

## Appendix A EPBC Act Protected Matters Reports

- **Report 1 Deposit C**
- **Report 2 Deposits X & W**
- **Report 3 Barge Loading Facility**
- **Report 4 Transshipping**



# 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.

Information is available about [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

Report created: 20/01/17 16:52:52

[Summary](#)

[Details](#)

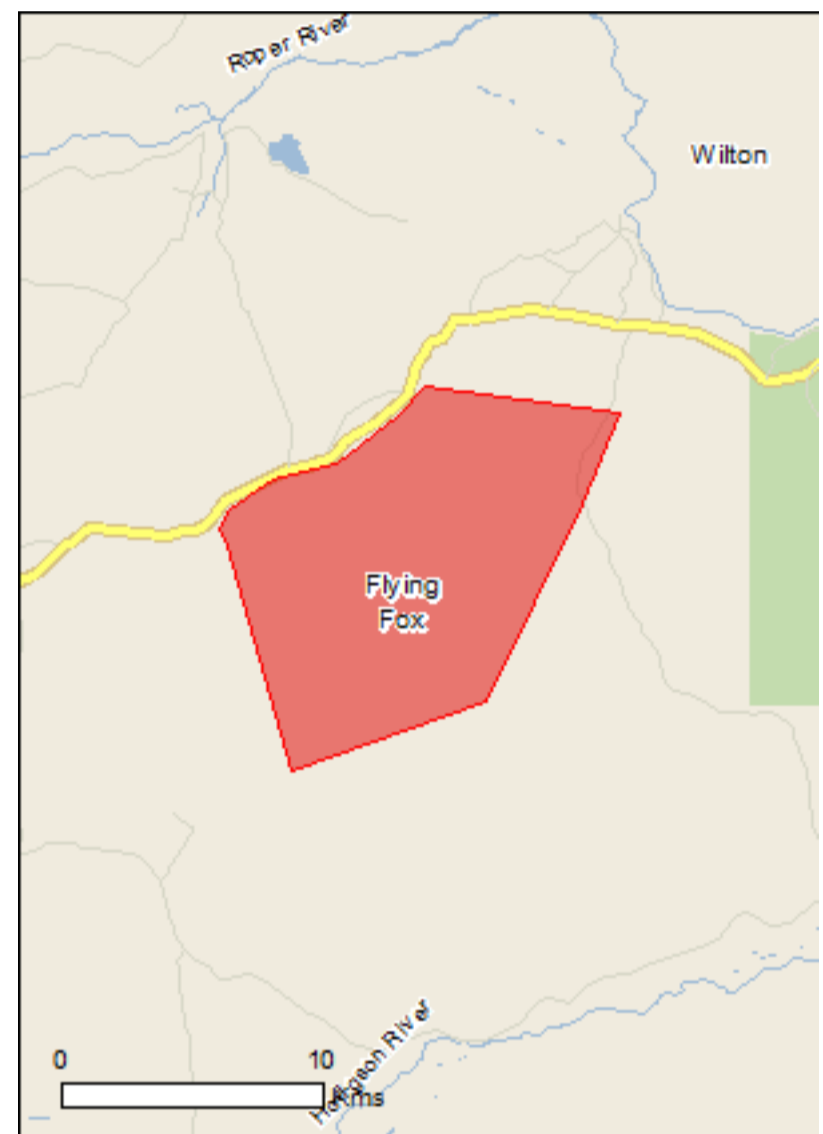
[Matters of NES](#)

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[Coordinates](#)

Buffer: 50.0Km



# 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](#).

<a href="#">World Heritage Properties:</a>	None
<a href="#">National Heritage Places:</a>	None
<a href="#">Wetlands of International Importance:</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>	1
<a href="#">Listed Threatened Species:</a>	26
<a href="#">Listed Migratory Species:</a>	25

## 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 <http://www.environment.gov.au/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 Land:</a>	1
<a href="#">Commonwealth Heritage Places:</a>	None
<a href="#">Listed Marine Species:</a>	26
<a href="#">Whales and Other Cetaceans:</a>	1
<a href="#">Critical Habitats:</a>	None
<a href="#">Commonwealth Reserves Terrestrial:</a>	None
<a href="#">Commonwealth Reserves Marine:</a>	None

## Extra Information

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

<a href="#">State and Territory Reserves:</a>	2
<a href="#">Regional Forest Agreements:</a>	None
<a href="#">Invasive Species:</a>	15
<a href="#">Nationally Important Wetlands:</a>	None
<a href="#">Key Ecological Features (Marine)</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.

Name	Status	Type of Presence
<a href="#">Arnhem Plateau Sandstone Shrubland Complex</a>	Endangered	Community may occur within area

### Listed Threatened Species

[\[ Resource Information \]](#)

Name	Status	Type of Presence
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#### Birds

<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
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<a href="#">Erythrotriorchis radiatus</a> Red Goshawk [942]	Vulnerable	Species or species habitat likely to occur within area
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<a href="#">Erythrura gouldiae</a> Gouldian Finch [413]	Endangered	Species or species habitat known to occur within area
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<a href="#">Falcunculus frontatus whitei</a> Crested Shrike-tit (northern), Northern Shrike-tit [26013]	Vulnerable	Species or species habitat likely to occur within area
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<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
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<a href="#">Rostratula australis</a> Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
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<a href="#">Tyto novaehollandiae kimberli</a> Masked Owl (northern) [26048]	Vulnerable	Species or species habitat likely to occur within area
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#### Mammals

<a href="#">Antechinus bellus</a> Fawn Antechinus [344]	Vulnerable	Species or species habitat may occur within area
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<a href="#">Conilurus penicillatus</a> Brush-tailed Rabbit-rat, Brush-tailed Tree-rat, Pakooma [132]	Vulnerable	Species or species habitat may occur within area
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<a href="#">Dasyurus hallucatus</a> Northern Quoll, Digul [331]	Endangered	Species or species habitat known to occur within area
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Name	Status	Type of Presence
<a href="#">Macroderma gigas</a> Ghost Bat [174]	Vulnerable	Breeding likely to occur within area
<a href="#">Macrotis lagotis</a> Greater Bilby [282]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Notomys aquilo</a> Northern Hopping-mouse, Woorrentinta [123]	Vulnerable	Species or species habitat may occur within area
<a href="#">Phascogale pirata</a> Northern Brush-tailed Phascogale [82954]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Saccolaimus saccolaimus nudicluniatus</a> Bare-rumped Sheath-tailed Bat, Bare-rumped Sheath-tail Bat [66889]	Vulnerable	Species or species habitat may occur within area

