



Illawarra Regional Business Park
78 Tongarra Road, Albion Park

Proposed Industrial Subdivision – Concept Plan

EPBC Act Considerations

May 2007



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F Dominic Fanning

**ILLAWARRA REGIONAL BUSINESS PARK
78 TONGARRA ROAD, ALBION PARK**

INDUSTRIAL SUBDIVISION & DEVELOPMENT – CONCEPT PLAN

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**ILLAWARRA REGIONAL BUSINESS PARK
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1 INTRODUCTION

1.1 Environment Protection & Biodiversity Conservation Act 1999

The Commonwealth Environment Protection & Biodiversity Conservation Act 1999 (EPBC Act) aims:

- *“to provide for the protection of the environment, especially those aspects of the environment that are matters of national environmental significance”; and*
- *“to promote the conservation of biodiversity”.*

Pursuant to the EPBC Act, any action which “*has, will have, or is likely to have a significant impact on a matter of national environmental significance*” is defined as a “*controlled action*”, and will require approval from the Minister for the Environment.

The matters of “*national environmental significance*” listed under the EPBC Act are:

- World Heritage properties;
- wetlands protected by international treaty (the Ramsar Convention);
- nationally listed threatened species and ecological communities;
- nationally listed migratory species protected under international agreements;
- nuclear actions; and
- the environment of Commonwealth marine areas.

Under Section 68 of the EPBC Act, “*a person proposing to take an action that the person thinks may be or is a controlled action must refer the proposal to the Minister for the Minister’s decision whether or not the action is a controlled action*”. However, a person proposing to take an action that the person thinks is not a “*controlled action*” may also refer the proposal to the Minister for the Minister’s decision, whether or not the action is a “*controlled action*”.

1.2 Bilateral Agreement & the Administrative Guidelines

The EPBC Act provides a mechanism for assessing the environmental impacts of activities and developments, where “*matters of national environmental significance*” may be affected by the proposed activities. It is intended that the environmental assessment and approval process required by the Commonwealth government ultimately be delegated to individual states through the development of *Bilateral Agreements* between the relevant state and the Commonwealth government. In the interim, “*matters of national environmental significance*” which may be affected by a development or activity are to be assessed by the Commonwealth Minister for the Environment, through Environment Australia.

A set of “*Administrative Guidelines*” has been prepared by Environment Australia for implementation of the EPBC Act in the period until bilateral agreements with state governments are established. The *Guidelines* are provided to assist the proponent in determining whether an action should be referred to the Minister for the Environment for a decision on whether approval is required. In particular, the

Guidelines include a set of criteria “for determining whether an action has, will have, or is likely to have a significant impact on a matter of national environmental significance”.

The NSW state government and the Commonwealth government have entered into a *Bilateral Agreement* (signed by the state government in January 2007), which provides for the consideration of potential impacts on “*matters of national environmental significance*” pursuant to the NSW assessment processes. The *Bilateral Agreement* between the two governments “*provides for the accreditation of the New South Wales environmental impact assessment processes (set out in Schedule 1) to ensure an integrated and coordinated approach for actions requiring approval from both the Commonwealth (under the Commonwealth Environment Protection and Biodiversity Conservation Act 1999) and the State of New South Wales. This agreement will therefore enable the Commonwealth to rely primarily on the New South Wales assessment processes set out in Schedule 1 in assessing actions under the Commonwealth Environment Protection and Biodiversity Conservation Act 1999*”.

Implementation of the *Bilateral Agreement* envisages the provision of *Guidelines* and protocols for the assessment using NSW state procedures of “*matters of national environmental significance*” identified in the EPBC Act. In the absence of a formal assessment process pursuant to the *Bilateral Agreement*, this *Report* has assessed the likely impacts of the Illawarra Regional Business Park project pursuant to the existing set of “*Administrative Guidelines*” has been prepared by Environment Australia for implementation of the EPBC Act.

1.3 The Illawarra Regional Business Park

The *Online Database* of items of “*national environmental significance*” provided by Environment Australia was accessed with respect to the proposed Illawarra Regional Business Park. A number of items were identified within an area of approximately 25km² around and including the subject site at Albion Park:

- 47 threatened species;
- 35 migratory (terrestrial and wetland) fauna species;
- 52 marine protected fauna species;
- 11 whales and other cetaceans; and
- a number of “*other matters protected by the EPBC Act*” (Appendix A).

