



Australian Government

Department of Climate Change, Energy,  
the Environment and Water

# 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: 14-Feb-2025

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# 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>	None
<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>	53
<a href="#">Listed Migratory Species:</a>	11

## 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>	6
<a href="#">Commonwealth Heritage Places:</a>	1
<a href="#">Listed Marine Species:</a>	16
<a href="#">Whales and Other Cetaceans:</a>	None
<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>	19
<a href="#">Regional Forest Agreements:</a>	None
<a href="#">Nationally Important Wetlands:</a>	2
<a href="#">EPBC Act Referrals:</a>	23
<a href="#">Key Ecological Features (Marine):</a>	None
<a href="#">Biologically Important Areas:</a>	None
<a href="#">Bioregional Assessments:</a>	None
<a href="#">Geological and Bioregional Assessments:</a>	None

# Details

## Matters of National Environmental Significance

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	Buffer Status
<a href="#">Banksia Woodlands of the Swan Coastal Plain ecological community</a>	Endangered	Community likely to occur within area	In feature area
<a href="#">Clay Pans of the Swan Coastal Plain</a>	Critically Endangered	Community likely to occur within area	In buffer area only
<a href="#">Honeymyrtle shrubland on limestone ridges of the Swan Coastal Plain Bioregion</a>	Critically Endangered	Community may occur within area	In buffer area only
<a href="#">Tuart (Eucalyptus gomphocephala) Woodlands and Forests of the Swan Coastal Plain ecological community</a>	Critically Endangered	Community may occur within area	In feature 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	Buffer Status
BIRD			
<a href="#">Aphelocephala leucopsis</a> Southern Whiteface [529]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Vulnerable	Species or species habitat may occur within area	In buffer area only
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Leipoa ocellata</a> Malleefowl [934]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Rostratula australis</a> Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Sternula nereis nereis</a> Australian Fairy Tern [82950]	Vulnerable	Species or species habitat may occur within area	In buffer area only
<a href="#">Tringa nebularia</a> Common Greenshank, Greenshank [832]	Endangered	Species or species habitat likely to occur within area	In buffer area only
<a href="#">Zanda latirostris listed as Calyptorhynchus latirostris</a> Carnaby's Black Cockatoo, Short-billed Black-cockatoo [87737]	Endangered	Breeding known to occur within area	In feature area
MAMMAL			
<a href="#">Bettongia penicillata ogilbyi</a> Woylie [66844]	Endangered	Species or species habitat likely to occur within area	In buffer area only
<a href="#">Dasyurus geoffroii</a> Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Macroderma gigas</a> Ghost Bat [174]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Parantechinus apicalis</a> Dibbler [313]	Endangered	Species or species habitat may occur within area	In feature area
PLANT			
<a href="#">Acacia forrestiana</a> Forest's Wattle [17235]	Vulnerable	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Acacia splendens</a> Splendid Wattle, Dandaragan Wattle [81510]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Acacia wilsonii</a> Wilson's Wattle [65228]	Endangered	Species or species habitat known to occur within area	In buffer area only
<a href="#">Andersonia gracilis</a> Slender Andersonia [14470]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Anigozanthos viridis subsp. terraspectans</a> Dwarf Green Kangaroo Paw [3435]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Banksia catoglypta</a> [85021]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Banksia fuscobractea</a> Dark-bract Banksia [83059]	Critically Endangered	Species or species habitat may occur within area	In buffer area only
<a href="#">Banksia mimica</a> Summer Honeypot [82765]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Banksia serratuloides subsp. perissa</a> Northern Serrate Dryandra [82767]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Caleana dixonii listed as Paracaleana dixonii</a> Sandplain Duck Orchid [87944]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Chamelaucium lullfitzii listed as Chamelaucium sp. Gingin (N.G.Marchant 6)</a> Gingin Wax [92777]	Endangered (listed as Chamelaucium sp. Gingin)	Species or species habitat may occur within area	In feature area
<a href="#">Chamelaucium sp. Cataby (G.J.Keighery 11009)</a> Griffin's Waxflower [82509]	Vulnerable	Species or species habitat known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Conospermum densiflorum subsp. unicephalum</a> One-headed Smokebush [64871]	Endangered	Species or species habitat likely to occur within area	In buffer area only
<a href="#">Daviesia dielsii</a> Diels' Daviesia [19617]	Endangered	Species or species habitat may occur within area	In buffer area only
<a href="#">Drakaea elastica</a> Glossy-leafed Hammer Orchid, Glossy-leafed Hammer Orchid, Warty Hammer Orchid [16753]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Eleocharis keigheryi</a> Keighery's Eleocharis [64893]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
<a href="#">Eremophila scaberula</a> Rough Emu Bush [16729]	Endangered	Species or species habitat may occur within area	In buffer area only
<a href="#">Eucalyptus absita</a> Badgingarra Box [24260]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Eucalyptus crispata</a> Yandanooka Mallee [24268]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
<a href="#">Eucalyptus dolorosa</a> Dandaragan Mallee, Mount Misery Mallee [56709]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Eucalyptus leprophloia</a> Scaly Butt Mallee, Scaly-butt Mallee [56712]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Eucalyptus pruiniramis</a> Midlands Gum, Jingymia Gum [56403]	Endangered	Species or species habitat likely to occur within area	In buffer area only
<a href="#">Eucalyptus suberea</a> Cork Mallee, Mount Lesueur Mallee [5529]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only



Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Eucalyptus x balanites</a> Cadda Road Mallee, Cadda Mallee [87816]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Grevillea batrachioides</a> Mt Lesueur Grevillea [21735]	Endangered	Species or species habitat likely to occur within area	In buffer area only
<a href="#">Grevillea calliantha</a> Foote's Grevillea, Cataby Grevillea, Black Magic Grevillea [56339]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Grevillea christineae</a> Christine's Grevillea [64520]	Endangered	Species or species habitat likely to occur within area	In buffer area only
<a href="#">Grevillea curviloba subsp. incurva</a> Narrow curved-leaf Grevillea [64909]	Endangered	Species or species habitat may occur within area	In buffer area only
<a href="#">Grevillea humifusa</a> Spreading Grevillea [61182]	Endangered	Species or species habitat may occur within area	In buffer area only
<a href="#">Hakea megalosperma</a> Lesueur Hakea [10505]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Hemiandra gardneri</a> Red Snakebush [7945]	Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Leucopogon obtectus</a> Hidden Beard-heath [19614]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Macarthuria keigheryi</a> Keighery's Macarthuria [64930]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Patersonia spirifolia</a> Spiral-leaved Patersonia [83927]	Endangered	Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Ptychosema pusillum</a> Dwarf Pea [11268]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Spirogardnera rubescens</a> Spiral Bush [15667]	Endangered	Species or species habitat known to occur within area	In buffer area only
<a href="#">Thelymitra stellata</a> Star Sun-orchid [7060]	Endangered	Species or species habitat may occur within area	In feature area

REPTILE			
<a href="#">Egernia stokesii badia</a> Western Spiny-tailed Skink, Baudin Island Spiny-tailed Skink [64483]	Endangered	Species or species habitat may occur within area	In feature area

SHARK			
<a href="#">Pristis pristis</a> Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat may occur within area	In buffer area only

Listed Migratory Species <a href="#">[ Resource Information ]</a>			
Scientific Name	Threatened Category	Presence Text	Buffer Status
Migratory Marine Birds			
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area	In feature area

Migratory Marine Species			
<a href="#">Pristis pristis</a> Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat may occur within area	In buffer area only

Migratory Terrestrial Species			
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat may occur within area	In feature area

Migratory Wetlands Species			
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat may occur within area	In feature area



Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Vulnerable	Species or species habitat may occur within area	In buffer area only
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat may occur within area	In feature area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Pandion haliaetus</a> Osprey [952]		Species or species habitat known to occur within area	In buffer area only
<a href="#">Tringa nebularia</a> Common Greenshank, Greenshank [832]	Endangered	Species or species habitat likely to occur within area	In buffer area only

### Other Matters Protected by the EPBC Act

Commonwealth Lands <a href="#">[ Resource Information ]</a>		
The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.		
Commonwealth Land Name	State	Buffer Status
Defence		
Defence - LANCELIN - AIR SAFETY MARKER [50236]	WA	In buffer area only
Defence - LANCELIN TRAINING AREA [50119]	WA	In buffer area only
Unknown		
Commonwealth Land - [51489]	WA	In buffer area only
Commonwealth Land - [52118]	WA	In buffer area only

Commonwealth Land Name		State	Buffer Status
Commonwealth Land - [52115]		WA	In buffer area only
Commonwealth Land - [52217]		WA	In buffer area only
Commonwealth Heritage Places [ Resource Information ]			
Name		State	Buffer Status
Natural			
<a href="#">Lancelin Defence Training Area</a>		WA	In buffer area only
Listed Marine Species [ Resource Information ]			
Scientific Name		Threatened Category	Buffer Status
Bird			
<a href="#">Actitis hypoleucos</a>			
Common Sandpiper [59309]			Species or species habitat may occur within area In feature area
<a href="#">Apus pacificus</a>			
Fork-tailed Swift [678]			Species or species habitat likely to occur within area overfly marine area In feature area
<a href="#">Bubulcus ibis as Ardea ibis</a>			
Cattle Egret [66521]			Species or species habitat may occur within area overfly marine area In feature area
<a href="#">Calidris acuminata</a>			
Sharp-tailed Sandpiper [874]		Vulnerable	Species or species habitat may occur within area In feature area
<a href="#">Calidris canutus</a>			
Red Knot, Knot [855]		Vulnerable	Species or species habitat may occur within area overfly marine area In buffer area only
<a href="#">Calidris ferruginea</a>			
Curlew Sandpiper [856]		Critically Endangered	Species or species habitat may occur within area overfly marine area In feature area
<a href="#">Calidris melanotos</a>			
Pectoral Sandpiper [858]			Species or species habitat may occur within area overfly marine area In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Chalcites osculans as Chrysococcyx osculans</a> Black-eared Cuckoo [83425]		Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Haliaeetus leucogaster</a> White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area	In feature area
<a href="#">Merops ornatus</a> Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area	In feature area
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat may occur within area overfly marine area	In feature area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Pandion haliaetus</a> Osprey [952]		Species or species habitat known to occur within area	In buffer area only
<a href="#">Rostratula australis as Rostratula benghalensis (sensu lato)</a> Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area overfly marine area	In feature area
<a href="#">Thinornis cucullatus as Thinornis rubricollis</a> Hooded Plover, Hooded Dotterel [87735]		Species or species habitat known to occur within area overfly marine area	In buffer area only
<a href="#">Tringa nebularia</a> Common Greenshank, Greenshank [832]	Endangered	Species or species habitat likely to occur within area overfly marine area	In buffer area only

Extra Information

State and Territory Reserves			[ Resource Information ]
Protected Area Name	Reserve Type	State	Buffer Status
Badgingarra	National Park	WA	In buffer area only
Bashford	Nature Reserve	WA	In buffer area only
Boothendarra	Nature Reserve	WA	In buffer area only
Dandarangan	NRS Addition - Gazettal in Progress	WA	In buffer area only
Eneminga	Nature Reserve	WA	In buffer area only
Hill River	Nature Reserve	WA	In buffer area only
Jam Hill	Nature Reserve	WA	In buffer area only
Minyulo	Nature Reserve	WA	In feature area
Nambung	National Park	WA	In buffer area only
Namming	Nature Reserve	WA	In buffer area only
Twyata	Nature Reserve	WA	In buffer area only
Unnamed WA27993	Nature Reserve	WA	In buffer area only
Unnamed WA29719	Nature Reserve	WA	In buffer area only
Unnamed WA39571	Nature Reserve	WA	In buffer area only
Unnamed WA40916	Nature Reserve	WA	In buffer area only
Unnamed WA41986	Conservation Park	WA	In feature area
Unnamed WA44081	Nature Reserve	WA	In buffer area only
Wanagarren	Nature Reserve	WA	In buffer area only
Wongonderrah	Nature Reserve	WA	In buffer area only