## Reptiles

<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Species or species habitat may occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat may occur within area
<a href="#">Elseya lavarackorum</a> Gulf Snapping Turtle [67197]	Endangered	Species or species habitat known to occur within area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Species or species habitat may occur within area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Species or species habitat may occur within area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area

## Sharks

<a href="#">Glyphis glyphis</a> Speartooth Shark [82453]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Pristis clavata</a> Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Pristis pristis</a> Largetooth Sawfish, Freshwater Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Pristis zijsron</a> Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area

## Listed Migratory Species

[ [Resource Information](#) ]

\* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
<b>Migratory Marine Birds</b>		
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species

Name	Threatened	Type of Presence
<b>Migratory Marine Species</b>		
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Species or species habitat may occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Crocodylus porosus</a> Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat may occur within area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Species or species habitat may occur within area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Species or species habitat may occur within area
<a href="#">Manta alfredi</a> Reef Manta Ray, Coastal Manta Ray, Inshore Manta Ray, Prince Alfred's Ray, Resident Manta Ray [84994]		Species or species habitat may occur within area
<a href="#">Manta birostris</a> Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		Species or species habitat may occur within area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Pristis clavata</a> Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Pristis pristis</a> Largetooth Sawfish, Freshwater Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Pristis zijsron</a> Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Sousa chinensis</a> Indo-Pacific Humpback Dolphin [50]		Species or species habitat may occur within area
<b>Migratory Terrestrial Species</b>		
<a href="#">Cecropis daurica</a> Red-rumped Swallow [80610]		Species or species habitat may occur within area
<a href="#">Cuculus optatus</a> Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat known to occur within area
<a href="#">Hirundo rustica</a> Barn Swallow [662]		Species or species habitat may occur within area
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat known to occur within area

Name	Threatened	Type of Presence
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		Species or species habitat may occur within area
<b>Migratory Wetlands Species</b>		
<a href="#">Acrocephalus orientalis</a> Oriental Reed-Warbler [59570]		Species or species habitat may occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Charadrius veredus</a> Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
<a href="#">Glareola maldivarum</a> Oriental Pratincole [840]		Species or species habitat may occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Pandion haliaetus</a> Osprey [952]		Species or species habitat known to occur within area

## Other Matters Protected by the EPBC Act

### Commonwealth Land [\[ Resource Information \]](#)

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.

Name
Commonwealth Land -

### Listed Marine Species [\[ Resource Information \]](#)

\* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
<b>Birds</b>		
<a href="#">Acrocephalus orientalis</a> Oriental Reed-Warbler [59570]		Species or species habitat may occur within area
<a href="#">Anseranas semipalmata</a> Magpie Goose [978]		Species or species habitat may occur within area
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<a href="#">Ardea alba</a> Great Egret, White Egret [59541]		Species or species habitat known to occur within area
<a href="#">Ardea ibis</a> Cattle Egret [59542]		Species or species habitat may occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area

Name	Threatened	Type of Presence
<a href="#">Charadrius veredus</a> Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
<a href="#">Cuculus saturatus</a> Oriental Cuckoo, Himalayan Cuckoo [710]		Species or species habitat known to occur within area
<a href="#">Glareola maldivarum</a> Oriental Pratincole [840]		Species or species habitat may occur within area
<a href="#">Haliaeetus leucogaster</a> White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
<a href="#">Hirundo daurica</a> Red-rumped Swallow [59480]		Species or species habitat may occur within area
<a href="#">Hirundo rustica</a> Barn Swallow [662]		Species or species habitat may occur within area
<a href="#">Merops ornatus</a> Rainbow Bee-eater [670]		Species or species habitat may occur within area
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat known to occur within area
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		Species or species habitat may occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Pandion haliaetus</a> Osprey [952]		Species or species habitat known to occur within area
<a href="#">Rostratula benghalensis (sensu lato)</a> Painted Snipe [889]	Endangered*	Species or species habitat likely to occur within area
<b>Reptiles</b>		
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Species or species habitat may occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Crocodylus johnstoni</a> Freshwater Crocodile, Johnston's Crocodile, Johnston's River Crocodile [1773]		Species or species habitat may occur within area
<a href="#">Crocodylus porosus</a> Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat may occur within area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Species or species habitat may occur within area

Name	Threatened	Type of Presence
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Species or species habitat may occur within area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area

### Whales and other Cetaceans [\[ Resource Information \]](#)

Name	Status	Type of Presence
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### Mammals

<a href="#">Sousa chinensis</a> Indo-Pacific Humpback Dolphin [50]		Species or species habitat may occur within area
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## Extra Information

### State and Territory Reserves [\[ Resource Information \]](#)

Name	State
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Limmen	NT
Wongalara	NT

### Invasive Species [\[ Resource Information \]](#)

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resources Audit, 2001.

