

Our Ref: 5075  
 Date: 20 May 2025  
 To: Wanda Beach Estate Pty Ltd  
 c/-: EJE Architecture  
 Via Email: GCollins@eje.com.au

Dear Georgie,

**Re: Ecological Impacts Letter for Proposed Upgrading of Fire Trails and Paths  
 Lot 2 DP 791551, 8 Fleet Street, Salamander Bay, NSW.**

## Introduction

EJE Architecture, on behalf of Wanda Beach Estate Pty Ltd (the Client) have requested this Ecological Impacts Letter (EIL) to support a proposal to upgrade of fire trails and tracks for bushfire protection in Lot 2 DP 791551, known as 8 Fleet Street, Salamander Bay, NSW (the Site). The Site location is shown in **Attachment A: Figure 1**.

At the request of the Client, Anderson Environment & Planning (AEP) has undertaken necessary investigations to assess impacts upon biodiversity associated with the Proposal. The Proposal would require the removal of approx. 0.033ha of vegetation, including nine (9) native canopy trees adjoining existing tracks and fire trails.

For the purposes of referencing, this document should be cited as Anderson Environment & Planning (2025). *Ecological Impacts Letter Proposed Upgrading of Fire Trails and Paths, Lot 2 DP 791551, 8 Fleet Street, Salamander Bay, NSW*. Unpublished report for Wanda Beach Estate Pty Ltd, May 2025.

## The Proposal

Proposed works to comply with RFS *Planning for Bushfire Protection, 2021*, include: upgrading the Fire Trail to Cat 1, constructing emergency access to the Site using the Section 138-approved area for additional access for construction traffic, and upgrading parts of the fire trail for access.

The Works would be constructed in accordance with relevant New South Wales bushfire specifications and guidelines. The preliminary development plan is shown in **Attachment A: Figure 2**.

## The Site

Site details are shown in **Table 1**.

**Table 1 – Site Particulars**

Detail	Comments
Title	Lot 2 DP 791551.
Site	The Site encompasses remnant bushland with fire trails and walking tracks.
LGA	Port Stephens.

**AEP**

Detail	Comments
Zoning	The Site is zoned C2 - Environmental Conservation and R2 - Low Density Residential.
Current Land Use	The Site is located in Salamander Bay and it is an existing bushland with fire trails and paths on land known as Lot 2 DP79155. The eastern part of the Site is managed as Bushfire APZ. The dominant canopy species includes <i>Eucalyptus resinifera</i> , <i>Eucalyptus piperita</i> , <i>Corymbia gummifera</i> and <i>Melaleuca quinquenervia</i> .
Surrounding Land Use	The Site is bordered by low-density residential zoned land to the north and east, remnant bushland to the west, and a holiday caravan park to the south.

## Information Sources and Database Searches

Information and spatial data provided within this EA has been compiled from various sources including:

- NearMap and aerial photograph interpretation (API) of the site and surrounding locality;
- NSW Biodiversity Values Map (accessed March 2025);
- NSW Government Survey Guidelines (DEC 2004; DECC 2009; OEH 2018; DPIE 2020a; DPIE 2020b; DPE 2022a);
- DPE Threatened Species, Populations and Ecological Communities website ([https://www.environment.nsw.gov.au/AtlasApp/UI\\_Modules/TSM\\_/Default.aspx?a=1](https://www.environment.nsw.gov.au/AtlasApp/UI_Modules/TSM_/Default.aspx?a=1)) (accessed August 2024);
- NSW Rural Fire Service (2019). *Planning for Bushfire Protection*, NSW RFS, November 2019;
- Port Stephens Council (2002). *Port Stephens Council Comprehensive Koala Plan of Management (CKPoM) – June 2002*. Prepared by Port Stephens Council with the Australian Koala Foundation; and
- Collective knowledge gained from previous ecological survey and assessment in the Port Stephens LGA over the past 25 years.

Additionally, database searches were carried out, namely:

- Review of flora and fauna records held by the BioNet Atlas of NSW Wildlife within a 10km radius of the Site (March 2025) and;
- Review of flora and fauna records held by the Commonwealth Department of Climate Change, Energy, the Environment and Water (DCCEEW) Protected Matters Search within a 10km radius of the Site (March 2025).

## Previous Assessments

The Site has been subject to various assessments since 2021. Previous assessments and reports by AEP referenced in the EIL include:

AEP (September 2021), *Ecological Assessment Report for Proposed Subdivision, Lots 1 to 20 and Lots 25-50 DP 285191, Fleet Street, Salamander Bay, NSW* (the EAR);

AEP (September 2024). *Bushfire Threat Assessment for Proposed Residential Infill Development at 4 Fleet Street, Salamander Bay, NSW* (the BTA); and

AEP (May, 2025) *Preliminary Arborist Assessment to assist the client in identifying the important trees to retain in the proposed Update of Fire Trail and Paths on land Lot 2 DP 791551 at 8 Fleet Street, Salamander Bay, NSW* (the AIA).

**AEP**

## Considerations of Biodiversity Offsets Scheme

There are three criteria that require assessment under the Biodiversity Offsets Scheme (BOS) to determine whether or not entry into the BOS is required. The three criteria are::

1. Whether or not the site contains Biodiversity Values Mapped land;
2. Whether or not it exceeds the Area Clearing Threshold applicable to the minimum lot size; and/or
3. Whether or not a 5-part Test of Significance determines that a significant impact on threatened biodiversity is likely to occur.

## Biodiversity Values Map

The Biodiversity Values Map (BV Map) identifies land with high biodiversity value, as defined by the *Biodiversity Conservation Regulation 2017*. The BOS applies to all local developments, major projects or the clearing of native vegetation where the SEPP (Vegetation in Non-Rural Areas) 2017 applies. Any of these will require entry into the BOS if they occur on land mapped on the BV Map. Exempt and complying development or private native forestry are not subject to the BOS.

BV mapped land occurs within the Study Area. However, as the proposed development does occur on BV Mapped Land, the Proposal does not trigger the BOS under this criterion.

## Area Clearing Threshold

The Area Clearing threshold trigger is as follows: “*The area threshold varies depending on the minimum lot size (shown in the Lot Size Maps made under the relevant Local Environmental Plan (LEP)), or actual lot size (where there is no minimum lot size provided for the relevant land under the LEP). The area threshold applies to all proposed native vegetation clearing associated with a development proposal*”.

The minimum lot sizes for the Site are:

- C2 Land – 40ha; and
- R2 zoned land – 0.25ha.

Therefore, the smallest is used for the assessment.

**Table 2 – Area Clearing Thresholds**

Minimum lot size	Threshold for clearing, above which the BOS applies
<1ha	>0.25ha
1ha to <40ha	>0.5ha
40ha to <1000ha	>1.0ha
>1000ha	>2ha

Considering **Table 2**, the proposed removal of approx. 450m<sup>2</sup> or 0.045 ha of native vegetation is under the 0.25ha clearing threshold. As such, the BOS is not triggered based on the clearing threshold, and the preparation of a BDAR is not required.

## Test of Significance

Following the above assessments, it is a requirement to determine whether or not the development is likely to significantly affect threatened species, ecological communities or their habitats using a Test of Significance. The Test of Significance is used to undertake qualitative analysis of the likely impacts and

determine whether further assessment is required in association with the development. As part of this Ecological Assessment Report, a Five-part Test of Significance has been undertaken.

## Desktop Assessment of Impacts on Biodiversity

Part 5, Section 5.5 of the EP&A Act requires that assessment of the proposed works considers environmental impacts. A search and review of threatened species' records in the DPE BioNet Atlas within 100km<sup>2</sup> of the Site ([www.environment.nsw.gov.au/topics/animals-and-plants/biodiversity/nsw-bionet](http://www.environment.nsw.gov.au/topics/animals-and-plants/biodiversity/nsw-bionet)) was undertaken on 31 March, 2025.

Given the level of assessment of the Site in previous assessment, the 5-part test was applied to the following species previously recorded in the Site:

- *Ninox strenua* (Powerful Owl);
- *Haliaeetus leucogaster* (White-bellied Sea-Eagle);
- *Pandion cristatus* (Eastern Osprey);
- *Phascolarctos cinereus* (Koala);
- *Callistemon linearifolius* (Netted Bottle Brush);
- *Asperula asthenes* (Trailing Woodruff); and
- *Corybas dowlingii* (Red Helmet Orchid).

Following the Precautionary Principle and to ensure best practice, the desktop results were assessed under BC Act Section 7.3 (5-part test of significance). The 5-part test follows in **Table 3** and the Threatened Species Search Table is provided as **Attachment C**.

## Threatened Species Search and Assessment

Section 7.3 of the BC Act lists five factors that must be taken into account in determining the significance of potential impacts of proposed activities on threatened species, populations, ecological communities and/or their habitats as listed within the BC Act.

The 5-part test was used to determine whether there is likely to be a significant impact, and thus whether the Biodiversity Offsets Scheme (BOS) is triggered, is provided below in **Table 3**.