Of these, however, many are of no relevance to the proposed Illawarra Regional Business Park development given:

- the location of the subject site (in a severely modified landscape and upstream of Lake Illawarra);
- the nature and condition of the subject site (being substantially cleared and having been subjected to agricultural activities over a long period);
- the nature and habitat preferences, and the lifestyle habits of the identified species, and the habitats and resources present on (or absent from) the subject site;
- the environmental management measures to be implemented as part of the project, including the use of appropriate sedimentation and pollution controls during the construction and operational phases of the Business Park; and
- the substantial environmental benefit which will arise as result of the management of the *Environmental Management Zone* on the site.

2 POTENTIAL IMPACTS on MATTERS of NATIONAL ENVIRONMENTAL SIGNIFICANCE

It is the opinion of the author of this *Report* that the proposed Illawarra Regional Business Park development is not “*likely*” to constitute a “*controlled action*”. It is not “*likely*” that the proposed development would impose a “*significant impact*” on any of the “*matters of national environmental significance*” identified above.

Nevertheless, the proposed Illawarra Regional Business Park development could potentially (theoretically at least) impose minor impacts on some of the “*matters of national environmental significance*” identified above, depending on particular aspects of the proposal and its operation:

- individuals of some of the listed threatened bird and mammal species known to occur in the locality (see Appendix A); and
- individuals of some migratory species (terrestrial and wetland species and migratory marine birds) and some avifauna species protected under international agreements.

The proposed development will not have a “*significant impact*” on any World Heritage properties, nuclear actions or the Commonwealth marine environment.

2.1 Listed Threatened Species & Ecological Communities

A total of 47 flora and fauna species listed as “*nationally threatened species*” listed on the EPBC Act have been recorded in the locality (an area of 25km² around and including the subject site) of the proposed Illawarra Regional Business Park (Appendix A).

The potential for the proposed development to impose a “*significant impact*” on any listed threatened species is considered to be extremely low, given:

- the existing nature and condition of the subject site;
- the retention of most or all of the relevant habitats and resources for the majority of such species; and
- the substantial improvement in flora and fauna habitats which will be generated by the proposal.

2.1.1 Nationally Threatened Plant Species

No nationally threatened flora species have been recorded on the subject site, and none are regarded as likely to be present given the existing nature and condition of the site.

None of the species identified in the locality on the Environment Australia website are considered likely to be present on the subject site at Albion Park.

2.1.2 Nationally Threatened Fauna Species

Although no nationally listed threatened fauna species have been recorded on the site of the proposed Illawarra Regional Business Park, individuals of a number of such species (particularly highly mobile and wide-ranging species such as the microchiropteran bats, Grey-headed Flying Fox, and several of the listed birds) could occur on the site at times. However, the subject site contains very limited resources for any of these nationally threatened fauna species, and the project will generate a significant increase in habitats and resources of relevance.

A “*significant impact*” is not “*likely*” to be imposed upon any nationally listed threatened fauna species known from the locality, even if they do occur on the subject site on occasion, given:

- the highly modified and degraded nature of the site;
- the absence of preferred or critical habitat for any such species and/or the protection of the limited resources present (such as the 3 large fig trees present);

- the high mobility and wide-ranging habits of most of the potentially relevant species; and
- the substantial increase in habitats and resources which will be a product of the proposed development.

2.1.3 Nationally Significant Ecological Communities

No vegetation communities listed as “*nationally significant ecological communities*” listed on the EPBC Act have been recorded in the locality (Appendix A).

2.2 Migratory Birds

A number of migratory bird species known to occur in the vicinity of the subject site, and the wetlands present provide suitable seasonal habitat for many of the migratory wetland bird species listed. The migratory bird species are listed under the following three categories referred to in the Environment Australia *Online Database*:

- terrestrial species covered by the provisions of the EPBC Act;
- wetland species covered by migratory provisions of the EPBC Act; and
- species covered by marine provisions of the EPBC Act.

As noted above, the proposed Illawarra Regional Business Park site contains suitable wetland habitat for several migratory bird species listed on international agreements between the Australian Commonwealth Government and Japan (JAMBA) and China (CAMBA).

As also noted above, the proposed development incorporates a range of measures to protect the wetlands on the site and the implementation of a substantial habitat rehabilitation program on the subject site. This approach will create substantially more habitat for migratory bird species, and will significantly improve the quality of the habitat present.

