire Council, Hunters Hill, Inner V	Vest, Ku-ring-gai, Lane Cove, Liverpool, Mosman, North Sydney, Northern Beaches, Penrith, Randwick, Ryde, Strathfield, Sutherland, Sydney, The Hills, Waverley, Willoughby, Wollondilly and Woollahra.		
Weed	Duty		
Asparagus scandens	Regional Recommended Measure		
Snakefeather	Exclusion zone: Hunter region except Cessnock and Lake Macquarie. Core infestation area: Cessnock and Lake Macquarie		
Asparagus scandens	Whole of region: Land managers should mitigate the risk of new weeds being introduced to their land. The plant should not be bought, sold, grown, carried or released into the environment. Exclusion Zc. The plant should be eradicated from the land and the land kept free of the plant. Notify the Local Control Authority if found. Within Core infestation: Land managers to reduce impacts from the plant on priority assets.		
Spongeplant	Prohibited Matter		
Limnobium spongia	A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the Department of Primary Industries All species of Limnobium are Prohibited Matter		
Spotted knapweed	Prohibited Matter		
Centaurea stoebe subsp. micranthos	A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the Department of Primary Industries		
Tiger pear Opuntia aurantiaca	Prohibition on certain dealings		
Tiger pear	Must not be imported into the state, sold, bartered, exchanged or offered for sale.		
Opuntia aurantiaca	Regional Recommended Measure		
Tiger pear Opuntia aurantiaca	Land managers should mitigate the risk of new weeds being introduced to their land. Land managers should mitigate spread from their land. The plant should not be bought, sold, grown, carried or reinto the environment. Land managers reduce impacts from the plant on priority assets.		
Tropical soda apple	Control Order		
Solanum viarum	Tropical Soda Apple Control Zone: Whole of NSW		
	Tropical Soda Apple Control Zone (Whole of NSW): Owners and occupiers of land on which there is tropical soda apple must notify the local control authority of new infestations; destroy the plants including the fruit; ensure subsequent generations are destroyed; and ensure the land is kept free of the plant. A person who deals with a carrier of tropical soda apple must ensure the plant (and any seed and propagules) is not moved from the land, and immediately notify the local control authority of the presence of the plant on the land, or on or in a carrier.		
Velvety tree pear	Prohibition on certain dealings		
Opuntia tomentosa	Must not be imported into the state, sold, bartered, exchanged or offered for sale.		
Water caltrop	Prohibited Matter		
Trapa species	A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the		
	Department of Primary Industries All species in the Trapa genus are Prohibited Matter in NSW		
Water hyacinth	The state of the s		
Eichhornia crassipes	Prohibition on certain dealings Must not be imported into the state, sold, bartered, exchanged or offered for sale.		
Water hyacinth	Biosecurity Zone		
Eichhornia crassipes	The Water Hyacinth Biosecurity Zone applies to all land within the State, except for the following regions: Greater Sydney or North Coast, North West (but only the local government area of Moree Plains), Hunter (but only in the local government areas of City of Cessnock, City of Lake Macquarie, MidCoast, City of Maitland, City of Newcastle or Port Stephens), South East (but only in the local government areas of Eurobodalla. Kiama. City of Shellharbour. City of Shoalhaven or City of Wollongong).		

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Note: this region includes the local council areas of Bayside Council, Blacktown, Blue Mountains, Burwood, Camden, Campbelltown, Canada Bay, Canterbury-Bankstown, Central Coast, City of Parramatta, Cumberland, Fairfield, Georges River, Hawkesbury, Hornsby Shire Council, Hunters Hill, Inner West, Ku-ring-gai, Lane Cove, Liverpool, Mosman, North Sydney, Northern Beaches, Penrith, Randwick, Ryde, Strathfield, Sutherland, Sydney, The Hills, Waverley, Willoughby, Wollondilly and Woollahra.

Weed	Duty	
	Within the Biosecurity Zone this weed must be eradicated where practicable, or as much of the weed destroyed as practicable, and any remaining weed suppressed. The local control authority must be notified of any new infestations of this weed within the Biosecurity Zone	
Water lettuce	Regional Recommended Measure	
Pistia stratiotes	Land managers should mitigate the risk of new weeds being introduced to their land. The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sold grown, carried or released into the environment. Notify local control authority if found.	
Water soldier	Prohibited Matter	
Stratiotes aloides	A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the Department of Primary Industries	
Water star grass	Regional Recommended Measure	
Heteranthera zosterifolia	Land managers should mitigate the risk of new weeds being introduced to their land. The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sold, grown, carried or released into the environment. Notify local control authority if found.	
Wheel cactus	Prohibition on certain dealings	
Opuntia robusta	Must not be imported into the state, sold, bartered, exchanged or offered for sale.	
White blackberry	Regional Recommended Measure	
Rubus niveus	Land managers should mitigate the risk of new weeds being introduced to their land. The plant should be eradicated from the land and the land kept free of the plant. The plant should not be bought, sold, grown, carried or released into the environment. Notify local control authority if found.	
Willows	Prohibition on certain dealings	
Salix species	Must not be imported into the state, sold, bartered, exchanged or offered for sale.	
	All species in the Salix genus have this requirement, except Salix babylonica (weeping willows), Salix x calodendron (pussy willow) and Salix x reichardtii (sterile pussy willow)	
Witchweeds	Prohibited Matter	
Striga species	A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter must immediately notify the Department of Primary Industries	
	All species in the Striga genus are Prohibited Matter in NSW, except the native Striga parviflora	
Yellow burrhead	Prohibited Matter	
A person who deals with prohibited matter or a carrier of prohibited matter is guilty of an offence. A person who becomes aware of or suspects the presence of prohibited matter Department of Primary Industries		