**Table 3 – Subject Species identified within the Site or locality since January 2005**

Clause	Assessment Required	Assessment
7(1)(a)	<p><i>In the case of a threatened species, whether the proposed development or activity is likely to have an adverse effect on the life cycle of the species such that a viable local population of the species is likely to be placed at risk of extinction.</i></p> <p><b>Bionet records for the species identified within the Site or adjoining Stoney Ridge Reserve (SRR) (see Figure 3):</b></p> <ul style="list-style-type: none"><li>• <i>Ninox strenua;</i></li><li>• <i>Haliaeetus leucogaster;</i></li><li>• <i>Pandion cristatus;</i></li><li>• <i>Phascolarctos cinereus;</i></li><li>• <i>Callistemon linearifolius;</i></li><li>• <i>Asperula asthenes; and</i></li><li>• <i>Corybas dowlingii.</i></li></ul> <p><b>7 (1) (a) Conclusion</b></p>	<p><b><i>Ninox strenua</i></b></p> <p>With no nesting hollows the Site would offer marginal foraging habitat at best, hence no significant impact to the species.</p> <p><b><i>Pandion cristatus</i></b></p> <p>No nesting habitat impacted, hence no significant impact to the species.</p> <p><b><i>Haliaeetus leucogaster</i></b></p> <p>No nesting habitat impacted, hence no significant impact to the species.</p> <p><b><i>Phascolarctos cinereus</i></b></p> <p>Five (5) small (&lt;0.4m DBH) removed, hence no significant impact to the species. Assessment against the CKPoM is provided in <b>Table 4</b> herein.</p> <p><b><i>Callistemon linearifolius</i></b></p> <p>Approx. 0.033ha of habitat removed, considering the intact habitat in the locality, no significant impact to the species.</p> <p><b><i>Corybas dowlingii</i></b></p> <p>Approx. 0.033ha of habitat removed, considering the intact habitat in the locality, no significant impact to the species.</p> <p><b>With over 50ha of retained habitat in Stoney Ridge Reserve and surrounds, AEP considers the Proposal would not have an adverse effect on the life cycle of any species such that a local population would be placed at risk of extinction.</b></p>
7(1)(b)	<p><i>In the case of an endangered ecological community or critically endangered ecological community, whether the proposed development or activity:</i></p> <ol style="list-style-type: none"><li><i>is likely to have an adverse effect on the extent of the ecological community such that its local occurrence is likely to be placed at risk of extinction, or</i></li><li><i>is likely to substantially and adversely modify the composition of the ecological community such that its local occurrence is likely to be placed at risk of extinction.</i></li></ol> <p><b>7 (1) (b) Conclusion</b></p>	Ground truthing in the EAR revealed that 0.1ha of PCT 1626 - Smooth-barked Apple - Broad-leaved Mahogany - Red Bloodwood heathy low open forest on hills at Nelson Bay, this PCT is not associated with a Threatened Endangered Community (TEC).
7(1)(c)	<ol style="list-style-type: none"><li><i>In relation to the habitat of a threatened species or ecological community;</i></li><li><i>the extent to which habitat is likely to be removed or modified as a result of the proposed development or activity, and</i></li><li><i>whether an area of habitat is likely to become fragmented or isolated from other areas of habitat as a result of the proposed development or activity, and</i></li><li><i>the importance of the habitat to be removed, modified, fragmented, or isolated to the long-term survival of the species or ecological community in the locality.</i></li></ol> <p><b>7 (1) (c) Conclusion</b></p>	As approx. 0.033ha of disturbed remnant vegetation would be removed, Proposal would have minimal to no impact on habitat.



**AEP**

Clause	Assessment Required	Assessment
7(1)(d)	<i>Whether the proposed development or activity is likely to have an adverse effect on any declared area of outstanding biodiversity value (either directly or indirectly).</i>  <b>7 (1) (d) Conclusion</b>	No declared Areas of Outstanding Biodiversity Value occur within or near the Site.  <b>No Impact on any Outstanding Biodiversity Value Area</b>
7(1)(e)	<i>Whether the proposed development or activity is or is part of a key threatening process or is likely to increase the impact of a key threatening process.</i>  <b>7 (1) (e) Conclusion</b>	With ~ 0.033ha of disturbed remnant vegetation impacted, it is not anticipated that development as proposed is part of or is likely to contribute to any key threatening processes. The development has potential to contribute to the following key threatening process (KTP):  <b>No serious impacts on any KTPs</b>

**Summary: AEP considers that the Works would have no serious impacts on any entity under Part 5, Section 5.5 of the EP&A Act.**

### EPBC Act Assessment

A search was conducted in March 2025 for Matters of National Environmental Significance (MNES) as relevant to the EPBC Act. The following MNES are considered in this assessment.

#### World Heritage Properties:

The site is not a World Heritage area and is not in close proximity to any such area.

#### National Heritage Places:

The site is not a National Heritage Place and does not contain any matters of national heritage.

#### Wetlands of International Significance (declared Ramsar wetlands):

The Subject Site is not located within wetlands of International Significance. No impacts on the hydrology and ecology of the wetlands are expected as a result of the proposed development.

#### Great Barrier Reef Marine Park:

The site is not part of or within close proximity to the Great Barrier Reef Marine Park.

#### Commonwealth Marine Areas:

The site is not part of or within close proximity to any Commonwealth Marine Area.

#### Threatened Ecological Communities (TECs):

**Table 4** is showing the assessment to potential TECs onsite.

**Table 4 – Threatened Ecological Communities (TECs)**

TEC	Threatened Category	Potential for Occurrence	Comment
Coastal Swamp Oak (Casuarina glauca) Forest of New South Wales and South East Queensland ecological community	Endangered	Possible	Not present
Coastal Swamp Sclerophyll Forest of New South Wales and South East Queensland	Endangered	Likely	Not present
Subtropical eucalypt floodplain forest and woodland of the New South Wales North Coast and South East Queensland bioregions	Endangered	Likely	Not present

**EPBC Act Assessment Conclusion:**

Consideration of the EPBC Act revealed that it is unlikely that significant impacts on Matters of National Environmental Significance will occur as a result of the proposal. As such, a referral is not considered likely to be necessary.

**Port Stephens Council Comprehensive Koala Plan of Management**

Under State Environmental Planning Policy (Biodiversity and Conservation) 2021; Chapter 4 Koala Habitat Protection 2021, assessment under the *Port Stephens Council Comprehensive Koala Plan of Management* (2002) (the CKPoM) is required.

**CKPoM Performance Criteria for Development Applications**

The CKPoM contains performance criteria to assess development applications, an important means by which koala habitat can be protected and effectively managed. All development applications in the Port Stephens LGA will be required to comply with the provisions of the CKPoM to comply with State Environmental Planning Policy No. 44 – Koala Habitat Protection.

Examination of the Koala Habitat Planning Map (Port Stephens Council 2007) shows that part of the Site is mapped as Supplementary Koala Habitat (shown in **Figure 5**). Five Koala feed trees (**Appendix 8** of the CKPoM) would be impacted by the Proposal. As the largest of these trees is 0.4m DBH, and given the large amount of retained habitat to the west, it is not considered that the Proposal would pose serious impacts upon Koala or Koala habitat in the locality.

**Table 5** addresses the Koala criteria for Development Applications, containing the information required to accompany development applications on sites that contain Supplementary Koala Habitat.

**Table 5 – Performance Criteria for Development Applications (Appendix 4 CKPoM)**

Clause	Requirement	Assessment
1	<i>An assessment of koala habitat, by a suitably qualified person, in accordance with the attached Guidelines for Koala Habitat Assessment, which appear in Appendix 6.</i>	Many BioNet records in the last 20 year. AEP also confirmed scats from Koala within the Site in August 2021. Given the lack of preferred tree species but the presence of Important tree species within the Site along with sign of Koala usage it is considered that the Site is correctly mapped as supplementary habitat. Vegetation mapping within the site identified the Plant Community Type (PCT) present on the western boundary of the site as PCT 1626 - Smooth-barked Apple - Broad-leaved Mahogany - Red Bloodwood heathy low open forest on hills at Nelson Bay. Given that the proposed development would impact only five (5) Koala feed trees it is considered that the proposal would not lead to significant impacts on Koala.
2	<i>Clear details concerning which vegetation is to be cleared or disturbed and that which is to be retained.</i>	<0.033ha of native vegetation would be cleared, see <b>Plate 1</b> . Given that the proposed development would impact <0.033ha of vegetation, it is considered that the proposal would not lead to significant impacts on Koala.
3	<i>Details of any proposed building envelopes and fire fuel reduction zones and the means by which they are to be enforced.</i>	The Proposal was developed to satisfy bushfire management actions scheduled in the BTA.
4	<i>Proposed measures to restore or rehabilitate koala habitat, including measures</i>	With the small amount of habitat removed, no measures are considered necessary.



**AEP**

Clause	Requirement	Assessment
	<i>which will result in the net gain of koala habitat.</i>	
5	<i>Proposed measures to allow the safe movement of Koalas across the site including road designs and speed mediation measures, fence construction details where fencing is proposed, and swimming pool specifications.</i>	The Proposal is for small amounts of clearing on the edges of existing fire trails and tracks No changes in risk to koalas to what is currently present.
6	<i>Proposed measures to mitigate the impacts on koalas by dogs.</i>	The Proposal does not create any impacts on Koalas by dogs. As such no change in dog presence will occur as a result of this proposal.

## Habitat for Native Flora and Fauna

The areas impacted consist of edges of existing fire trails and APZ areas, hence minimal native fauna or habitat of value to native flora and fauna would be impacted. With approx. 0.033ha of disturbed remnant edge vegetation to be removed, it is considered unlikely any threatened species would be impacted by the Works. Tree 112, identified in the AIA, would provide potential habitat for arboreal fauna and should be retained and protected, as scheduled in the AIA and recommendations herein. The track has been designed to utilise existing tracks to limit impact on fauna habitat as much as possible. In addition, the Powerful Owl Tree is currently located adjacent to Fleet Street (**Figure 5**). Therefore, the potential increase in disturbance from the proposed track should be minimal.

AEP's opinion is that, given the implementation of the recommendations herein, impacts to biodiversity would be negligible as a result of the Proposal.

## State Environmental Planning Policy (Resilience and Hazards) 2021

Investigations in accordance with the *State Environmental Planning Policy (Resilience and Hazards) 2021* (R&H SEPP) found that the Site is not identified as Coastal wetlands, Coastal Environmental Area or Coastal Use Area and / or Coastal Vulnerability Areas. The Site, however, is mapped as Littoral Rainforest Proximity Area (see **Plate 1**).



**AEP**



**Plate 1 – Littoral rainforest mapping (April 2025)**

Assessment of the small amount of clearing (0.033ha) required, it is not considered the Proposal would impact any Littoral rainforest

## Recommendations

While impacts to biodiversity are expected to be negligible from the Works, AEP recommends the following measures be implemented to mitigate general ecological impacts from the Works:

- A Construction Environmental Management Plan (CEMP) to be developed to mitigate any impacts to adjacent downslope receptors and native biota. The CEMP should be informed by best-practice measures sourced from the “Blue Book” (Landcom, 2004);
- It is recommended the proposed swale is replaced with coir logs for erosion control to minimise impact to native vegetation;
- Tree Protection measures scheduled in the AIA should be installed, and inspected and approved by an AQF5 Arborist prior to construction. This includes Tree 112 which provides potential habitat for arboreal fauna and should be retained and protected as scheduled (see **Plate 2**);
- Any tree maintenance and pruning works should be carried out by a qualified arborist in accordance with AS4373 – 2007 Pruning of Amenity Trees and the Code of Practice Amenity Tree Industry (August 2007);
- Equipment should be cleaned thoroughly and disinfected before entering and exiting site to prevent weed and disease introduction such as Phytophthora cinnamomi (Root-rot fungus), Puccinia psidii (Myrtle Rust); and
- Retained trees schedule and retained trees requiring tree protection measures are shown in **Plate 2** below.