A “*significant impact*” is not “*likely*” to be imposed on any nationally listed migratory bird species known from the locality, given:

- the highly modified nature of the proposed Illawarra Regional Business Park site in its current condition;
- the protection of most of the relevant habitat present; and
- the implementation of a major revegetation and rehabilitation program which will improve and extend the habitats for these species on the subject site.

The proposed development is highly unlikely to impose a significant impact (other than a beneficial impact) on any migratory species and their habitats pursuant to the EPBC Act.

3 CONCLUSIONS

The proposed Illawarra Regional Business Park will not impose a “*significant impact*” on any “*matters of national environmental significance*” under the EPBC Act because of:

- the location of the subject site (in a severely modified landscape and upstream of Lake Illawarra);
- the existing nature and condition of the subject site (being substantially cleared and having been subjected to agricultural activities over a long period);
- the nature and habitat preferences, and the lifestyle habits of the identified species, and the habitats and resources present on (or absent from) the subject site;
- the high mobility and wide-ranging habits of most of the potentially relevant species;
- the environmental management measures to be implemented as part of the project, including the use of appropriate sedimentation and pollution controls during the construction and operational phases of the Business Park; and
- the substantial environmental benefit which will arise as result of the rehabilitation of the Riparian Buffer area within the subject site and the maintenance of areas of pasture which also provide habitat for some relevant species.

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Appendix A
Environment Australia Website Listing

April 2007

Protected Matters Search Tool

You are here: [Environment Home](#) > [EPBC Act](#) > [Search](#)

26 March 2007 14:53

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. Information on the coverage of this report and qualifications on data supporting this report are contained in the [caveat](#) at the end of the report.

You may wish to print this report for reference before moving to other pages or websites.

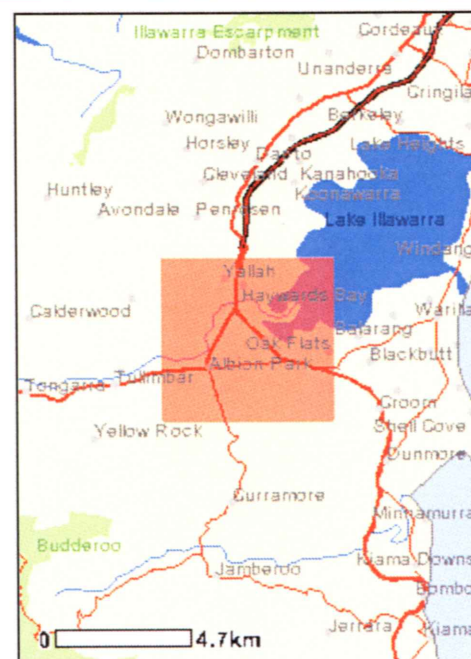
The Australian Natural Resources Atlas at <http://www.environment.gov.au/atlas> may provide further environmental information relevant to your selected area. Information about the EPBC Act including significance guidelines, forms and application process details can be found at <http://www.environment.gov.au/epbc/assessmentsapprovals/index.html>

Search Type: Area
Buffer: 5 km
Coordinates: -34.53104,150.75747, -34.59118,150.75747, -34.59118,150.82111, -34.5310,150.82111



- Report Contents:** [Summary](#)
[Details](#)
- [Matters of NES](#)
 - [Other matters protected by the EPBC Act](#)
 - [Extra Information](#)

[Caveat](#)
[Acknowledgments](#)



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Summary

Matters of National Environmental 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 - see <http://www.environment.gov.au/epbc/assessmentsapprovals/guidelines/index.html>.

World Heritage Properties:

None

National Heritage Places:	None
Wetlands of International Significance: (Ramsar Sites)	None
<u>Commonwealth Marine Areas:</u>	Relevant
Threatened Ecological Communities:	None
<u>Threatened Species:</u>	47
<u>Migratory Species:</u>	35

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 and the heritage values of a place on the Register of the National Estate. Information on the new heritage laws can be found at <http://www.environment.gov.au/heritage/index.html>.

Please note that the current dataset on Commonwealth land is not complete. Further information on Commonwealth land would need to be obtained from relevant sources including Commonwealth agencies, local agencies, and land tenure maps.

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. Information on EPBC Act permit requirements and application forms can be found at <http://www.environment.gov.au/epbc/permits/index.html>.