Name	Status	Type of Presence
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### Frogs

Rhinella marina Cane Toad [83218]		Species or species habitat likely to occur within area
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### Mammals

Bos taurus Domestic Cattle [16]		Species or species habitat likely to occur within area
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Bubalus bubalis Water Buffalo, Swamp Buffalo [1]		Species or species habitat likely to occur within area
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Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
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Equus asinus Donkey, Ass [4]		Species or species habitat likely to occur within area
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Equus caballus Horse [5]		Species or species habitat likely to occur within area
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Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
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Rattus rattus Black Rat, Ship Rat [84]		Species or species
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Name	Status	Type of Presence
<p>Sus scrofa Pig [6]</p>		<p>habitat likely to occur within area</p> <p>Species or species habitat likely to occur within area</p>
<b>Plants</b>		
<p>Acacia nilotica subsp. indica Prickly Acacia [6196]</p>		<p>Species or species habitat may occur within area</p>
<p>Jatropha gossypifolia Cotton-leaved Physic-Nut, Bellyache Bush, Cotton-leaf Physic Nut, Cotton-leaf Jatropha, Black Physic Nut [7507]</p>		<p>Species or species habitat likely to occur within area</p>
<p>Mimosa pigra Mimosa, Giant Mimosa, Giant Sensitive Plant, Thorny Sensitive Plant, Black Mimosa, Catclaw Mimosa, Bashful Plant [11223]</p>		<p>Species or species habitat likely to occur within area</p>
<p>Parkinsonia aculeata Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse Bean [12301]</p>		<p>Species or species habitat likely to occur within area</p>
<p>Vachellia nilotica Prickly Acacia, Blackthorn, Prickly Mimosa, Black Piquant, Babul [84351]</p>		<p>Species or species habitat likely to occur within area</p>
<b>Reptiles</b>		
<p>Hemidactylus frenatus Asian House Gecko [1708]</p>		<p>Species or species habitat likely to occur within area</p>

# 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 and National Heritage properties, Wetlands of International and National 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.

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

Where very little information is available for 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 reliable distribution mapping methods are used to update these distributions as time permits.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

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.

# Coordinates

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# 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.



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Report created: 20/01/17 16:42:51

[Summary](#)

[Details](#)

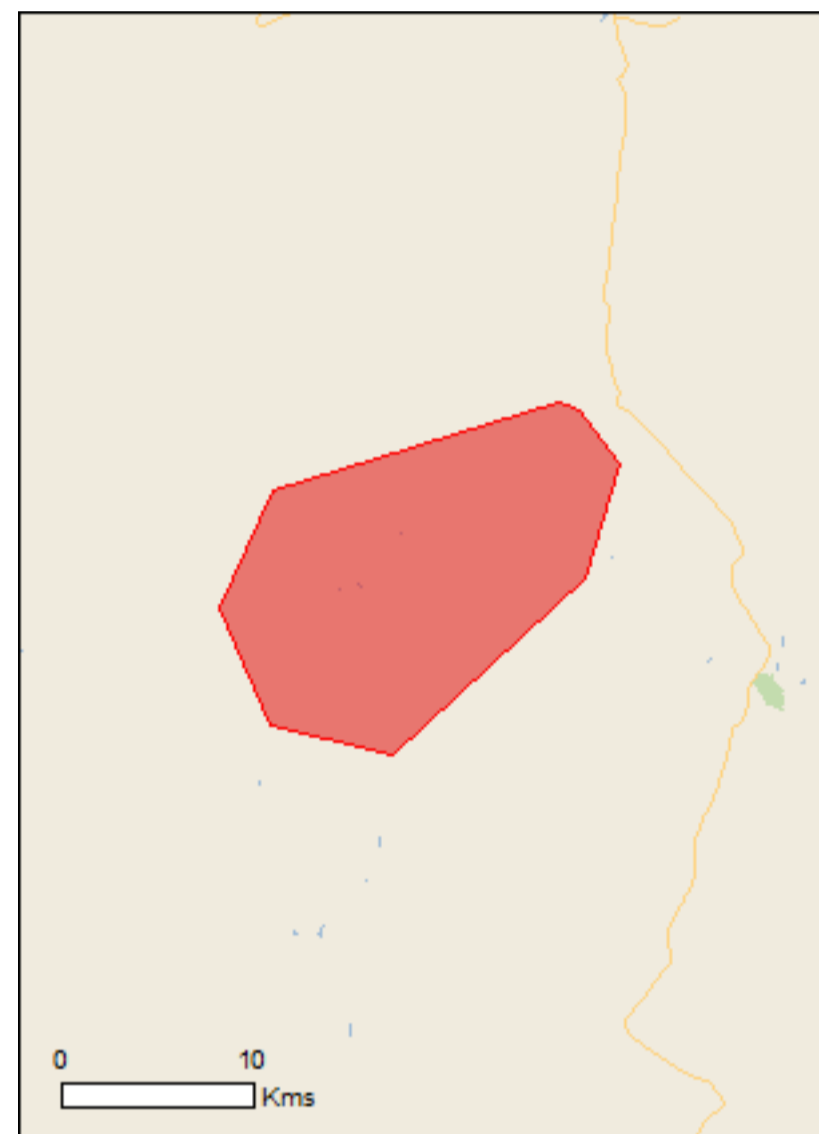
[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2010

[Coordinates](#)

Buffer: 50.0Km



# 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](#).

<a href="#">World Heritage Properties:</a>	None
<a href="#">National Heritage Places:</a>	None
<a href="#">Wetlands of International Importance:</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>	None
<a href="#">Listed Threatened Species:</a>	17
<a href="#">Listed Migratory Species:</a>	13

## 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.

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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 Land:</a>	None
<a href="#">Commonwealth Heritage Places:</a>	None
<a href="#">Listed Marine Species:</a>	19
<a href="#">Whales and Other Cetaceans:</a>	None
<a href="#">Critical Habitats:</a>	None
<a href="#">Commonwealth Reserves Terrestrial:</a>	None
<a href="#">Commonwealth Reserves Marine:</a>	None

## Extra Information

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

<a href="#">State and Territory Reserves:</a>	None
<a href="#">Regional Forest Agreements:</a>	None
<a href="#">Invasive Species:</a>	20
<a href="#">Nationally Important Wetlands:</a>	None
<a href="#">Key Ecological Features (Marine)</a>	None