AEP

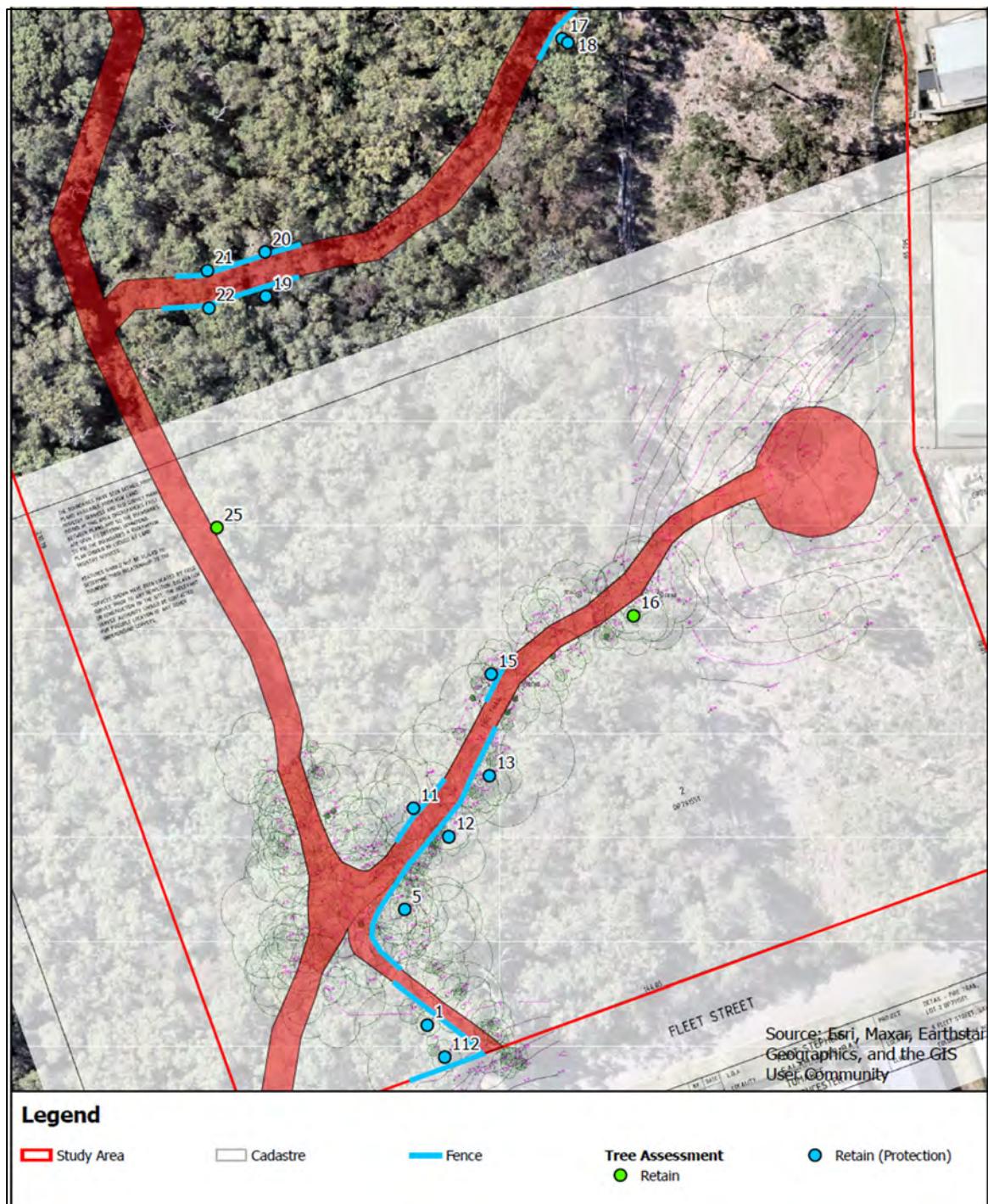


Plate 2 – Tree protection measures scheduled in AIA

## Certification & Licencing:

Report writer Dennis Neader, mapping by Joe Young and reviewed and certified by Natalie Black of Anderson Environment & Planning.

### Research was conducted under the following licences:

- NSW National Parks and Wildlife Service Scientific Investigation Licence SL101313;
- Animal Research Authority (Trim File No: 14/600(2)) issued by NSW Agriculture; and
- Animal Care and Ethics Committee Certificate of Approval (Trim File No: 14/600(2)) issued by NSW Agriculture.

### Certification:

As the principal author, I, Dennis Neader, make the following declaration:

- The results presented in the report are, in the opinion of the principal author and certifier, a true and accurate account of the species recorded, or considered likely to occur within the Survey Area;
- Commonwealth, State and Local Government policies and guidelines formed the basis of project surveying methodology, unless specified departures from industry standard guidelines are justified for scientific and/or animal ethics reasons; and
- All research workers have complied with relevant laws and codes relating to the conduct of flora and fauna research, including the Animal Research Act 1995, National Parks and Wildlife Act 1974 and the Australian Code of Practice for the Care and Use of Animals for Scientific Purposes.

Principal Certifier:



Dennis Neader

Senior Ecologist

Anderson Environment & Planning

20 May 2025

**Attachment A: Figures**

**Attachment B: Bionet Threatened Species Search Table**

**Attachment C: MNES Search**



## Attachment A: Figures



#### Legend

Study Area

Cadastre

#### Figure 1 - Site Map

0 80 160  
m  
Scale: 1:5,000



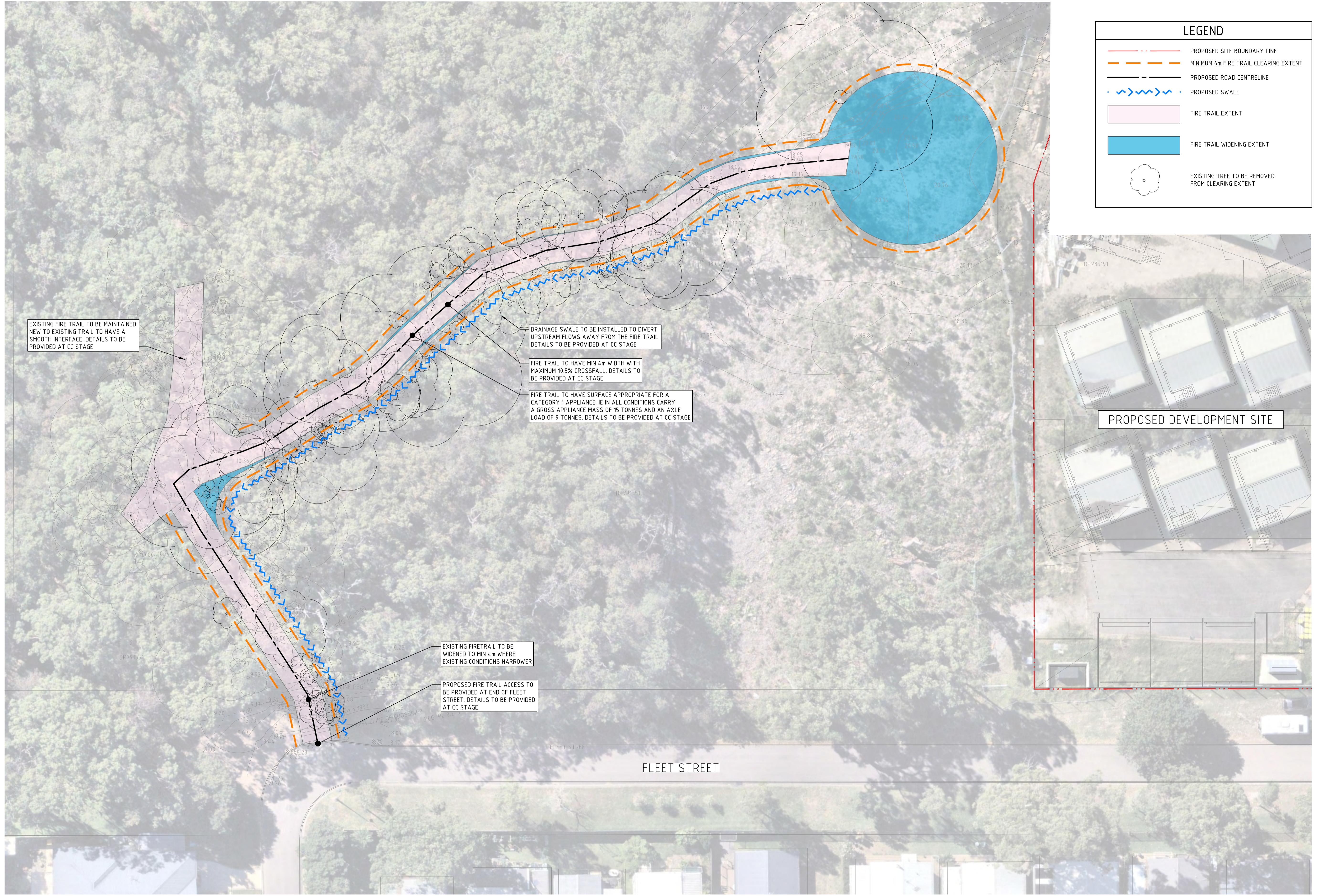
Address: 8 Fleet St, Salamander Bay NSW  
Client: Wanda Beach Estate Pty Ltd  
AEP Ref: 5075 | Date: 15 May 2025

Imagery: ESRI  
Spatial Reference: GDA2020 MGA Zone 56

Disclaimer: While reasonable care has been taken to ensure the information on this map is accurate and up-to-date, errors or omissions may still occur. Please verify the accuracy of all information before use. Note that boundaries are not survey accurate and do not scale off this plan.