<u>Commonwealth Lands:</u>	5
Commonwealth Heritage Places:	None
<u>Places on the RNE:</u>	7
<u>Listed Marine Species:</u>	52
<u>Whales and Other Cetaceans:</u>	11
Critical Habitats:	None
Commonwealth Reserves:	None

Extra Information

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

<u>State and Territory Reserves:</u>	2
Other Commonwealth Reserves:	None
<u>Regional Forest Agreements:</u>	1

Details

Matters of National Environmental Significance

Commonwealth Marine Areas [[Dataset Information](#)]

Approval may be required for a proposed activity that is likely to have a significant impact on the environment in a Commonwealth Marine Area, when the action is outside the Commonwealth Marine Area, or the environment anywhere when the action is taken within the Commonwealth Marine Area. Generally the Commonwealth Marine Area stretches from three nautical miles to two hundred nautical miles from the coast.

Within 3 Nautical Mile Limit

Threatened Species [[Dataset Information](#)]

Birds

Threatened Species [Dataset Information]	Status	Type of Presence
Birds		
<i>Dasyornis brachypterus</i> * Eastern Bristlebird	Endangered	Species or species habitat likely to occur within area
<i>Diomedea antipodensis</i> * Antipodean Albatross	Vulnerable	Species or species habitat may occur within area
<i>Diomedea gibsoni</i> * Gibson's Albatross	Vulnerable	Species or species habitat may occur within area
<i>Lathamus discolor</i> * Swift Parrot	Endangered	Species or species habitat may occur within area
<i>Macronectes giganteus</i> * Southern Giant-Petrel	Endangered	Species or species habitat may occur within area
<i>Macronectes halli</i> * Northern Giant-Petrel	Vulnerable	Species or species habitat may occur within area
<i>Neophema chrysogaster</i> * Orange-bellied Parrot	Critically Endangered	Species or species habitat may occur within area
<i>Pterodroma neglecta neglecta</i> * Kermadec Petrel (western)	Vulnerable	Species or species habitat may occur within area
<i>Rostratula australis</i> * Australian Painted Snipe	Vulnerable	Species or species habitat may occur within area
<i>Thalassarche bulleri</i> * Buller's Albatross	Vulnerable	Species or species habitat may occur within area
<i>Thalassarche cauta</i> * Shy Albatross	Vulnerable	Species or species habitat may occur within area
<i>Thalassarche impavida</i> * Campbell Albatross	Vulnerable	Species or species habitat may occur within area
<i>Thalassarche salvini</i> * Salvin's Albatross	Vulnerable	Species or species habitat may occur within area
<i>Thalassarche steadi</i> * White-capped Albatross	Vulnerable	Species or species habitat may occur within area
<i>Xanthomyza phrygia</i> * Regent Honeyeater	Endangered	Species or species habitat likely to occur within area
Frogs		
<i>Heleioporus australiacus</i> * Giant Burrowing Frog	Vulnerable	Species or species habitat likely to occur within area
<i>Litoria aurea</i> * Green and Golden Bell Frog	Vulnerable	Species or species habitat likely to occur within area
<i>Litoria littlejohni</i> * Littlejohn's Tree Frog, Heath Frog	Vulnerable	Species or species habitat may occur within area
<i>Mixophyes balbus</i> * Stuttering Frog, Southern Barred Frog (in Victoria)	Vulnerable	Species or species habitat likely to occur within area
Mammals		
<i>Chalinolobus dwyeri</i> * Large-eared Pied Bat, Large Pied Bat	Vulnerable	Species or species habitat may occur within area