# Details

## Matters of National Environmental Significance

Listed Threatened Species		[ Resource Information ]
Name	Status	Type of Presence
<b>Birds</b>		
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Erythrotriorchis radiatus</a> Red Goshawk [942]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Erythrura gouldiae</a> Gouldian Finch [413]	Endangered	Species or species habitat known to occur within area
<a href="#">Falcunculus frontatus whitei</a> Crested Shrike-tit (northern), Northern Shrike-tit [26013]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Grantiella picta</a> Painted Honeyeater [470]	Vulnerable	Species or species habitat may occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Rostratula australis</a> Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area
<a href="#">Tyto novaehollandiae kimberli</a> Masked Owl (northern) [26048]	Vulnerable	Species or species habitat likely to occur within area
<b>Mammals</b>		
<a href="#">Conilurus penicillatus</a> Brush-tailed Rabbit-rat, Brush-tailed Tree-rat, Pakooma [132]	Vulnerable	Species or species habitat may occur within area
<a href="#">Dasyurus hallucatus</a> Northern Quoll, Digul [331]	Endangered	Species or species habitat likely to occur within area
<a href="#">Macroderma gigas</a> Ghost Bat [174]	Vulnerable	Breeding likely to occur within area
<a href="#">Macrotis lagotis</a> Greater Bilby [282]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Notomys aquilo</a> Northern Hopping-mouse, Woorrentinta [123]	Vulnerable	Species or species

Name	Status	Type of Presence
<a href="#">Phascogale pirata</a> Northern Brush-tailed Phascogale [82954]	Vulnerable	habitat may occur within area Species or species habitat may occur within area
<a href="#">Saccolaimus saccolaimus nudicluniatus</a> Bare-rumped Sheath-tailed Bat, Bare-rumped Sheath-tail Bat [66889]	Vulnerable	Species or species habitat may occur within area
<b>Reptiles</b>		
<a href="#">Elseya lavarackorum</a> Gulf Snapping Turtle [67197]	Endangered	Species or species habitat known to occur within area
<b>Sharks</b>		
<a href="#">Pristis pristis</a> Largetooth Sawfish, Freshwater Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat known to occur within area
<b>Listed Migratory Species</b>		<a href="#">[ Resource Information ]</a>
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
<b>Migratory Marine Birds</b>		
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<b>Migratory Marine Species</b>		
<a href="#">Crocodylus porosus</a> Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area
<a href="#">Pristis pristis</a> Largetooth Sawfish, Freshwater Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat known to occur within area
<b>Migratory Terrestrial Species</b>		
<a href="#">Cecropis daurica</a> Red-rumped Swallow [80610]		Species or species habitat may occur within area
<a href="#">Cuculus optatus</a> Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat may occur within area
<a href="#">Hirundo rustica</a> Barn Swallow [662]		Species or species habitat may occur within area
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat may occur within area
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		Species or species habitat may occur within area
<b>Migratory Wetlands Species</b>		
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Charadrius veredus</a> Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
<a href="#">Glareola maldivarum</a> Oriental Pratincole [840]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Pandion haliaetus</a> Osprey [952]		Species or species habitat likely to occur within area

## Other Matters Protected by the EPBC Act

### Listed Marine Species [\[ Resource Information \]](#)

\* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
<b>Birds</b>		
<a href="#">Anseranas semipalmata</a> Magpie Goose [978]		Species or species habitat may occur within area
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<a href="#">Ardea alba</a> Great Egret, White Egret [59541]		Species or species habitat known to occur within area
<a href="#">Ardea ibis</a> Cattle Egret [59542]		Species or species habitat may occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Charadrius veredus</a> Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
<a href="#">Cuculus saturatus</a> Oriental Cuckoo, Himalayan Cuckoo [710]		Species or species habitat may occur within area
<a href="#">Glareola maldivarum</a> Oriental Pratincole [840]		Species or species habitat may occur within area
<a href="#">Haliaeetus leucogaster</a> White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
<a href="#">Hirundo daurica</a> Red-rumped Swallow [59480]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
<a href="#">Hirundo rustica</a> Barn Swallow [662]		Species or species habitat may occur within area
<a href="#">Merops ornatus</a> Rainbow Bee-eater [670]		Species or species habitat may occur within area
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat may occur within area
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		Species or species habitat may occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Pandion haliaetus</a> Osprey [952]		Species or species habitat likely to occur within area
<a href="#">Rostratula benghalensis (sensu lato)</a> Painted Snipe [889]	Endangered*	Species or species habitat may occur within area

## Reptiles

<a href="#">Crocodylus johnstoni</a> Freshwater Crocodile, Johnston's Crocodile, Johnston's River Crocodile [1773]		Species or species habitat may occur within area
<a href="#">Crocodylus porosus</a> Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area

## Extra Information

### Invasive Species

[\[ Resource Information \]](#)

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resources Audit, 2001.

Name	Status	Type of Presence
<b>Birds</b>		
<a href="#">Columba livia</a> Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
<b>Frogs</b>		
<a href="#">Rhinella marina</a> Cane Toad [83218]		Species or species habitat likely to occur within area

## Mammals

Name	Status	Type of Presence
Bos taurus Domestic Cattle [16]		Species or species habitat likely to occur within area
Bubalus bubalis Water Buffalo, Swamp Buffalo [1]		Species or species habitat likely to occur within area
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Equus asinus Donkey, Ass [4]		Species or species habitat likely to occur within area
Equus caballus Horse [5]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area
Rattus rattus Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
Sus scrofa Pig [6]		Species or species habitat likely to occur within area
<b>Plants</b>		
Acacia nilotica subsp. indica Prickly Acacia [6196]		Species or species habitat may occur within area
Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]		Species or species habitat likely to occur within area
Jatropha gossypifolia Cotton-leaved Physic-Nut, Bellyache Bush, Cotton-leaf Physic Nut, Cotton-leaf Jatropha, Black Physic Nut [7507]		Species or species habitat likely to occur within area
Lantana camara Lantana, Common Lantana, Kamara Lantana, Large-leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892]		Species or species habitat likely to occur within area
Parkinsonia aculeata Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse Bean [12301]		Species or species habitat likely to occur within area
Parthenium hysterophorus Parthenium Weed, Bitter Weed, Carrot Grass, False Ragweed [19566]		Species or species habitat may occur within area
Prosopis spp. Mesquite, Algaroba [68407]		Species or species habitat likely to occur within area
Vachellia nilotica Prickly Acacia, Blackthorn, Prickly Mimosa, Black Piquant, Babul [84351]		Species or species habitat likely to occur within area
<b>Reptiles</b>		
Hemidactylus frenatus Asian House Gecko [1708]		Species or species

Name	Status	Type of Presence
		habitat likely to occur within area

# 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 and National Heritage properties, Wetlands of International and National 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.