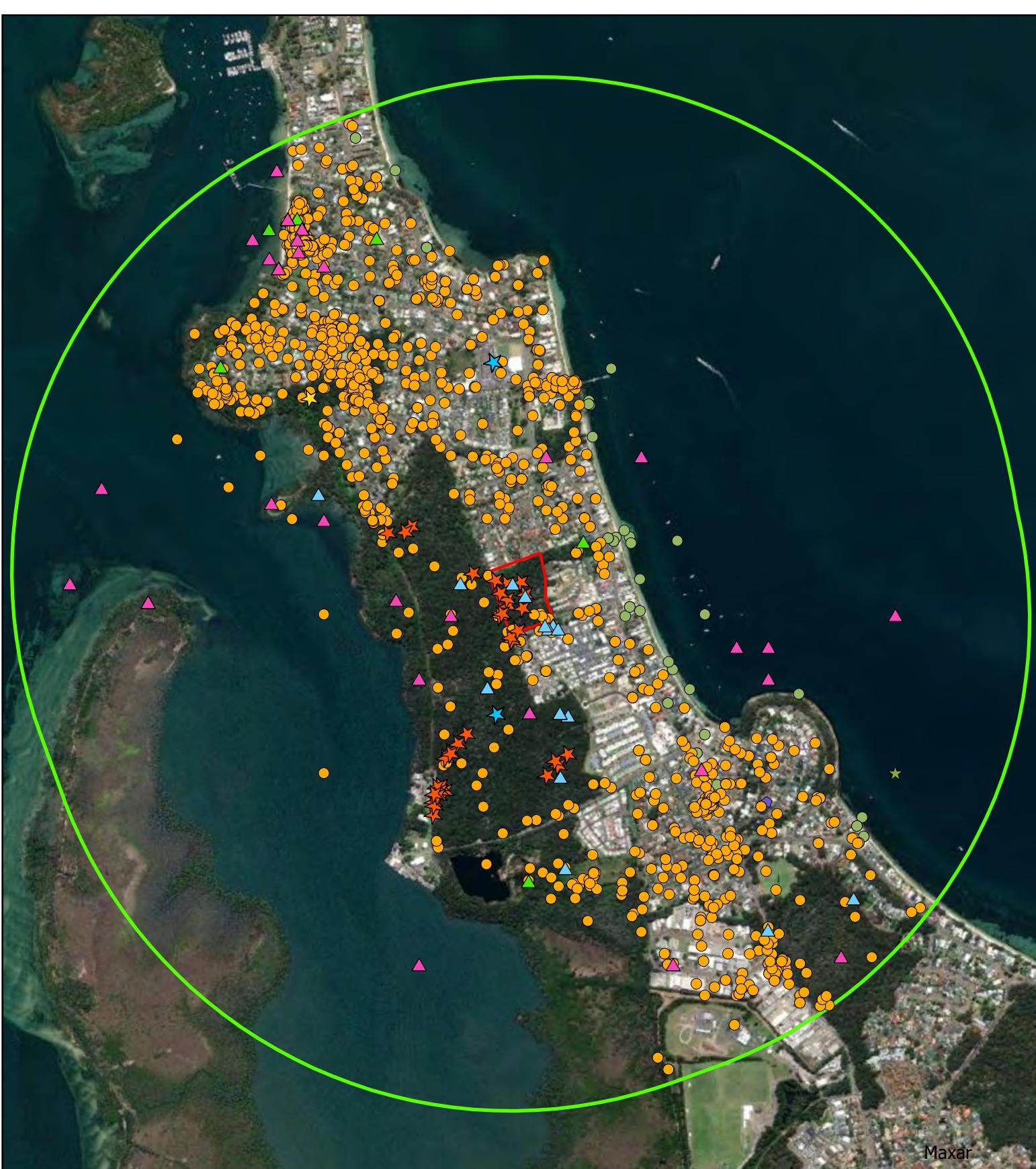


**AEP**



# NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT  <b>WANDA BEACH ESTATE PTY LTD</b>	ARCHITECT  <b>EJE</b> architecture	ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR, AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE.	PROJECT  <b>CIVIL ENGINEERING PACKAGE</b>  <b>FRETRAILPLAN</b>	JOB NUMBER
1	ISSUED FOR CLIENT REVIEW	JK	KS	22.04.25	DA-C04.11					<b>NL22140</b>
2	ISSUED FOR CLIENT REVIEW	JR	TVK	13.05.25		DRAWING NUMBER				
						REV/SION				
						<b>DA-C04.11</b>	<b>2</b>			
						DRAWING SHEET SIZE =	1			
						SCALE 1:250 @ A1	0 2.5 5 7.5 10 12.5m			
						THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD				
						Level 1, 215 Pacific Hwy, Charlestown NSW 2290 Ph (02) 4943 1777 Email <a href="mailto:newcastle@northrop.com.au">newcastle@northrop.com.au</a> ABN 81 094 43 10				
						Drawing not to be used for construction unless verification signature has been added				



### Legend

Study Area  
 1500m Assessment Buffer

#### Aves

- ▲ Eastern Osprey
- △ Powerful Owl
- ▲ White-bellied Sea-Eagle

#### Flora

- ★ Asperula asthenes
- ★ Callistemon linearifolius
- ★ Corybas dowlingii

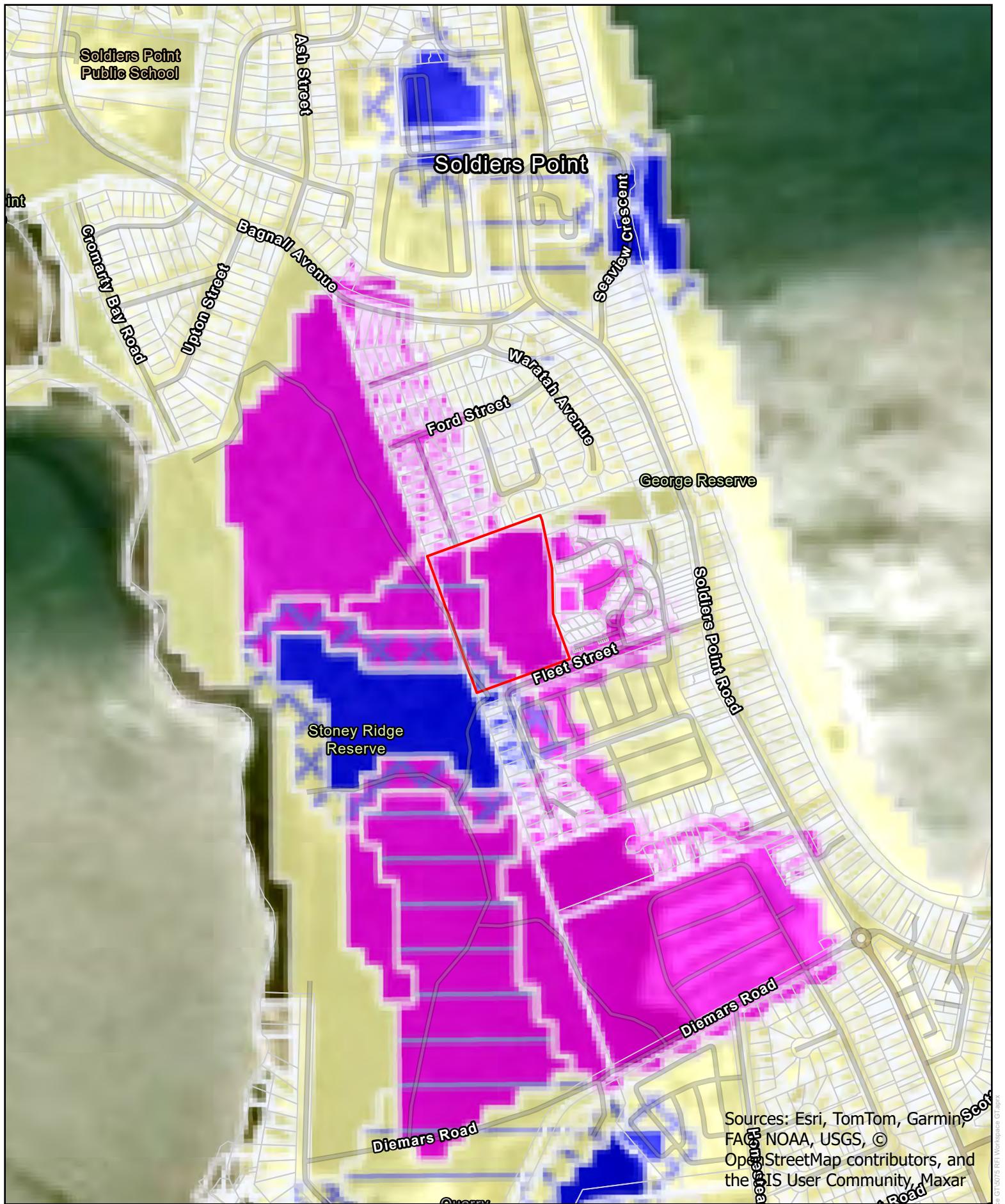
#### Mammalia

- Koala

### Figure 3 - BioNet Atlas Records



**AEP**



**Figure 4 - Koala Habitat**



### Legend

- Study Area
- Subject Site (0.15ha)
- Impacted Vegetation (0.033ha)
- Tree Remove
- Powerful Owl Tree (Retain)

### Figure 5 - Impacts

0 10 20  
m  
Scale: 1:1,000



**AEP**

**AEP****Attachment B – Threatened Species Search Bionet Atlas 31 March 2025****Highlight blue = Subject Species**

Scientific Name	Common Name	NSW status	Comm. status	Records
<i>Crinia tinnula</i>	Wallum Froglet	V		141
<i>Haliaeetus leucogaster</i>	White-bellied Sea-Eagle	V		32
<i>Lophoictinia isura</i>	Square-tailed Kite	V		1
<i>Pandion cristatus</i>	Eastern Osprey	V		11
<i>Calyptorhynchus lathami lathami</i>	South-eastern Glossy Black-Cockatoo	V	V	13
<i>Parvipsitta pusilla</i>	Little Lorikeet	V		20
<i>Ninox connivens</i>	Barking Owl	V		1
<i>Ninox strenua</i>	Powerful Owl	V		20
<i>Tyto novaehollandiae</i>	Masked Owl	V		8
<i>Daphoenositta chrysopera</i>	Varied Sittella	V		1
<i>Dasyurus maculatus</i>	Spotted-tailed Quoll	V	E	2
<i>Phascogale tapoatafa</i>	Brush-tailed Phascogale	V		2
<i>Phascolarctos cinereus</i>	Koala	E	E	4428
<i>Petaurus norfolcensis</i>	Squirrel Glider	V		23
<i>Pteropus poliocephalus</i>	Grey-headed Flying-fox	V	V	48
<i>Saccopteryx flaviventris</i>	Yellow-bellied Sheathtail-bat	V		3
<i>Micronomus norfolkensis</i>	Eastern Coastal Free-tailed Bat	V		24
<i>Falsistrellus tasmaniensis</i>	Eastern False Pipistrelle	V		13
<i>Myotis macropus</i>	Southern Myotis	V		13
<i>Scoteanax rueppellii</i>	Greater Broad-nosed Bat	V		14
<i>Vespadelus troughtoni</i>	Eastern Cave Bat	V		25
<i>Miniopterus australis</i>	Little Bent-winged Bat	V		39
<i>Miniopterus orianae oceanensis</i>	Large Bent-winged Bat	V		20
<i>Tetratheca juncea</i>	Black-eyed Susan	V	V	2742
<i>Angophora inopina</i>	Charmhaven Apple	V	V	741
<i>Callistemon linearifolius</i>	Netted Bottlebrush	V		33
<i>Eucalyptus parramattensis subsp. decadens</i>		V	V	2
<i>Melaleuca groveana</i>	Grove's Paperbark	V		171
<i>Syzygium paniculatum</i>	Magenta Lilly Pilly	V	V	11
<i>Corybas dowlingii</i>	Red Helmet Orchid	E		112
<i>Cryptostylis hunteriana</i>	Leafless Tongue Orchid	V	V	255
<i>Diuris arenaria</i>	Sand Doubletail	E		260
<i>Diuris praecox</i>	Rough Doubletail	V	V	6
<i>Persicaria elatior</i>	Tall Knotweed	V	V	61
<i>Grevillea parviflora subsp. parviflora</i>	Small-flower Grevillea	V	V	332
<i>Asperula asthenes</i>	Trailing Woodruff	V	V	1



**Attachment C: MNES Search 31 March 2025**



# EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected. Please see the caveat for interpretation of information provided here.