<i>Dasyurus maculatus maculatus</i> (SE mainland population) *	Endangered	Species or species habitat may occur within area
Spot-tailed Quoll, Spotted-tail Quoll, Tiger Quoll (southeastern mainland population)		
<i>Eubalaena australis</i> *	Endangered	Species or species habitat known to occur within area
Southern Right Whale		
<i>Isodon obesulus obesulus</i> *	Endangered	Species or species habitat may occur within area
Southern Brown Bandicoot		
<i>Megaptera novaeangliae</i> *	Vulnerable	Species or species habitat known to occur within area
Humpback Whale		
<i>Petrogale penicillata</i> *	Vulnerable	Species or species habitat may occur within area
Brush-tailed Rock-wallaby		
<i>Potorous tridactylus tridactylus</i> *	Vulnerable	Species or species habitat may occur within area
Long-nosed Potoroo (SE mainland)		
<i>Pteropus poliocephalus</i> *	Vulnerable	Roosting known to occur within area
Grey-headed Flying-fox		
Ray-finned fishes		
<i>Macquaria australasica</i> *	Endangered	Species or species habitat may occur within area
Macquarie Perch		
<i>Prototroctes maraena</i> *	Vulnerable	Species or species habitat likely to occur within area
Australian Grayling		
Reptiles		
<i>Chelonia mydas</i> *	Vulnerable	Species or species habitat may occur within area
Green Turtle		
<i>Dermochelys coriacea</i> *	Vulnerable	Species or species habitat may occur within area
Leathery Turtle, Leatherback Turtle, Luth		
<i>Hoplocephalus bungaroides</i> *	Vulnerable	Species or species habitat likely to occur within area
Broad-headed Snake		
Sharks		
<i>Carcharias taurus</i> (east coast population) *	Critically Endangered	Species or species habitat may occur within area
Grey Nurse Shark (east coast population)		
<i>Carcharodon carcharias</i> *	Vulnerable	Species or species habitat may occur within area
Great White Shark		
<i>Rhincodon typus</i> *	Vulnerable	Species or species habitat may occur within area
Whale Shark		
Plants		
<i>Boronia deanei</i> *	Vulnerable	Species or species habitat likely to occur within area
Deane's Boronia		
<i>Caladenia tessellata</i> *	Vulnerable	Species or species habitat likely to occur within area
Thick-lipped Spider-orchid, Daddy Long-legs		
<i>Cryptostylis hunteriana</i> *	Vulnerable	Species or species habitat may occur within area
Leafless Tongue-orchid		
<i>Cynanchum elegans</i> *	Endangered	Species or species habitat likely to occur within area
White-flowered Wax Plant		
<i>Daphnandra sp. Illawarra (R.Schodde 3475)</i> *	Endangered	Species or species habitat likely to occur within area
<i>Irenepharsus trypherus</i> *	Endangered	Species or species habitat likely to occur within area
Delicate Cress, Illawarra Irene		
<i>Pimelea spicata</i> *	Endangered	Species or species habitat may occur within area
<i>Pterostylis gibbosa</i> *	Endangered	Species or species habitat likely to occur

Illawarra Greenhood, Rufa Greenhood, Pouched Greenhood

[*Pterostylis pulchella*](#) *

Pretty Greenhood

[*Pultenaea aristata*](#) *

[*Thesium australe*](#) *

Austral Toadflax, Toadflax

[*Zieria granulata*](#) *

Hill Zieria, Hilly Zieria, Illawarra Zieria

Migratory Species [[Dataset Information](#)]

Migratory Terrestrial Species

Birds

[*Haliaeetus leucogaster*](#)

White-bellied Sea-Eagle

[*Hirundapus caudacutus*](#)

White-throated Needletail

[*Merops ornatus*](#)

Rainbow Bee-eater

[*Monarcha melanopsis*](#)

Black-faced Monarch

[*Myiagra cyanoleuca*](#)

Satin Flycatcher

[*Neophema chrysogaster*](#)

Orange-bellied Parrot

[*Rhipidura rufifrons*](#)

Rufous Fantail

[*Xanthomyza phrygia*](#)

Regent Honeyeater

Migratory Wetland Species

Birds

[*Ardea alba*](#)

Great Egret, White Egret

[*Ardea ibis*](#)

Cattle Egret

[*Gallinago hardwickii*](#)

Latham's Snipe, Japanese Snipe

[*Rostratula benghalensis s. lat.*](#)

Painted Snipe

Migratory Marine Birds

[*Apus pacificus*](#)

Fork-tailed Swift

[*Ardea alba*](#)

Great Egret, White Egret

[*Ardea ibis*](#)

Cattle Egret

[*Diomedea antipodensis*](#)

Antipodean Albatross

[*Diomedea gibsoni*](#)

within area

Vulnerable Species or species habitat likely to occur within area

Vulnerable Species or species habitat likely to occur within area

Vulnerable Species or species habitat likely to occur within area

Endangered Species or species habitat likely to occur within area

Status Type of Presence

Migratory Species or species habitat likely to occur within area

Migratory Species or species habitat may occur within area

Migratory Species or species habitat may occur within area

Migratory Breeding may occur within area

Migratory Breeding likely to occur within area

Migratory Species or species habitat may occur within area

Migratory Breeding may occur within area

Migratory Species or species habitat likely to occur within area

Migratory Species or species habitat may occur within area

Migratory Species or species habitat may occur within area

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Migratory Species or species habitat may occur within area