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

Where very little information is available for 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 reliable distribution mapping methods are used to update these distributions as time permits.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

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.

# Coordinates

-15.10136 133.993662,-15.126549 134.012888,-15.177676 133.996408,-15.257184 133.907144,-15.243935 133.849466,-15.190929 133.82612,-15.137911 133.850839,-15.098138 133.984049,-15.098138 133.984049,-15.10136 133.993662

# 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.



# 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.

Information is available about [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

Report created: 20/01/17 16:55:52

[Summary](#)

[Details](#)

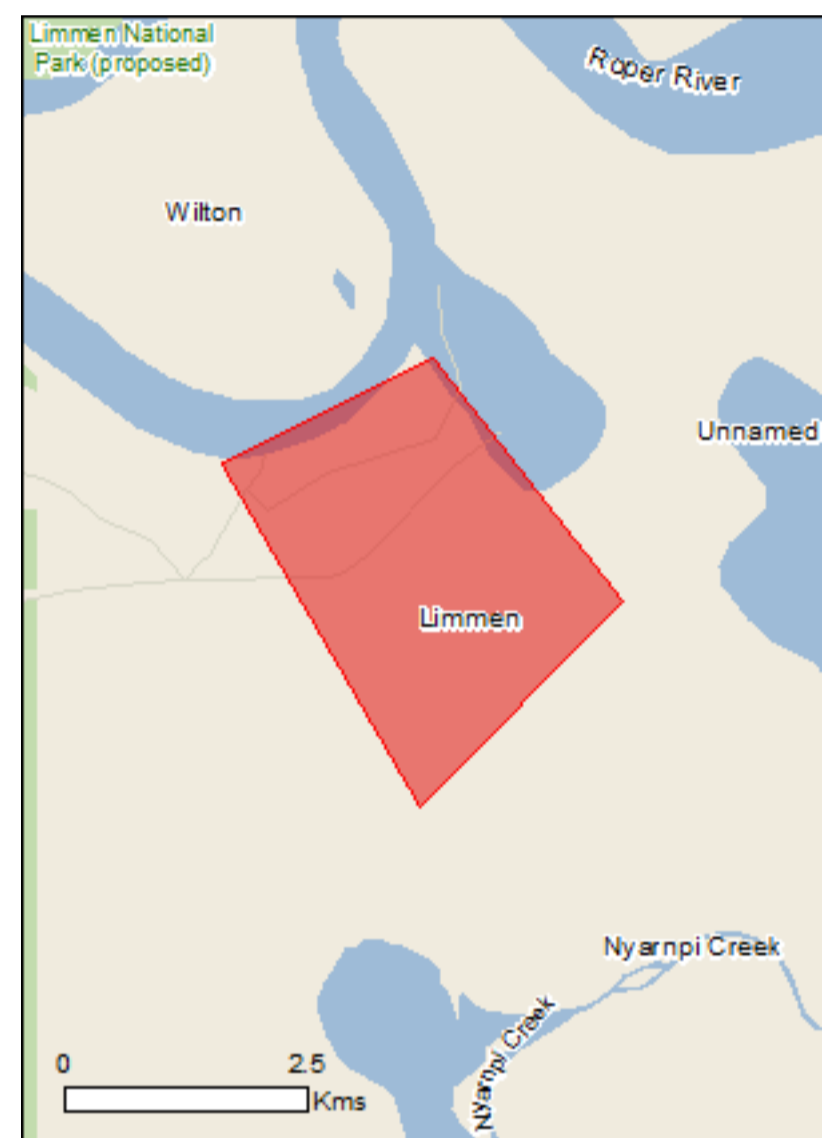
[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2010

[Coordinates](#)

Buffer: 50.0Km



# 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](#).

<a href="#">World Heritage Properties:</a>	None
<a href="#">National Heritage Places:</a>	None
<a href="#">Wetlands of International Importance:</a>	None
<a href="#">Great Barrier Reef Marine Park:</a>	None
<a href="#">Commonwealth Marine Area:</a>	1
<a href="#">Listed Threatened Ecological Communities:</a>	None
<a href="#">Listed Threatened Species:</a>	34
<a href="#">Listed Migratory Species:</a>	47

## 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 <http://www.environment.gov.au/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 Land:</a>	1
<a href="#">Commonwealth Heritage Places:</a>	None
<a href="#">Listed Marine Species:</a>	81
<a href="#">Whales and Other Cetaceans:</a>	11
<a href="#">Critical Habitats:</a>	None
<a href="#">Commonwealth Reserves Terrestrial:</a>	None
<a href="#">Commonwealth Reserves Marine:</a>	1

## Extra Information

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

<a href="#">State and Territory Reserves:</a>	1
<a href="#">Regional Forest Agreements:</a>	None
<a href="#">Invasive Species:</a>	13
<a href="#">Nationally Important Wetlands:</a>	1
<a href="#">Key Ecological Features (Marine)</a>	1

# Details

## Matters of National Environmental Significance

### Commonwealth Marine Area

[\[ Resource Information \]](#)

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

#### Name

EEZ and Territorial Sea

### Marine Regions

[\[ Resource Information \]](#)

If you are planning to undertake action in an area in or close to the Commonwealth Marine Area, and a marine bioregional plan has been prepared for the Commonwealth Marine Area in that area, the marine bioregional plan may inform your decision as to whether to refer your proposed action under the EPBC Act.