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Appendix D – BMP Lands Signage

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NO UNAUTHORISED ENTRY This is a Vegetation Rehabilitation Area

- NO DUMPING or WASTE DISPOSAL
- NO ANIMALS, VEHICLES or MACHINERY

For information – contact Site Manager

400mm erected and maintained at key access points to VMP lands for the life of the project AEP VMP SIGNAGE permanent sign, minimum size 600mm x



Appendix E – CV

Staff	Title/Qualification	Tasks
Natalie Black	Senior Environmental Manager BSc (Hons), Master Planning, Cert IV (TA) BAAS: 19076	Report Review
Jeremy Burrill	Ecologist B.Env.Sc (MS)	Field Surveys, Report Author
Catherine Stanislaus	Ecologist B.Com Env Sc - under study	Field Surveys

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CATHERINE STANISLAUS

Curriculum Vitae

Frances is a Senior Ecologist and Lead Botanist with Anderson Environment and Planning, being an Accredited Assessor with over 12 years-experience in environmental impact assessment, environmental education, conservation land management, bush regeneration, wildlife rescue and rehabilitation, environmental sustainability, and environmental law.

Qualifications

Bachelor of Commerce and Science (majoring in Ecology), UNSW, 2022

Further Education & Training

- NSW Class C Driver's Licence
- · Graduated with Distinction in Ecology

Fields of Competence

· Terrestrial Ecology field survey, covering terrestrial flora and fauna

Relevant Employment History

2022 - Present Ecologist

Anderson Environment & Planning, Newcastle

2021 ENVIRONMENTAL LABORATORY RESEARCH INTERNSHIP

UNSW

Oyster Research Project

Relevant Volunteer Experience

2021 LAKE ILLAWARRA, ENVIRONMENTAL CONSULTANCY

PROJECT UNSW

Jeremy Burrill

Curriculum Vitae

Jeremy works with AEP in the role of Ecologist. He is a graduate of environmental science and management, and has experience in voluntary roles in environmental fields, involving fauna and flora surveying, consultancy projects and natural resource management. His background in environmental fields with his growing ecological knowledge is utilised in a diverse array of applications in his current role.

Qualifications

Bachelor of Environmental Science (Environmental Management and Sustainability)
 Deakin University (2020)

Further Education & Training

- · Apply First Aid
- · Victorian Driver's License
- Work Health & Safety General Construction Induction
- · Work Safely at Heights

Fields of Competence

- · Ecological field surveys
- Fauna surveys and trapping
- · Natural resource management

Relevant Employment History

2020 - Present Ecologist

Anderson Environment & Planning, Newcastle

Currently employed by Anderson Environment & Planning to assist in the provision of consulting services to land, property, legal and government sectors. Covering ecological, project management, environmental, bushfire, planning services, advices, strategy and representation.

Volunteer Experience

- Overseas University Volunteer Placement (New Zealand, 2018)
- Industry Placement (Parks Victoria, 2019)

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Natalie Black

Curriculum Vitae

Natalie works with AEP in the role of Senior Environmental Manager. She has extensive knowledge in environmental management, environmental planning, and report writing and assessment. With a detail understanding of planning, catchment management, coastal management and rehabilitation. Natalie has had a successful career with both state and local government in conservation, planning and field investigation roles. Natalie has also gained extensive communication skills and project management through her previous career in lecturing. Her background and experience in the ecological and planning fields is utilised in a diverse array of application in her current role.

Qualifications

- B.Sc (Hons), University of Newcastle, 2002 Sustainable Resource Management and Marine Science.
- Master Planning, University of Technology Sydney 2007.
- Certificate IV Training and Assessment at NSW TAFE 2012.
- BAM Assessor; accreditation number: BAAS19076.

Further Education & Training

- Evidence Gathering and Legal Process (Australian Institute of Environmental Health).
- Conflict Resolution Course (LGSA).
- Report Writing Course (LGSA).
- · Powerful Presentation (LGSA).
- NSW Rural Fire Services Bush Fire Assessment
- Relocation of Threatened Species (Botanical Gardens Sydney).
- Sustainable Home Assessment Reduction Revolution.
- Flora and Fauna Survey Assessments Niche Environment and Heritage.
- First Aid TAFE.

Fields of Competence

- Environmental Planning
- Environmental Management and rehabilitation of catchments coastal waterways.
 Statement of Environmental Effects (preparation and assessing).
- Fish Passage
- Marine ecosystems including; mangroves, seagrasses, algae, Fauna and habitat assessment.
- vegetation.
- · Communicating with a wide range of stakeholders.
- Development Application.
- Education in both Environmental and Planning industries.
- Koala Plans of Management.
- Policy Development.

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Relevant Employment History

2019 – Present Senior Environmental Manager

Anderson Environment & Planning, Newcastle

2010 - 2019 Principal Environmental Planner

Black Earth

2003-2010 Natural Resource Manager and

Development Assessment Officer

Lismore City

2002- 2003 Jervis Bay Indigenous Fishing Strategy

ATTACHMENT 4 - CONCEPT SUBDIVISION PLAN PREPARED BY CRAIG & RHODES