Migratory Species or species habitat may occur within area

Migratory Species or species habitat may occur within area

Migratory Species or species habitat may occur within area

Gibson's Albatross

[*Macronectes giganteus*](#)

Southern Giant-Petrel

[*Macronectes halli*](#)

Northern Giant-Petrel

[*Sterna albifrons*](#)

Little Tern

[*Thalassarche bulleri*](#)

Buller's Albatross

[*Thalassarche cauta*](#)

Shy Albatross

[*Thalassarche impavida*](#)

Campbell Albatross

[*Thalassarche salvini*](#)

Salvin's Albatross

[*Thalassarche steadi*](#)

White-capped Albatross

Migratory Marine Species**Mammals**[*Balaenoptera edeni*](#)

Bryde's Whale

[*Caperea marginata*](#)

Pygmy Right Whale

[*Eubalaena australis*](#) *

Southern Right Whale

[*Lagenorhynchus obscurus*](#)

Dusky Dolphin

[*Megaptera novaeangliae*](#) *

Humpback Whale

[*Orcinus orca*](#)

Killer Whale, Orca

Reptiles[*Chelonia mydas*](#) *

Green Turtle

[*Dermochelys coriacea*](#) *

Leathery Turtle, Leatherback Turtle, Luth

Sharks[*Carcharodon carcharias*](#)

Great White Shark

[*Rhincodon typus*](#)

Whale Shark

Other Matters Protected by the EPBC ActListed Marine Species [[Dataset Information](#)]**Birds**[*Apus pacificus*](#)

Fork-tailed Swift

[*Ardea alba*](#)

area

Migratory

Species or species habitat may occur within area

Migratory

Species or species habitat may occur within area

Migratory

Species or species habitat may occur within area

Migratory

Species or species habitat may occur within area

Migratory

Species or species habitat may occur within area

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Migratory

Species or species habitat may occur within area

Migratory

Species or species habitat may occur within area

Migratory

Species or species habitat may occur within area

Migratory

Species or species habitat may occur within area

Migratory

Species or species habitat may occur within area

Status

Type of Presence

Listed -
overfly
marine
area

Species or species habitat may occur within area

Listed -

Species or species habitat may occur within

Great Egret, White Egret

[*Ardea ibis*](#)

Cattle Egret

overfly
marine
areaListed -
overfly
marine
areaarea
Species or species habitat may occur within
area[*Diomedea antipodensis*](#)

Antipodean Albatross

Listed

Species or species habitat may occur within
area[*Diomedea gibsoni*](#)

Gibson's Albatross

Listed

Species or species habitat may occur within
area[*Gallinago hardwickii*](#)

Latham's Snipe, Japanese Snipe

Listed -
overfly
marine
areaSpecies or species habitat may occur within
area[*Haliaeetus leucogaster*](#)

White-bellied Sea-Eagle

Listed

Species or species habitat likely to occur
within area[*Hirundapus caudacutus*](#)

White-throated Needletail

Listed -
overfly
marine
areaSpecies or species habitat may occur within
area[*Lathamus discolor*](#) *

Swift Parrot

Listed -
overfly
marine
areaSpecies or species habitat may occur within
area[*Macronectes giganteus*](#)

Southern Giant-Petrel

Listed

Species or species habitat may occur within
area[*Macronectes halli*](#)

Northern Giant-Petrel

Listed

Species or species habitat may occur within
area[*Merops ornatus*](#)

Rainbow Bee-eater

Listed -
overfly
marine
areaSpecies or species habitat may occur within
area[*Monarcha melanopsis*](#)

Black-faced Monarch

Listed -
overfly
marine
area

Breeding may occur within area

[*Myiagra cyanoleuca*](#)

Satin Flycatcher

Listed -
overfly
marine
area

Breeding likely to occur within area

[*Neophema chrysogaster*](#)

Orange-bellied Parrot

Listed -
overfly
marine
areaSpecies or species habitat may occur within
area[*Rhipidura rufifrons*](#)

Rufous Fantail

Listed -
overfly
marine
area

Breeding may occur within area

[*Rostratula benghalensis s. lat.*](#)