#### Name

[North](#)

### Listed Threatened Species

[\[ Resource Information \]](#)

Name	Status	Type of Presence
<b>Birds</b>		
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat likely to occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Calidris tenuirostris</a> Great Knot [862]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#">Erythrotriorchis radiatus</a> Red Goshawk [942]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Erythrura gouldiae</a> Gouldian Finch [413]	Endangered	Species or species habitat known to occur within area
<a href="#">Falcunculus frontatus whitei</a> Crested Shrike-tit (northern), Northern Shrike-tit [26013]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Limosa lapponica baueri</a> Bar-tailed Godwit (baueri), Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat may occur within area
<a href="#">Limosa lapponica menzbieri</a> Northern Siberian Bar-tailed Godwit, Bar-tailed Godwit (menzbieri) [86432]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur

Name	Status	Type of Presence within area
<a href="#">Rostratula australis</a> Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
<a href="#">Tyto novaehollandiae kimberli</a> Masked Owl (northern) [26048]	Vulnerable	Species or species habitat likely to occur within area
<b>Mammals</b>		
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Species or species habitat may occur within area
<a href="#">Conilurus penicillatus</a> Brush-tailed Rabbit-rat, Brush-tailed Tree-rat, Pakooma [132]	Vulnerable	Species or species habitat may occur within area
<a href="#">Dasyurus hallucatus</a> Northern Quoll, Digul [331]	Endangered	Species or species habitat likely to occur within area
<a href="#">Macroderma gigas</a> Ghost Bat [174]	Vulnerable	Breeding likely to occur within area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]	Vulnerable	Species or species habitat may occur within area
<a href="#">Notomys aquilo</a> Northern Hopping-mouse, Woorrentinta [123]	Vulnerable	Species or species habitat may occur within area
<a href="#">Phascogale pirata</a> Northern Brush-tailed Phascogale [82954]	Vulnerable	Species or species habitat may occur within area
<a href="#">Saccolaimus saccolaimus nudicluniatus</a> Bare-rumped Sheath-tailed Bat, Bare-rumped Sheathtail Bat [66889]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Xeromys myoides</a> Water Mouse, False Water Rat, Yirrkoo [66]	Vulnerable	Species or species habitat may occur within area
<b>Reptiles</b>		
<a href="#">Acanthophis hawkei</a> Plains Death Adder [83821]	Vulnerable	Species or species habitat may occur within area
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Elseya lavarackorum</a> Gulf Snapping Turtle [67197]	Endangered	Species or species habitat known to occur within area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Foraging, feeding or related behaviour known

Name	Status	Type of Presence
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	to occur within area Foraging, feeding or related behaviour known to occur within area
<b>Sharks</b>		
<a href="#">Carcharodon carcharias</a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area
<a href="#">Glyphis glyphis</a> Speartooth Shark [82453]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Pristis clavata</a> Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Pristis pristis</a> Largetooth Sawfish, Freshwater Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Pristis zijsron</a> Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Rhincodon typus</a> Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area

#### Listed Migratory Species

[\[ Resource Information \]](#)

\* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
<b>Migratory Marine Birds</b>		
<a href="#">Anous stolidus</a> Common Noddy [825]		Species or species habitat may occur within area
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<a href="#">Calonectris leucomelas</a> Streaked Shearwater [1077]		Species or species habitat may occur within area
<a href="#">Fregata ariel</a> Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
<a href="#">Fregata minor</a> Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat may occur within area
<a href="#">Sterna albifrons</a> Little Tern [813]		Species or species habitat may occur within area
<a href="#">Sterna anaethetus</a> Bridled Tern [814]		Breeding known to occur within area
<a href="#">Sterna dougallii</a> Roseate Tern [817]		Breeding known to occur within area
<a href="#">Sterna sumatrana</a> Black-naped Tern [800]		Breeding known to occur within area

#### Migratory Marine Species

<a href="#">Anoxypristis cuspidata</a> Narrow Sawfish, Knifetooth Sawfish [68448]		Species or species habitat may occur within
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Name	Threatened	Type of Presence area
<a href="#">Balaenoptera edeni</a> Bryde's Whale [35]		Species or species habitat may occur within area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Species or species habitat may occur within area
<a href="#">Carcharodon carcharias</a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#">Crocodylus porosus</a> Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Dugong dugon</a> Dugong [28]		Species or species habitat known to occur within area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Foraging, feeding or related behaviour known to occur within area
<a href="#">Manta alfredi</a> Reef Manta Ray, Coastal Manta Ray, Inshore Manta Ray, Prince Alfred's Ray, Resident Manta Ray [84994]		Species or species habitat may occur within area
<a href="#">Manta birostris</a> Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		Species or species habitat may occur within area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]	Vulnerable	Species or species habitat may occur within area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#">Orcaella brevirostris</a> Irrawaddy Dolphin [45]		Species or species habitat known to occur within area
<a href="#">Orcinus orca</a> Killer Whale, Orca [46]		Species or species habitat may occur within area
<a href="#">Pristis clavata</a> Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Pristis pristis</a> Largetooth Sawfish, Freshwater Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat known to occur within area

Name	Threatened	Type of Presence
<a href="#">Pristis zijsron</a> Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Rhincodon typus</a> Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
<a href="#">Sousa chinensis</a> Indo-Pacific Humpback Dolphin [50]		Species or species habitat known to occur within area
<b>Migratory Terrestrial Species</b>		
<a href="#">Cecropis daurica</a> Red-rumped Swallow [80610]		Species or species habitat may occur within area
<a href="#">Cuculus optatus</a> Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat may occur within area
<a href="#">Hirundo rustica</a> Barn Swallow [662]		Species or species habitat may occur within area
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat may occur within area
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		Species or species habitat may occur within area
<b>Migratory Wetlands Species</b>		
<a href="#">Acrocephalus orientalis</a> Oriental Reed-Warbler [59570]		Species or species habitat may occur within area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat likely to occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Calidris tenuirostris</a> Great Knot [862]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#">Charadrius veredus</a> Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
<a href="#">Glareola maldivarum</a> Oriental Pratincole [840]		Species or species habitat may occur within area
<a href="#">Limosa lapponica</a> Bar-tailed Godwit [844]		Species or species habitat known to occur within area
<a href="#">Limosa limosa</a> Black-tailed Godwit [845]		Species or species habitat likely to occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Pandion haliaetus</a> Osprey [952]		Species or species habitat known to occur

Name	Threatened	Type of Presence within area
<a href="#">Thalasseus bergii</a> Crested Tern [83000]		Breeding known to occur within area

## Other Matters Protected by the EPBC Act

### Commonwealth Land [\[ Resource Information \]](#)

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.