Report created: 31-Mar-2025

[Summary](#)

[Details](#)

[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)

# Summary

## Matters of National Environment Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the [Administrative Guidelines on Significance](#).

<a href="#">World Heritage Properties:</a>	None
<a href="#">National Heritage Places:</a>	None
<a href="#">Wetlands of International Importance (Ramsar</a>	1
<a href="#">Great Barrier Reef Marine Park:</a>	None
<a href="#">Commonwealth Marine Area:</a>	None
<a href="#">Listed Threatened Ecological Communities:</a>	4
<a href="#">Listed Threatened Species:</a>	91
<a href="#">Listed Migratory Species:</a>	67

## Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at <https://www.dcceew.gov.au/parks-heritage/heritage>

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

<a href="#">Commonwealth Lands:</a>	None
<a href="#">Commonwealth Heritage Places:</a>	None
<a href="#">Listed Marine Species:</a>	95
<a href="#">Whales and Other Cetaceans:</a>	12
<a href="#">Critical Habitats:</a>	None
<a href="#">Commonwealth Reserves Terrestrial:</a>	None
<a href="#">Australian Marine Parks:</a>	None
<a href="#">Habitat Critical to the Survival of Marine Turtles:</a>	None

## Extra Information

This part of the report provides information that may also be relevant to the area you have

<a href="#">State and Territory Reserves:</a>	1
<a href="#">Regional Forest Agreements:</a>	1
<a href="#">Nationally Important Wetlands:</a>	1
<a href="#">EPBC Act Referrals:</a>	4
<a href="#">Key Ecological Features (Marine):</a>	None
<a href="#">Biologically Important Areas:</a>	5
<a href="#">Bioregional Assessments:</a>	None
<a href="#">Geological and Bioregional Assessments:</a>	None

# Details

## Matters of National Environmental Significance

Wetlands of International Importance (Ramsar Wetlands)		[ Resource Information ]
Ramsar Site Name <a href="#">Myall lakes</a>	Proximity Within 10km of Ramsar site	

Listed Threatened Ecological Communities	[ Resource Information ]
--	--------------------------

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Status of Vulnerable, Disallowed and Ineligible are not MNES under the EPBC Act.

Community Name	Threatened Category	Presence Text
<a href="#">Coastal Swamp Oak (<i>Casuarina glauca</i>)</a>	Endangered	Community may occur within area
<a href="#">Forest of New South Wales and South East Queensland ecological community</a>		
<a href="#">Coastal Swamp Sclerophyll Forest of New South Wales and South East Queensland</a>	Endangered	Community likely to occur within area
<a href="#">Posidonia australis seagrass meadows of the Manning-Hawkesbury ecoregion</a>	Endangered	Community likely to occur within area
<a href="#">Subtropical eucalypt floodplain forest and woodland of the New South Wales North Coast and South East Queensland bioregions</a>	Endangered	Community likely to occur within area

Listed Threatened Species	[ Resource Information ]
---------------------------	--------------------------

Status of Conservation Dependent and Extinct are not MNES under the EPBC Act.

Number is the current name ID.

Scientific Name	Threatened Category	Presence Text
BIRD		
<a href="#">Anthochaera phrygia</a>		
Regent Honeyeater [82338]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#">Ardenna grisea</a>		
Sooty Shearwater [82651]	Vulnerable	Species or species habitat likely to occur within area

Scientific Name	Threatened Category	Presence Text
<a href="#"><u>Arenaria interpres</u></a> Ruddy Turnstone [872]	Vulnerable	Species or species habitat known to occur within area
<a href="#"><u>Botaurus poiciloptilus</u></a> Australasian Bittern [1001]	Endangered	Species or species habitat likely to occur within area
<a href="#"><u>Calidris acuminata</u></a> Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat known to occur within area
<a href="#"><u>Calidris canutus</u></a> Red Knot, Knot [855]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u>Calidris ferruginea</u></a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
<a href="#"><u>Calidris tenuirostris</u></a> Great Knot [862]	Vulnerable	Species or species habitat known to occur within area
<a href="#"><u>Callocephalon fimbriatum</u></a> Gang-gang Cockatoo [768]	Endangered	Species or species habitat likely to occur within area
<a href="#"><u>Calyptorhynchus lathami lathami</u></a> South-eastern Glossy Black-Cockatoo [67036]	Vulnerable	Species or species habitat known to occur within area
<a href="#"><u>Charadrius leschenaultii</u></a> Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u>Charadrius mongolus</u></a> Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat known to occur within area
<a href="#"><u>Climacteris picumnus victoriae</u></a> Brown Treecreeper (south-eastern) [67062]	Vulnerable	Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
<a href="#"><u>Diomedea antipodensis</u></a> Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Diomedea antipodensis gibsoni</u></a> Gibson's Albatross [82270]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Diomedea epomophora</u></a> Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Diomedea exulans</u></a> Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Diomedea sanfordi</u></a> Northern Royal Albatross [64456]	Endangered	Species or species habitat may occur within area
<a href="#"><u>Erythrocercus radiatus</u></a> Red Goshawk [942]	Endangered	Species or species habitat may occur within area
<a href="#"><u>Falco hypoleucus</u></a> Grey Falcon [929]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Fregetta grallaria grallaria</u></a> White-bellied Storm-Petrel (Tasman Sea), White-bellied Storm-Petrel (Australasian) [64438]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u>Gallinago hardwickii</u></a> Latham's Snipe, Japanese Snipe [863]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u>Grantiella picta</u></a> Painted Honeyeater [470]	Vulnerable	Species or species habitat likely to occur within area

Scientific Name	Threatened Category	Presence Text
<a href="#"><i>Hirundapus caudacutus</i></a> White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area
<a href="#"><i>Lathamus discolor</i></a> Swift Parrot [744]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#"><i>Limosa lapponica baueri</i></a> Nunivak Bar-tailed Godwit, Western Alaskan Bar-tailed Godwit [86380]	Endangered	Species or species habitat known to occur within area
<a href="#"><i>Limosa limosa</i></a> Black-tailed Godwit [845]	Endangered	Species or species habitat known to occur within area
<a href="#"><i>Macronectes giganteus</i></a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
<a href="#"><i>Macronectes halli</i></a> Northern Giant Petrel [1061]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><i>Melanodryas cucullata cucullata</i></a> South-eastern Hooded Robin, Hooded Robin (south-eastern) [67093]	Endangered	Species or species habitat may occur within area
<a href="#"><i>Neophema chrysostoma</i></a> Blue-winged Parrot [726]	Vulnerable	Species or species habitat may occur within area
<a href="#"><i>Numenius madagascariensis</i></a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
<a href="#"><i>Pachyptila turtur subantarctica</i></a> Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><i>Pluvialis squatarola</i></a> Grey Plover [865]	Vulnerable	Species or species habitat known to occur within area

Scientific Name	Threatened Category	Presence Text
<a href="#"><u>Pterodroma leucoptera leucoptera</u></a> Gould's Petrel, Australian Gould's Petrel [26033]	Endangered	Species or species habitat may occur within area
<a href="#"><u>Pterodroma neglecta neglecta</u></a> Kermadec Petrel (western) [64450]	Vulnerable	Foraging, feeding or related behaviour may occur within area
<a href="#"><u>Pycnoptilus floccosus</u></a> Pilotbird [525]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Rostratula australis</u></a> Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
<a href="#"><u>Stagonopleura guttata</u></a> Diamond Firetail [59398]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u>Sternula albifrons</u></a> Little Tern [82849]	Vulnerable	Breeding likely to occur within area
<a href="#"><u>Sternula nereis nereis</u></a> Australian Fairy Tern [82950]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Thalassarche bulleri</u></a> Buller's Albatross, Pacific Albatross [64460]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Thalassarche bulleri platei</u></a> Northern Buller's Albatross, Pacific Albatross [82273]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Thalassarche carteri</u></a> Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u>Thalassarche cauta</u></a> Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area

Scientific Name	Threatened Category	Presence Text
<a href="#"><u><i>Thalassarche eremita</i></u></a> Chatham Albatross [64457]	Endangered	Foraging, feeding or related behaviour may occur within area
<a href="#"><u><i>Thalassarche impavida</i></u></a> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u><i>Thalassarche melanophris</i></u></a> Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u><i>Thalassarche salvini</i></u></a> Salvin's Albatross [64463]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u><i>Thalassarche steadi</i></u></a> White-capped Albatross [64462]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u><i>Tringa nebularia</i></u></a> Common Greenshank, Greenshank [832]	Endangered	Species or species habitat known to occur within area
<a href="#"><u><i>Xenus cinereus</i></u></a> Terek Sandpiper [59300]	Vulnerable	Species or species habitat known to occur within area
<b>FISH</b>		
<a href="#"><u><i>Epinephelus daemelii</i></u></a> Black Rockcod, Black Cod, Saddled Rockcod [68449]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u><i>Hippocampus whitei</i></u></a> White's Seahorse, Crowned Seahorse, Sydney Seahorse [66240]	Endangered	Species or species habitat likely to occur within area
<a href="#"><u><i>Seriola brama</i></u></a> Blue Warehou [69374]	Conservation Dependent	Species or species habitat known to occur within area
<b>FROG</b>		

Scientific Name	Threatened Category	Presence Text
<a href="#"><u>Litoria aurea</u></a> Green and Golden Bell Frog [1870]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u>Uperoleia mahonyi</u></a> Mahony's Toadlet [89189]	Endangered	Species or species habitat likely to occur within area
<b>MAMMAL</b>		
<a href="#"><u>Balaenoptera musculus</u></a> Blue Whale [36]	Endangered	Species or species habitat may occur within area
<a href="#"><u>Chalinolobus dwyeri</u></a> Large-eared Pied Bat, Large Pied Bat [183]	Endangered	Species or species habitat may occur within area
<a href="#"><u>Dasyurus maculatus maculatus (SE mainland population)</u></a> Spot-tailed Quoll, Spotted-tail Quoll, Tiger Quoll (southeastern mainland population) [75184]	Endangered	Species or species habitat likely to occur within area
<a href="#"><u>Eubalaena australis</u></a> Southern Right Whale [40]	Endangered	Species or species habitat likely to occur within area
<a href="#"><u>Notamacropus parma</u></a> Parma Wallaby [89289]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Petauroides volans</u></a> Greater Glider (southern and central) [254]	Endangered	Species or species habitat likely to occur within area
<a href="#"><u>Petaurus australis australis</u></a> Yellow-bellied Glider (south-eastern) [87600]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u>Phascolarctos cinereus (combined populations of Qld, NSW and the ACT)</u></a> Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104]	Endangered	Species or species habitat known to occur within area
<a href="#"><u>Potorous tridactylus tridactylus</u></a> Long-nosed Potoroo (northern) [66645]	Vulnerable	Species or species habitat likely to occur within area