Painted Snipe

Listed -
overfly
marine
areaSpecies or species habitat may occur within
area[*Sterna albifrons*](#)

Listed

Species or species habitat may occur within

Little Tern

[*Thalassarche bulleri*](#)

Buller's Albatross

Listed Species or species habitat may occur within area

[*Thalassarche cauta*](#)

Shy Albatross

Listed Species or species habitat may occur within area

[*Thalassarche impavida*](#)

Campbell Albatross

Listed Species or species habitat may occur within area

[*Thalassarche salvini*](#)

Salvin's Albatross

Listed Species or species habitat may occur within area

[*Thalassarche steadi*](#)

White-capped Albatross

Listed Species or species habitat may occur within area

Mammals[*Arctocephalus forsteri*](#)

New Zealand Fur-seal

Listed Species or species habitat may occur within area

[*Arctocephalus pusillus*](#)

Australian Fur-seal, Australo-African Fur-seal

Listed Species or species habitat may occur within area

Ray-finned fishes[*Acentronura tentaculata*](#)

Hairy Pygmy Pipehorse

Listed Species or species habitat may occur within area

[*Cosmocampus howensis*](#)

Lord Howe Pipefish

Listed Species or species habitat may occur within area

[*Festucalex cinctus*](#)

Girdled Pipefish

Listed Species or species habitat may occur within area

[*Filicampus tigris*](#)

Tiger Pipefish

Listed Species or species habitat may occur within area

[*Heraldia nocturna*](#)

Upside-down Pipefish

Listed Species or species habitat may occur within area

[*Hippichthys penicillus*](#)

Beady Pipefish, Steep-nosed Pipefish

Listed Species or species habitat may occur within area

[*Hippocampus abdominalis*](#)

Eastern Potbelly Seahorse, New Zealand Potbelly, Seahorse, Bigbelly Seahorse

Listed Species or species habitat may occur within area

[*Hippocampus breviceps*](#)

Short-head Seahorse, Short-snouted Seahorse

Listed Species or species habitat may occur within area

[*Hippocampus whitei*](#)

White's Seahorse, Crowned Seahorse, Sydney Seahorse

Listed Species or species habitat may occur within area

[*Histiogamphelus briggsii*](#)

Briggs' Crested Pipefish, Briggs' Pipefish

Listed Species or species habitat may occur within area

[*Kimblaeus bassensis*](#)

Trawl Pipefish, Kimbla Pipefish

Listed Species or species habitat may occur within area

[*Lissocampus runa*](#)

Javelin Pipefish

Listed Species or species habitat may occur within area

[*Maroubra perserrata*](#)

Sawtooth Pipefish

Listed Species or species habitat may occur within area

[*Notiocampus ruber*](#)

Red Pipefish

Listed Species or species habitat may occur within area

[*Phyllopteryx taeniolatus*](#)

Weedy Seadragon, Common Seadragon

Listed Species or species habitat may occur within area

[*Solegnathus spinosissimus*](#)

Spiny Pipehorse, Australian Spiny Pipehorse

Listed Species or species habitat may occur within area

[Solenostomus cyanopterus](#)

Blue-finned Ghost Pipefish, Robust Ghost Pipefish

Listed Species or species habitat may occur within area

[Solenostomus paradoxus](#)

Harlequin Ghost Pipefish, Ornate Ghost Pipefish

Listed Species or species habitat may occur within area

[Stigmatopora argus](#)

Spotted Pipefish

Listed Species or species habitat may occur within area

[Stigmatopora nigra](#)

Wide-bodied Pipefish, Black Pipefish

Listed Species or species habitat may occur within area

[Syngnathoides biaculeatus](#)

Double-ended Pipehorse, Alligator Pipefish

Listed Species or species habitat may occur within area

[Trachyrhamphus bicoarctatus](#)

Bend Stick Pipefish, Short-tailed Pipefish

Listed Species or species habitat may occur within area

[Urocampus carinirostris](#)

Hairy Pipefish

Listed Species or species habitat may occur within area

[Vanacampus margaritifer](#)

Mother-of-pearl Pipefish

Listed Species or species habitat may occur within area

[Vanacampus phillipi](#)