Nationally Important Wetlands		[ Resource Information ]
Wetland Name	State	Buffer Status
<a href="#">Guraga Lake</a>	WA	In buffer area only
<a href="#">Lancelin Defence Training Area</a>	WA	In buffer area only

EPBC Act Referrals				[ Resource Information ]	
Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status	

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<a href="#">Atlas Mineral Sands Project</a>	2021/9056		Post-Approval	In buffer area only
<a href="#">Parron Wind Farm</a>	2024/10062		Referral Decision	In buffer area only
<a href="#">Waddi Wind Farm</a>	2023/09639		Assessment	In feature area
Controlled action				
<a href="#">Atlas Mineral Sands Mine</a>	2020/8813	Controlled Action	Completed	In buffer area only
<a href="#">Brand Highway Widening and Passing Lanes Project 34.83-164.3 SLK</a>	2017/7864	Controlled Action	Post-Approval	In feature area
<a href="#">Cooljarloo West Titanium Minerals mining Project, WA</a>	2013/6895	Controlled Action	Proposed Decision	In buffer area only
Not controlled action				
<a href="#">Construction of several passing lanes between Lancelin and Jurien Bay, WA</a>	2015/7509	Not Controlled Action	Completed	In buffer area only
<a href="#">Cooljarloo Mine Falcon Extension</a>	2007/3556	Not Controlled Action	Completed	In buffer area only
<a href="#">Cooljarloo Titanium Sand Mining</a>	2000/23	Not Controlled Action	Completed	In feature area
<a href="#">Development of the Badgingarra Wind Farm</a>	2008/4065	Not Controlled Action	Completed	In buffer area only
<a href="#">Development of the Dandaragan Wind Farms</a>	2011/6006	Not Controlled Action	Completed	In feature area
<a href="#">Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia</a>	2015/7522	Not Controlled Action	Completed	In feature area
<a href="#">Indian Ocean Drive Passing Lane and Widening 52-258 SLK</a>	2017/7884	Not Controlled Action	Completed	In buffer area only
<a href="#">Nilgen Wind Farm</a>	2009/4694	Not Controlled Action	Completed	In buffer area only
<a href="#">Northern Looping project, Karratha to Gingin</a>	2005/2251	Not Controlled Action	Completed	In buffer area only
<a href="#">Waddi Wind and Solar Farm, near Dandaragan, WA</a>	2018/8352	Not Controlled Action	Completed	In feature area
<a href="#">Walyearing 3D Seismic Survey, Cataby, WA</a>	2017/7982	Not Controlled Action	Completed	In feature area
Not controlled action (particular manner)				

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action (particular manner)				
<a href="#">Mineral Sands Mine</a>	2005/2001	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Transmission Line Rebuild and Extension</a>	2009/5105	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">UIL Energy 2D Seismic Survey, Perth Basin, WA</a>	2015/7554	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
Referral decision				
<a href="#">Badgingarra Wind Farm</a>	2007/3529	Referral Decision	Completed	In buffer area only
<a href="#">Raven 2D Seismic Acquisition Survey</a>	2020/8659	Referral Decision	Referral Publication	In buffer area only
<a href="#">Transmission Line Rebuild and Extension</a>	2009/4972	Referral Decision	Completed	In feature area



# 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](#)

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