Scientific Name	Threatened Category	Presence Text
<a href="#"><u><i>Pseudomys novaehollandiae</i></u></a> New Holland Mouse, Pookila [96]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u><i>Pteropus poliocephalus</i></u></a> Grey-headed Flying-fox [186]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<b>PLANT</b>		
<a href="#"><u><i>Angophora inopina</i></u></a> Charmhaven Apple [64832]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u><i>Asperula asthenes</i></u></a> Trailing Woodruff [14004]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u><i>Cryptostylis hunteriana</i></u></a> Leafless Tongue-orchid [19533]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u><i>Diuris praecox</i></u></a> Newcastle Doubletail [55086]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u><i>Eucalyptus parramattensis</i> subsp. <i>decadens</i></u></a> Earp's Gum, Earp's Dirty Gum [56148]	Vulnerable	Species or species habitat known to occur within area
<a href="#"><u><i>Euphrasia arguta</i></u></a> [4325]	Critically Endangered	Species or species habitat may occur within area
<a href="#"><u><i>Persicaria elatior</i></u></a> Knotweed, Tall Knotweed [5831]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u><i>Prostanthera densa</i></u></a> Villous Mintbush [12233]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u><i>Rhizanthella slateri</i></u></a> Eastern Underground Orchid [11768]	Endangered	Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
<a href="#"><u><i>Rhodamnia rubescens</i></u></a> Scrub Turpentine, Brown Malletwood [15763]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#"><u><i>Rhodomyrtus psidioides</i></u></a> Native Guava [19162]	Critically Endangered	Species or species habitat may occur within area
<a href="#"><u><i>Syzygium paniculatum</i></u></a> Magenta Lilly Pilly, Magenta Cherry, Daguba, Scrub Cherry, Creek Lilly Pilly, Brush Cherry [20307]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u><i>Tetrapetra juncea</i></u></a> Black-eyed Susan [21407]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u><i>Thesium australe</i></u></a> Austral Toadflax, Toadflax [15202]	Vulnerable	Species or species habitat may occur within area
<b>REPTILE</b>		
<a href="#"><u><i>Caretta caretta</i></u></a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
<a href="#"><u><i>Chelonia mydas</i></u></a> Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#"><u><i>Dermochelys coriacea</i></u></a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat likely to occur within area
<a href="#"><u><i>Eretmochelys imbricata</i></u></a> Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area
<a href="#"><u><i>Natator depressus</i></u></a> Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<b>SHARK</b>		

Scientific Name	Threatened Category	Presence Text
<a href="#"><u>Carcharias taurus (east coast population)</u></a>		
Grey Nurse Shark (east coast population) [68751]	Critically Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Carcharodon carcharias</u></a>		
White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area
<a href="#"><u>Rhincodon typus</u></a>		
Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Sphyrna lewini</u></a>		
Scalloped Hammerhead [85267]	Conservation Dependent	Species or species habitat likely to occur within area

Listed Migratory Species		[ Resource Information ]
Scientific Name	Threatened Category	Presence Text
Migratory Marine Birds		
<a href="#"><u>Anous stolidus</u></a>		
Common Noddy [825]		Species or species habitat likely to occur within area
<a href="#"><u>Apus pacificus</u></a>		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<a href="#"><u>Ardenna carneipes</u></a>		
Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Ardenna grisea</u></a>		
Sooty Shearwater [82651]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u>Calonectris leucomelas</u></a>		
Streaked Shearwater [1077]		Species or species habitat known to occur within area
<a href="#"><u>Diomedea antipodensis</u></a>		
Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area

Scientific Name	Threatened Category	Presence Text
<a href="#"><u>Diomedea epomophora</u></a> Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Diomedea exulans</u></a> Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Diomedea sanfordi</u></a> Northern Royal Albatross [64456]	Endangered	Species or species habitat may occur within area
<a href="#"><u>Fregata ariel</u></a> Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
<a href="#"><u>Fregata minor</u></a> Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat likely to occur within area
<a href="#"><u>Macronectes giganteus</u></a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
<a href="#"><u>Macronectes halli</u></a> Northern Giant Petrel [1061]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Phaethon lepturus</u></a> White-tailed Tropicbird [1014]		Species or species habitat may occur within area
<a href="#"><u>Sternula albifrons</u></a> Little Tern [82849]	Vulnerable	Breeding likely to occur within area
<a href="#"><u>Thalassarche bulleri</u></a> Buller's Albatross, Pacific Albatross [64460]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Thalassarche carteri</u></a> Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat likely to occur within area

Scientific Name	Threatened Category	Presence Text
<a href="#"><u><i>Thalassarche cauta</i></u></a> Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u><i>Thalassarche eremita</i></u></a> Chatham Albatross [64457]	Endangered	Foraging, feeding or related behaviour may occur within area
<a href="#"><u><i>Thalassarche impavida</i></u></a> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u><i>Thalassarche melanophris</i></u></a> Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u><i>Thalassarche salvini</i></u></a> Salvin's Albatross [64463]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u><i>Thalassarche steadi</i></u></a> White-capped Albatross [64462]	Vulnerable	Species or species habitat may occur within area
<b>Migratory Marine Species</b>		
<a href="#"><u><i>Balaenoptera edeni</i></u></a> Bryde's Whale [35]		Species or species habitat may occur within area
<a href="#"><u><i>Balaenoptera musculus</i></u></a> Blue Whale [36]	Endangered	Species or species habitat may occur within area
<a href="#"><u><i>Caperea marginata</i></u></a> Pygmy Right Whale [39]		Foraging, feeding or related behaviour may occur within area
<a href="#"><u><i>Carcharhinus longimanus</i></u></a> Oceanic Whitetip Shark [84108]		Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
<a href="#"><u>Carcharias taurus</u></a> Grey Nurse Shark [64469]		Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Carcharodon carcharias</u></a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area
<a href="#"><u>Caretta caretta</u></a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
<a href="#"><u>Chelonia mydas</u></a> Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#"><u>Dermochelys coriacea</u></a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat likely to occur within area
<a href="#"><u>Dugong dugon</u></a> Dugong [28]		Species or species habitat may occur within area
<a href="#"><u>Eretmochelys imbricata</u></a> Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area
<a href="#"><u>Eubalaena australis</u> as <u>Balaena glacialis australis</u></a> Southern Right Whale [40]	Endangered	Species or species habitat likely to occur within area
<a href="#"><u>Lamna nasus</u></a> Porbeagle, Mackerel Shark [83288]		Species or species habitat may occur within area
<a href="#"><u>Megaptera novaeangliae</u></a> Humpback Whale [38]		Species or species habitat known to occur within area
<a href="#"><u>Mobula alfredi</u> as <u>Manta alfredi</u></a> Reef Manta Ray, Coastal Manta Ray [90033]		Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
<a href="#"><u><i>Mobula birostris</i> as <i>Manta birostris</i></u></a> Giant Manta Ray [90034]		Species or species habitat may occur within area
<a href="#"><u><i>Natator depressus</i></u></a> Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#"><u><i>Orcinus orca</i></u></a> Killer Whale, Orca [46]		Species or species habitat may occur within area
<a href="#"><u><i>Rhincodon typus</i></u></a> Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
<b>Migratory Terrestrial Species</b>		
<a href="#"><u><i>Cuculus optatus</i></u></a> Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat may occur within area
<a href="#"><u><i>Hirundapus caudacutus</i></u></a> White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area
<b>Migratory Wetlands Species</b>		
<a href="#"><u><i>Actitis hypoleucus</i></u></a> Common Sandpiper [59309]		Species or species habitat likely to occur within area
<a href="#"><u><i>Arenaria interpres</i></u></a> Ruddy Turnstone [872]	Vulnerable	Species or species habitat known to occur within area
<a href="#"><u><i>Calidris acuminata</i></u></a> Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat known to occur within area
<a href="#"><u><i>Calidris canutus</i></u></a> Red Knot, Knot [855]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u><i>Calidris ferruginea</i></u></a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area

Scientific Name	Threatened Category	Presence Text
<a href="#"><u>Calidris melanotos</u></a>		
Pectoral Sandpiper [858]		Species or species habitat may occur within area
<a href="#"><u>Calidris ruficollis</u></a>		
Red-necked Stint [860]		Species or species habitat known to occur within area
<a href="#"><u>Calidris tenuirostris</u></a>		
Great Knot [862]	Vulnerable	Species or species habitat known to occur within area
<a href="#"><u>Charadrius bicinctus</u></a>		
Double-banded Plover [895]		Species or species habitat known to occur within area
<a href="#"><u>Charadrius leschenaultii</u></a>		
Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u>Charadrius mongolus</u></a>		
Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat known to occur within area
<a href="#"><u>Gallinago hardwickii</u></a>		
Latham's Snipe, Japanese Snipe [863]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u>Limosa lapponica</u></a>		
Bar-tailed Godwit [844]		Species or species habitat known to occur within area
<a href="#"><u>Limosa limosa</u></a>		
Black-tailed Godwit [845]	Endangered	Species or species habitat known to occur within area
<a href="#"><u>Numenius madagascariensis</u></a>		
Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
<a href="#"><u>Numenius phaeopus</u></a>		
Whimbrel [849]		Species or species habitat known to occur within area

Scientific Name	Threatened Category	Presence Text
<a href="#"><u>Pandion haliaetus</u></a>		
Osprey [952]		Species or species habitat known to occur within area
<a href="#"><u>Pluvialis fulva</u></a>		
Pacific Golden Plover [25545]		Species or species habitat known to occur within area
<a href="#"><u>Pluvialis squatarola</u></a>		
Grey Plover [865]	Vulnerable	Species or species habitat known to occur within area
<a href="#"><u>Tringa brevipes</u></a>		
Grey-tailed Tattler [851]		Species or species habitat known to occur within area
<a href="#"><u>Tringa nebularia</u></a>		
Common Greenshank, Greenshank [832]	Endangered	Species or species habitat known to occur within area
<a href="#"><u>Tringa stagnatilis</u></a>		
Marsh Sandpiper, Little Greenshank [833]		Species or species habitat known to occur within area
<a href="#"><u>Xenus cinereus</u></a>		
Terek Sandpiper [59300]	Vulnerable	Species or species habitat known to occur within area