Port Phillip Pipefish

Listed Species or species habitat may occur within area

Reptiles[Chelonia mydas](#) *

Green Turtle

Listed Species or species habitat may occur within area

[Dermochelys coriacea](#) *

Leathery Turtle, Leatherback Turtle, Luth

Listed Species or species habitat may occur within area

Whales and Other Cetaceans [[Dataset Information](#)]

Status Type of Presence

[Balaenoptera acutorostrata](#)

Minke Whale

Cetacean Species or species habitat may occur within area

[Balaenoptera edeni](#)

Bryde's Whale

Cetacean Species or species habitat may occur within area

[Caperea marginata](#)

Pygmy Right Whale

Cetacean Species or species habitat may occur within area

[Delphinus delphis](#)

Common Dolphin

Cetacean Species or species habitat may occur within area

[Eubalaena australis](#) *

Southern Right Whale

Cetacean Species or species habitat known to occur within area

[Grampus griseus](#)

Risso's Dolphin, Grampus

Cetacean Species or species habitat may occur within area

[Lagenorhynchus obscurus](#)

Dusky Dolphin

Cetacean Species or species habitat may occur within area

[Megaptera novaeangliae](#) *

Humpback Whale

Cetacean Species or species habitat known to occur within area

[Orcinus orca](#)

Killer Whale, Orca

Cetacean Species or species habitat may occur within area

[Tursiops aduncus](#)

Spotted Bottlenose Dolphin

Cetacean Species or species habitat likely to occur within area

[Tursiops truncatus s. str.](#)

Bottlenose Dolphin

Cetacean Species or species habitat may occur within area

Commonwealth Lands [[Dataset Information](#)]

Australian Academy of Science

Communications, Information Technology and the Arts -
Telstra Corporation Limited

Defence

Defence - Defence Housing Authority

Unknown

Places on the RNE [[Dataset Information](#)]

Note that not all Indigenous sites may be listed.

Historic

[Avondale Homestead and Garden NSW](#)

[Cleveland Homestead NSW](#)

[Horsley, outbuildings and curtilage NSW](#)

[Marshall Mount House & Barn NSW](#)

[Penrose Homestead, Outbuildings and Garden NSW](#)

Natural

[Bass Point Marine Area NSW](#)

[Berkeley Nature Reserve NSW](#)

Extra Information

State and Territory Reserves [[Dataset Information](#)]

Berkeley Nature Reserve, NSW

Budderoo National Park, NSW

Regional Forest Agreements [[Dataset Information](#)]

Note that all RFA areas including those still under consideration have been included.

Southern RFA, New South Wales

Caveat

The information presented in this report has been provided by a range of data sources as [acknowledged](#) at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the *Environment Protection and Biodiversity Conservation Act 1999*. It holds mapped locations of World Heritage and Register of National Estate properties, Wetlands of International Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other information sources.

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.

For species where the distributions are well known, maps are digitised from sources such as recovery plans and detailed habitat studies. Where appropriate, core breeding, foraging and roosting areas are indicated under "type of presence". For species whose distributions are less well known, point locations are collated from government wildlife authorities, museums, and non-government organisations; bioclimatic distribution models are generated and these validated by experts. In some cases, the distribution maps are based solely on expert knowledge.

Only selected species covered by the [migratory](#) and [marine](#) provisions of the Act have been mapped.

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as [extinct or considered as vagrants](#)
- some species and ecological communities that have only recently been listed
- [some terrestrial species](#) that overfly the Commonwealth marine area
- migratory species that are very [widespread, vagrant, or only occur in small numbers](#).

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

- non-threatened seabirds which have only been mapped for recorded breeding sites;
- seals which have only been mapped for breeding sites near the Australian continent.

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

Acknowledgments

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

- [New South Wales National Parks and Wildlife Service](#)
- [Department of Sustainability and Environment, Victoria](#)
- [Department of Primary Industries, Water and Environment, Tasmania](#)
- [Department of Environment and Heritage, South Australia Planning SA](#)
- [Parks and Wildlife Commission of the Northern Territory](#)
- [Environmental Protection Agency, Queensland](#)
- [Birds Australia](#)
- [Australian Bird and Bat Banding Scheme](#)
- [Australian National Wildlife Collection](#)
- Natural history museums of Australia
- [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, Atherton and Canberra](#)
- [University of New England](#)
- Other groups and individuals

[ANUcliM Version 1.8, Centre for Resource and Environmental Studies, Australian National University](#) was used extensively for the production of draft maps of species distribution. Environment Australia is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

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