## Other Matters Protected by the EPBC Act

Listed Marine Species		[ Resource Information ]
Scientific Name	Threatened Category	Presence Text
Bird		
<a href="#"><u>Actitis hypoleucus</u></a>		
Common Sandpiper [59309]		Species or species habitat likely to occur within area
<a href="#"><u>Anous stolidus</u></a>		
Common Noddy [825]		Species or species habitat likely to occur within area

Scientific Name	Threatened Category	Presence Text
<u><a href="#">Apus pacificus</a></u> Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area
<u><a href="#">Ardenna carneipes</a></u> as <u><a href="#">Puffinus carneipes</a></u> Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Foraging, feeding or related behaviour likely to occur within area
<u><a href="#">Ardenna grisea</a></u> as <u><a href="#">Puffinus griseus</a></u> Sooty Shearwater [82651]	Vulnerable	Species or species habitat likely to occur within area
<u><a href="#">Arenaria interpres</a></u> Ruddy Turnstone [872]	Vulnerable	Species or species habitat known to occur within area
<u><a href="#">Bubulcus ibis</a></u> as <u><a href="#">Ardea ibis</a></u> Cattle Egret [66521]		Species or species habitat may occur within area overfly marine area
<u><a href="#">Calidris acuminata</a></u> Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat known to occur within area
<u><a href="#">Calidris canutus</a></u> Red Knot, Knot [855]	Vulnerable	Species or species habitat likely to occur within area overfly marine area
<u><a href="#">Calidris ferruginea</a></u> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area overfly marine area
<u><a href="#">Calidris melanotos</a></u> Pectoral Sandpiper [858]		Species or species habitat may occur within area overfly marine area
<u><a href="#">Calidris ruficollis</a></u> Red-necked Stint [860]		Species or species habitat known to occur within area overfly marine area

Scientific Name	Threatened Category	Presence Text
<a href="#"><u>Calidris tenuirostris</u></a> Great Knot [862]	Vulnerable	Species or species habitat known to occur within area overfly marine area
<a href="#"><u>Calonectris leucomelas</u></a> Streaked Shearwater [1077]		Species or species habitat known to occur within area
<a href="#"><u>Charadrius bicinctus</u></a> Double-banded Plover [895]		Species or species habitat known to occur within area overfly marine area
<a href="#"><u>Charadrius leschenaultii</u></a> Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u>Charadrius mongolus</u></a> Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat known to occur within area
<a href="#"><u>Charadrius ruficapillus</u></a> Red-capped Plover [881]		Species or species habitat known to occur within area overfly marine area
<a href="#"><u>Diomedea antipodensis</u></a> Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Diomedea antipodensis gibsoni</u> as <u>Diomedea gibsoni</u> Gibson's Albatross [82270]</a>	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Diomedea epomophora</u></a> Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Diomedea exulans</u></a> Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area

Scientific Name	Threatened Category	Presence Text
<a href="#"><u>Diomedea sanfordi</u></a> Northern Royal Albatross [64456]	Endangered	Species or species habitat may occur within area
<a href="#"><u>Fregata ariel</u></a> Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
<a href="#"><u>Fregata minor</u></a> Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat likely to occur within area
<a href="#"><u>Gallinago hardwickii</u></a> Latham's Snipe, Japanese Snipe [863]	Vulnerable	Species or species habitat likely to occur within area overfly marine area
<a href="#"><u>Haliaeetus leucogaster</u></a> White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
<a href="#"><u>Himantopus himantopus</u></a> Pied Stilt, Black-winged Stilt [870]		Species or species habitat known to occur within area overfly marine area
<a href="#"><u>Hirundapus caudacutus</u></a> White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area overfly marine area
<a href="#"><u>Lathamus discolor</u></a> Swift Parrot [744]	Critically Endangered	Species or species habitat likely to occur within area overfly marine area
<a href="#"><u>Limosa lapponica</u></a> Bar-tailed Godwit [844]		Species or species habitat known to occur within area
<a href="#"><u>Limosa limosa</u></a> Black-tailed Godwit [845]	Endangered	Species or species habitat known to occur within area overfly marine area

Scientific Name	Threatened Category	Presence Text
<a href="#"><u><i>Macronectes giganteus</i></u></a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
<a href="#"><u><i>Macronectes halli</i></u></a> Northern Giant Petrel [1061]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u><i>Merops ornatus</i></u></a> Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area
<a href="#"><u><i>Monarcha melanopsis</i></u></a> Black-faced Monarch [609]		Species or species habitat likely to occur within area overfly marine area
<a href="#"><u><i>Myiagra cyanoleuca</i></u></a> Satin Flycatcher [612]		Species or species habitat known to occur within area overfly marine area
<a href="#"><u><i>Neophema chrysostoma</i></u></a> Blue-winged Parrot [726]	Vulnerable	Species or species habitat may occur within area overfly marine area
<a href="#"><u><i>Numenius madagascariensis</i></u></a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
<a href="#"><u><i>Numenius phaeopus</i></u></a> Whimbrel [849]		Species or species habitat known to occur within area
<a href="#"><u><i>Pachyptila turtur</i></u></a> Fairy Prion [1066]		Species or species habitat likely to occur within area
<a href="#"><u><i>Pandion haliaetus</i></u></a> Osprey [952]		Species or species habitat known to occur within area

Scientific Name	Threatened Category	Presence Text
<a href="#"><u><i>Phaethon lepturus</i></u></a> White-tailed Tropicbird [1014]		Species or species habitat may occur within area
<a href="#"><u><i>Pluvialis fulva</i></u></a> Pacific Golden Plover [25545]		Species or species habitat known to occur within area
<a href="#"><u><i>Pluvialis squatarola</i></u></a> Grey Plover [865]	Vulnerable	Species or species habitat known to occur within area overfly marine area
<a href="#"><u><i>Pterodroma cervicalis</i></u></a> White-necked Petrel [59642]		Species or species habitat may occur within area
<a href="#"><u><i>Recurvirostra novaehollandiae</i></u></a> Red-necked Avocet [871]		Species or species habitat known to occur within area overfly marine area
<a href="#"><u><i>Rhipidura rufifrons</i></u></a> Rufous Fantail [592]		Species or species habitat likely to occur within area overfly marine area
<a href="#"><u><i>Rostratula australis</i> as <i>Rostratula benghalensis</i> (sensu lato)</u></a> Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area overfly marine area
<a href="#"><u><i>Sterna striata</i></u></a> White-fronted Tern [799]		Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u><i>Sternula albifrons</i> as <i>Sterna albifrons</i></u></a> Little Tern [82849]	Vulnerable	Breeding likely to occur within area
<a href="#"><u><i>Sympisiachrus trivirgatus</i> as <i>Monarcha trivirgatus</i></u></a> Spectacled Monarch [83946]		Species or species habitat known to occur within area overfly marine area

Scientific Name	Threatened Category	Presence Text
<a href="#"><u><i>Thalassarche bulleri</i></u></a> Buller's Albatross, Pacific Albatross [64460]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u><i>Thalassarche bulleri platei</i> as <i>Thalassarche sp. nov.</i></u></a> Northern Buller's Albatross, Pacific Albatross [82273]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u><i>Thalassarche carteri</i></u></a> Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u><i>Thalassarche cauta</i></u></a> Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u><i>Thalassarche eremita</i></u></a> Chatham Albatross [64457]	Endangered	Foraging, feeding or related behaviour may occur within area
<a href="#"><u><i>Thalassarche impavida</i></u></a> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u><i>Thalassarche melanophris</i></u></a> Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u><i>Thalassarche salvini</i></u></a> Salvin's Albatross [64463]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u><i>Thalassarche steadi</i></u></a> White-capped Albatross [64462]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u><i>Tringa brevipes</i> as <i>Heteroscelus brevipes</i></u></a> Grey-tailed Tattler [851]		Species or species habitat known to occur within area

Scientific Name	Threatened Category	Presence Text
<a href="#"><u><i>Tringa nebularia</i></u></a> Common Greenshank, Greenshank [832]	Endangered	Species or species habitat known to occur within area overfly marine area
<a href="#"><u><i>Tringa stagnatilis</i></u></a> Marsh Sandpiper, Little Greenshank [833]		Species or species habitat known to occur within area overfly marine area
<a href="#"><u><i>Xenus cinereus</i></u></a> Terek Sandpiper [59300]	Vulnerable	Species or species habitat known to occur within area overfly marine area
<b>Fish</b>		
<a href="#"><u><i>Acentronura tentaculata</i></u></a> Shortpouch Pygmy Pipehorse [66187]		Species or species habitat may occur within area
<a href="#"><u><i>Festucalex cinctus</i></u></a> Girdled Pipefish [66214]		Species or species habitat may occur within area
<a href="#"><u><i>Filicampus tigris</i></u></a> Tiger Pipefish [66217]		Species or species habitat may occur within area
<a href="#"><u><i>Heraldia nocturna</i></u></a> Upside-down Pipefish, Eastern Upside-down Pipefish, Eastern Upside-down Pipefish [66227]		Species or species habitat may occur within area
<a href="#"><u><i>Hippichthys penicillatus</i></u></a> Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area
<a href="#"><u><i>Hippocampus abdominalis</i></u></a> Big-belly Seahorse, Eastern Potbelly Seahorse, New Zealand Potbelly Seahorse [66233]		Species or species habitat may occur within area
<a href="#"><u><i>Hippocampus whitei</i></u></a> White's Seahorse, Crowned Seahorse, Sydney Seahorse [66240]	Endangered	Species or species habitat likely to occur within area

Scientific Name	Threatened Category	Presence Text
<u><a href="#">Histiogamphelus briggsii</a></u> Crested Pipefish, Briggs' Crested Pipefish, Briggs' Pipefish [66242]		Species or species habitat may occur within area
<u><a href="#">Lissocampus runa</a></u> Javelin Pipefish [66251]		Species or species habitat may occur within area
<u><a href="#">Maroubra perserrata</a></u> Sawtooth Pipefish [66252]		Species or species habitat may occur within area
<u><a href="#">Notiocampus ruber</a></u> Red Pipefish [66265]		Species or species habitat may occur within area
<u><a href="#">Phyllopteryx taeniolatus</a></u> Common Seadragon, Weedy Seadragon [66268]		Species or species habitat may occur within area
<u><a href="#">Solegnathus spinosissimus</a></u> Spiny Pipehorse, Australian Spiny Pipehorse [66275]		Species or species habitat may occur within area
<u><a href="#">Solenostomus cyanopterus</a></u> Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]		Species or species habitat may occur within area
<u><a href="#">Solenostomus paradoxus</a></u> Ornate Ghostpipefish, Harlequin Ghost Pipefish, Ornate Ghost Pipefish [66184]		Species or species habitat may occur within area
<u><a href="#">Stigmatopora argus</a></u> Spotted Pipefish, Gulf Pipefish, Peacock Pipefish [66276]		Species or species habitat may occur within area
<u><a href="#">Stigmatopora nigra</a></u> Widebody Pipefish, Wide-bodied Pipefish, Black Pipefish [66277]		Species or species habitat may occur within area
<u><a href="#">Syngnathoides biaculeatus</a></u> Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
<a href="#"><u>Trachyrhamphus bicoarctatus</u></a> Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area
<a href="#"><u>Urocampus carinirostris</u></a> Hairy Pipefish [66282]		Species or species habitat may occur within area
<a href="#"><u>Vanacampus marginifer</u></a> Mother-of-pearl Pipefish [66283]		Species or species habitat may occur within area
<b>Mammal</b>		
<a href="#"><u>Arctocephalus forsteri</u></a> Long-nosed Fur-seal, New Zealand Fur-seal [20]		Species or species habitat may occur within area
<a href="#"><u>Arctocephalus pusillus</u></a> Australian Fur-seal, Australo-African Fur-seal [21]		Species or species habitat may occur within area
<a href="#"><u>Dugong dugon</u></a> Dugong [28]		Species or species habitat may occur within area
<b>Reptile</b>		
<a href="#"><u>Caretta caretta</u></a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
<a href="#"><u>Chelonia mydas</u></a> Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#"><u>Dermochelys coriacea</u></a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat likely to occur within area
<a href="#"><u>Eretmochelys imbricata</u></a> Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area

Scientific Name	Threatened Category	Presence Text
<a href="#"><u>Hydrophis platura</u> as <i>Pelamis platurus</i></a>		
Yellow-bellied Sea Snake [93746]		Species or species habitat may occur within area
<a href="#"><u>Natator depressus</u></a>		
Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#"><u>Whales and Other Cetaceans</u></a>		<a href="#">[ Resource Information ]</a>
Current Scientific Name	Status	Type of Presence
Mammal		
<a href="#"><u>Balaenoptera acutorostrata</u></a>		
Minke Whale [33]		Species or species habitat may occur within area
<a href="#"><u>Balaenoptera edeni</u></a>		
Bryde's Whale [35]		Species or species habitat may occur within area
<a href="#"><u>Balaenoptera musculus</u></a>		
Blue Whale [36]	Endangered	Species or species habitat may occur within area
<a href="#"><u>Caperea marginata</u></a>		
Pygmy Right Whale [39]		Foraging, feeding or related behaviour may occur within area
<a href="#"><u>Delphinus delphis</u></a>		
Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
<a href="#"><u>Eubalaena australis</u></a>		
Southern Right Whale [40]	Endangered	Species or species habitat likely to occur within area
<a href="#"><u>Grampus griseus</u></a>		
Risso's Dolphin, <i>Grampus</i> [64]		Species or species habitat may occur within area
<a href="#"><u>Megaptera novaeangliae</u></a>		
Humpback Whale [38]		Species or species habitat known to occur within area

Current Scientific Name	Status	Type of Presence
<a href="#"><u>Orcinus orca</u></a>		
Killer Whale, Orca [46]		Species or species habitat may occur within area
<a href="#"><u>Stenella attenuata</u></a>		
Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area
<a href="#"><u>Tursiops aduncus</u></a>		
Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area
<a href="#"><u>Tursiops truncatus s. str.</u></a>		
Bottlenose Dolphin [68417]		Species or species habitat may occur within area

## Extra Information

State and Territory Reserves			[ <a href="#">Resource Information</a> ]
Protected Area Name	Reserve Type	State	
Port Stephens - Great Lakes	Marine Park	NSW	
Regional Forest Agreements			[ <a href="#">Resource Information</a> ]
Note that all areas with completed RFAs have been included. Please see the associated resource information for specific caveats and use limitations associated with RFA boundary information.			
RFA Name			State
<a href="#"><u>North East NSW RFA</u></a>			New South Wales
Nationally Important Wetlands			[ <a href="#">Resource Information</a> ]
Wetland Name			State
<a href="#"><u>Port Stephens Estuary</u></a>			NSW
EPBC Act Referrals			[ <a href="#">Resource Information</a> ]
Title of referral	Reference	Referral Outcome	Assessment Status
Not controlled action			
<a href="#"><u>Growing of Pearl Oysters at Wanda Head, Mambo Creek and Pindimar Leases.</u></a>	2003/1157	Not Controlled Action	Completed
<a href="#"><u>Improving rabbit biocontrol: releasing another strain of RHDV, sthur two thirds of Australia</u></a>	2015/7522	Not Controlled Action	Completed
<a href="#"><u>Tomago to Tomaree Electricity Supply Upgrade</u></a>	2003/1023	Not Controlled Action	Completed

Title of referral	Reference	Referral Outcome	Assessment Status
Referral decision			
<a href="#">Breeding program for Grey Nurse Sharks</a>	2007/3245	Referral Decision	Completed

Biologically Important Areas		[ Resource Information ]	
Scientific Name	Behaviour	Presence	
Dolphins			
<a href="#">Tursiops aduncus</a>			
Indo-Pacific/Spotted Bottlenose Dolphin [68418]	Breeding	Known to occur	
Seabirds			
<a href="#">Ardenna grisea</a>			
Sooty Shearwater [82651]	Foraging	Likely to occur	
<a href="#">Ardenna pacifica</a>			
Wedge-tailed Shearwater [84292]	Foraging	Likely to occur	
<a href="#">Ardenna tenuirostris</a>			
Short-tailed Shearwater [82652]	Foraging	Likely to occur	
Sharks			
<a href="#">Carcharias taurus</a>			
Grey Nurse Shark [64469]	Foraging	Known to occur	

# Caveat

## 1 PURPOSE

This report is designed to assist in identifying the location of matters of national environmental significance (MNES) and other matters protected by the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) which may be relevant in determining obligations and requirements under the EPBC Act.

The report contains the mapped locations of:

- World and National Heritage properties;
- Wetlands of International and National Importance;
- Commonwealth and State/Territory reserves;
- distribution of listed threatened, migratory and marine species;
- listed threatened ecological communities; and
- other information that may be useful as an indicator of potential habitat value.

## 2 DISCLAIMER

This report is not intended to be exhaustive and should only be relied upon as a general guide as mapped data is not available for all species or ecological communities listed under the EPBC Act (see below). Persons seeking to use the information contained in this report to inform the referral of a proposed action under the EPBC Act should consider the limitations noted below and whether additional information is required to determine the existence and location of MNES and other protected matters.

Where data is available to inform the mapping of protected species, the presence type (e.g. known, likely or may occur) that can be determined from the data is indicated in general terms. It is the responsibility of any person using or relying on the information in this report to ensure that it is suitable for the circumstances of any proposed use. The Commonwealth cannot accept responsibility for the consequences of any use of the report or any part thereof. To the maximum extent allowed under governing law, the Commonwealth will not be liable for any loss or damage that may be occasioned directly or indirectly through the use of, or reliance on the contents of this report.

## 3 DATA SOURCES

### Threatened ecological communities

For threatened ecological communities where the distribution is well known, maps are generated based on information contained in recovery plans, State vegetation maps and remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

### Threatened, migratory and marine species

Threatened, migratory and marine species distributions have been discerned through a variety of methods. Where distributions are well known and if time permits, distributions are inferred from either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc.) together with point locations and described habitat; or modelled (MAXENT or BIOCLIM habitat modelling) using point locations and environmental data layers.

Where little information is available for a species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc.).

In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More detailed distribution mapping methods are used to update these distributions when time permits.

## 4 LIMITATIONS

The following species and ecological communities have not been mapped and do not appear in this report:

- threatened species listed as extinct or considered vagrants;
- some recently listed species and ecological communities;
- some listed migratory and listed marine species, which are not listed as threatened species; and
- migratory species that are very widespread, vagrant, or only occur in Australia in small numbers.

The following groups have been mapped, but may not cover the complete distribution of the species:

- listed migratory and/or listed marine seabirds, which are not listed as threatened, have only been mapped for recorded breeding sites; and
- seals which have only been mapped for breeding sites near the Australian continent

The breeding sites may be important for the protection of the Commonwealth Marine environment.

Refer to the metadata for the feature group (using the Resource Information link) for the currency of the information.

# Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- [-Office of Environment and Heritage, New South Wales](#)
- [-Department of Environment and Primary Industries, Victoria](#)
- [-Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [-Department of Environment, Water and Natural Resources, South Australia](#)
- [-Department of Land and Resource Management, Northern Territory](#)
- [-Department of Environmental and Heritage Protection, Queensland](#)
- [-Department of Parks and Wildlife, Western Australia](#)
- [-Environment and Planning Directorate, ACT](#)
- [-Birdlife Australia](#)
- [-Australian Bird and Bat Banding Scheme](#)
- [-Australian National Wildlife Collection](#)
- [-Natural history museums of Australia](#)
  - [-Museum Victoria](#)
  - [-Australian Museum](#)
  - [-South Australian Museum](#)
  - [-Queensland Museum](#)
  - [-Online Zoological Collections of Australian Museums](#)
  - [-Queensland Herbarium](#)
  - [-National Herbarium of NSW](#)
  - [-Royal Botanic Gardens and National Herbarium of Victoria](#)
  - [-Tasmanian Herbarium](#)
  - [-State Herbarium of South Australia](#)
  - [-Northern Territory Herbarium](#)
  - [-Western Australian Herbarium](#)
  - [-Australian National Herbarium, Canberra](#)
  - [-University of New England](#)
  - [-Ocean Biogeographic Information System](#)
- [-Australian Government, Department of Defence](#)
- [Forestry Corporation, NSW](#)
- [-Geoscience Australia](#)
- [-CSIRO](#)
- [-Australian Tropical Herbarium, Cairns](#)
- [-eBird Australia](#)
- [-Australian Government – Australian Antarctic Data Centre](#)
- [-Museum and Art Gallery of the Northern Territory](#)
- [-Australian Government National Environmental Science Program](#)
- [-Australian Institute of Marine Science](#)
- [-Reef Life Survey Australia](#)
- [-American Museum of Natural History](#)
- [-Queen Victoria Museum and Art Gallery, Inveresk, Tasmania](#)
- [-Tasmanian Museum and Art Gallery, Hobart, Tasmania](#)
- [-Other groups and individuals](#)

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the [Contact us](#) page.

© Commonwealth of Australia  
Department of Climate Change, Energy, the Environment and Water  
GPO Box 3090  
Canberra ACT 2601 Australia  
+61 2 6274 1111