Name
Commonwealth Land -

### Listed Marine Species [\[ Resource Information \]](#)

\* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
<b>Birds</b>		
<a href="#">Acrocephalus orientalis</a> Oriental Reed-Warbler [59570]		Species or species habitat may occur within area
<a href="#">Anous stolidus</a> Common Noddy [825]		Species or species habitat may occur within area
<a href="#">Anseranas semipalmata</a> Magpie Goose [978]		Species or species habitat may occur within area
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<a href="#">Ardea alba</a> Great Egret, White Egret [59541]		Species or species habitat known to occur within area
<a href="#">Ardea ibis</a> Cattle Egret [59542]		Species or species habitat may occur within area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat likely to occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Calidris tenuirostris</a> Great Knot [862]	Critically Endangered	Species or species habitat likely to occur

Name	Threatened	Type of Presence within area
<a href="#">Calonectris leucomelas</a> Streaked Shearwater [1077]		Species or species habitat may occur within area
<a href="#">Charadrius veredus</a> Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
<a href="#">Cuculus saturatus</a> Oriental Cuckoo, Himalayan Cuckoo [710]		Species or species habitat may occur within area
<a href="#">Fregata ariel</a> Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
<a href="#">Fregata minor</a> Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat may occur within area
<a href="#">Glareola maldivarum</a> Oriental Pratincole [840]		Species or species habitat may occur within area
<a href="#">Haliaeetus leucogaster</a> White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
<a href="#">Hirundo daurica</a> Red-rumped Swallow [59480]		Species or species habitat may occur within area
<a href="#">Hirundo rustica</a> Barn Swallow [662]		Species or species habitat may occur within area
<a href="#">Limosa lapponica</a> Bar-tailed Godwit [844]		Species or species habitat known to occur within area
<a href="#">Limosa limosa</a> Black-tailed Godwit [845]		Species or species habitat likely to occur within area
<a href="#">Merops ornatus</a> Rainbow Bee-eater [670]		Species or species habitat may occur within area
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat may occur within area
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		Species or species habitat may occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Pandion haliaetus</a> Osprey [952]		Species or species habitat known to occur within area
<a href="#">Rostratula benghalensis (sensu lato)</a> Painted Snipe [889]	Endangered*	Species or species habitat likely to occur within area
<a href="#">Sterna albifrons</a> Little Tern [813]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
<a href="#">Sterna anaethetus</a> Bridled Tern [814]		Breeding known to occur within area
<a href="#">Sterna bengalensis</a> Lesser Crested Tern [815]		Breeding known to occur within area
<a href="#">Sterna bergii</a> Crested Tern [816]		Breeding known to occur within area
<a href="#">Sterna dougallii</a> Roseate Tern [817]		Breeding known to occur within area
<a href="#">Sterna sumatrana</a> Black-naped Tern [800]		Breeding known to occur within area
<b>Fish</b>		
<a href="#">Campichthys tricarinatus</a> Three-keel Pipefish [66192]		Species or species habitat may occur within area
<a href="#">Choeroichthys brachysoma</a> Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194]		Species or species habitat may occur within area
<a href="#">Choeroichthys suillus</a> Pig-snouted Pipefish [66198]		Species or species habitat may occur within area
<a href="#">Corythoichthys amplexus</a> Fijian Banded Pipefish, Brown-banded Pipefish [66199]		Species or species habitat may occur within area
<a href="#">Corythoichthys flavofasciatus</a> Reticulate Pipefish, Yellow-banded Pipefish, Network Pipefish [66200]		Species or species habitat may occur within area
<a href="#">Doryrhamphus excisus</a> Bluestripe Pipefish, Indian Blue-stripe Pipefish, Pacific Blue-stripe Pipefish [66211]		Species or species habitat may occur within area
<a href="#">Doryrhamphus janssi</a> Cleaner Pipefish, Janss' Pipefish [66212]		Species or species habitat may occur within area
<a href="#">Festucalex cinctus</a> Girdled Pipefish [66214]		Species or species habitat may occur within area
<a href="#">Halicampus brocki</a> Brock's Pipefish [66219]		Species or species habitat may occur within area
<a href="#">Halicampus grayi</a> Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area
<a href="#">Halicampus spinirostris</a> Spiny-snout Pipefish [66225]		Species or species habitat may occur within area
<a href="#">Haliichthys taeniophorus</a> Ribboned Pipehorse, Ribboned Seadragon [66226]		Species or species habitat may occur within area
<a href="#">Hippichthys cyanospilos</a> Blue-speckled Pipefish, Blue-spotted Pipefish [66228]		Species or species habitat may occur within area
<a href="#">Hippichthys penicillus</a> Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
<a href="#">Hippocampus histrix</a> Spiny Seahorse, Thorny Seahorse [66236]		Species or species habitat may occur within area
<a href="#">Hippocampus kuda</a> Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within area
<a href="#">Hippocampus planifrons</a> Flat-face Seahorse [66238]		Species or species habitat may occur within area
<a href="#">Hippocampus spinosissimus</a> Hedgehog Seahorse [66239]		Species or species habitat may occur within area
<a href="#">Micrognathus micronotopterus</a> Tidepool Pipefish [66255]		Species or species habitat may occur within area
<a href="#">Solegnathus hardwickii</a> Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area
<a href="#">Trachyrhamphus bicoarctatus</a> Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area
<a href="#">Trachyrhamphus longirostris</a> Straightstick Pipefish, Long-nosed Pipefish, Straight Stick Pipefish [66281]		Species or species habitat may occur within area
<b>Mammals</b>		
<a href="#">Dugong dugon</a> Dugong [28]		Species or species habitat known to occur within area
<b>Reptiles</b>		
<a href="#">Acalyptophis peronii</a> Horned Seasnake [1114]		Species or species habitat may occur within area
<a href="#">Aipysurus duboisii</a> Dubois' Seasnake [1116]		Species or species habitat may occur within area
<a href="#">Aipysurus eydouxii</a> Spine-tailed Seasnake [1117]		Species or species habitat may occur within area
<a href="#">Aipysurus laevis</a> Olive Seasnake [1120]		Species or species habitat may occur within area
<a href="#">Astrotia stokesii</a> Stokes' Seasnake [1122]		Species or species habitat may occur within area
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#">Crocodylus johnstoni</a> Freshwater Crocodile, Johnston's Crocodile, Johnston's River Crocodile [1773]		Species or species habitat may occur within area
<a href="#">Crocodylus porosus</a> Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur

Name	Threatened	Type of Presence
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	within area Foraging, feeding or related behaviour likely to occur within area
<a href="#">Disteira kingii</a> Spectacled Seasnake [1123]		Species or species habitat may occur within area
<a href="#">Disteira major</a> Olive-headed Seasnake [1124]		Species or species habitat may occur within area
<a href="#">Enhydrina schistosa</a> Beaked Seasnake [1126]		Species or species habitat may occur within area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#">Hydrelaps darwiniensis</a> Black-ringed Seasnake [1100]		Species or species habitat may occur within area
<a href="#">Hydrophis atriceps</a> Black-headed Seasnake [1101]		Species or species habitat may occur within area
<a href="#">Hydrophis elegans</a> Elegant Seasnake [1104]		Species or species habitat may occur within area
<a href="#">Hydrophis inornatus</a> Plain Seasnake [1107]		Species or species habitat may occur within area
<a href="#">Hydrophis mcdowelli</a> null [25926]		Species or species habitat may occur within area
<a href="#">Hydrophis ornatus</a> Spotted Seasnake, Ornate Reef Seasnake [1111]		Species or species habitat may occur within area
<a href="#">Hydrophis pacificus</a> Large-headed Seasnake, Pacific Seasnake [1112]		Species or species habitat may occur within area
<a href="#">Lapemis hardwickii</a> Spine-bellied Seasnake [1113]		Species or species habitat may occur within area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Foraging, feeding or related behaviour known to occur within area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#">Parahydrophis mertoni</a> Northern Mangrove Seasnake [1090]		Species or species habitat may occur within area
<a href="#">Pelamis platurus</a> Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area

## Whales and other Cetaceans

[ [Resource Information](#) ]

Name	Status	Type of Presence
Mammals		

Name	Status	Type of Presence
<a href="#">Balaenoptera edeni</a> Bryde's Whale [35]		Species or species habitat may occur within area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Species or species habitat may occur within area
<a href="#">Delphinus delphis</a> Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
<a href="#">Grampus griseus</a> Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]	Vulnerable	Species or species habitat may occur within area
<a href="#">Orcaella brevirostris</a> Irrawaddy Dolphin [45]		Species or species habitat known to occur within area
<a href="#">Orcinus orca</a> Killer Whale, Orca [46]		Species or species habitat may occur within area
<a href="#">Sousa chinensis</a> Indo-Pacific Humpback Dolphin [50]		Species or species habitat known to occur within area
<a href="#">Stenella attenuata</a> Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area
<a href="#">Tursiops aduncus</a> Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area
<a href="#">Tursiops truncatus s. str.</a> Bottlenose Dolphin [68417]		Species or species habitat may occur within area

## Commonwealth Reserves Marine [\[ Resource Information \]](#)

Name	Label
Limmen	Multiple Use Zone (IUCN VI)

## Extra Information

### State and Territory Reserves [\[ Resource Information \]](#)

Name	State
Limmen	NT

### Invasive Species [\[ Resource Information \]](#)

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resources Audit, 2001.

Name	Status	Type of Presence
<b>Frogs</b>		
Rhinella marina Cane Toad [83218]		Species or species

Name	Status	Type of Presence
habitat likely to occur within area		
<b>Mammals</b>		
Bos taurus Domestic Cattle [16]		Species or species habitat likely to occur within area
Bubalus bubalis Water Buffalo, Swamp Buffalo [1]		Species or species habitat likely to occur within area
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Equus asinus Donkey, Ass [4]		Species or species habitat likely to occur within area
Equus caballus Horse [5]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Sus scrofa Pig [6]		Species or species habitat likely to occur within area

<b>Plants</b>		
Acacia nilotica subsp. indica Prickly Acacia [6196]		Species or species habitat may occur within area
Jatropha gossypifolia Cotton-leaved Physic-Nut, Bellyache Bush, Cotton-leaf Physic Nut, Cotton-leaf Jatropha, Black Physic Nut [7507]		Species or species habitat likely to occur within area
Mimosa pigra Mimosa, Giant Mimosa, Giant Sensitive Plant, Thorny Sensitive Plant, Black Mimosa, Catclaw Mimosa, Bashful Plant [11223]		Species or species habitat likely to occur within area
Parkinsonia aculeata Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse Bean [12301]		Species or species habitat likely to occur within area
Parthenium hysterophorus Parthenium Weed, Bitter Weed, Carrot Grass, False Ragweed [19566]		Species or species habitat may occur within area

<b>Nationally Important Wetlands</b>		<a href="#">[ Resource Information ]</a>
Name		State
<a href="#">Limmen Bight (Port Roper) Tidal Wetlands System</a>		NT

<b>Key Ecological Features (Marine)</b>		<a href="#">[ Resource Information ]</a>
Key Ecological Features are the parts of the marine ecosystem that are considered to be important for the biodiversity or ecosystem functioning and integrity of the Commonwealth Marine Area.		

Name	Region
<a href="#">Gulf of Carpentaria coastal zone</a>	North

# 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 and National Heritage properties, Wetlands of International and National 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.

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

Where very little information is available for 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 reliable distribution mapping methods are used to update these distributions as time permits.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

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.

# Coordinates

-14.756038 135.315434,-14.746741 135.335003,-14.768514 135.352612,-14.786772 135.333729,-14.75623 135.315533,-14.75623 135.315533,-14.756038 135.315434

# 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.



# 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.

Information is available about [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

Report created: 01/03/17 15:49:18

[Summary](#)

[Details](#)

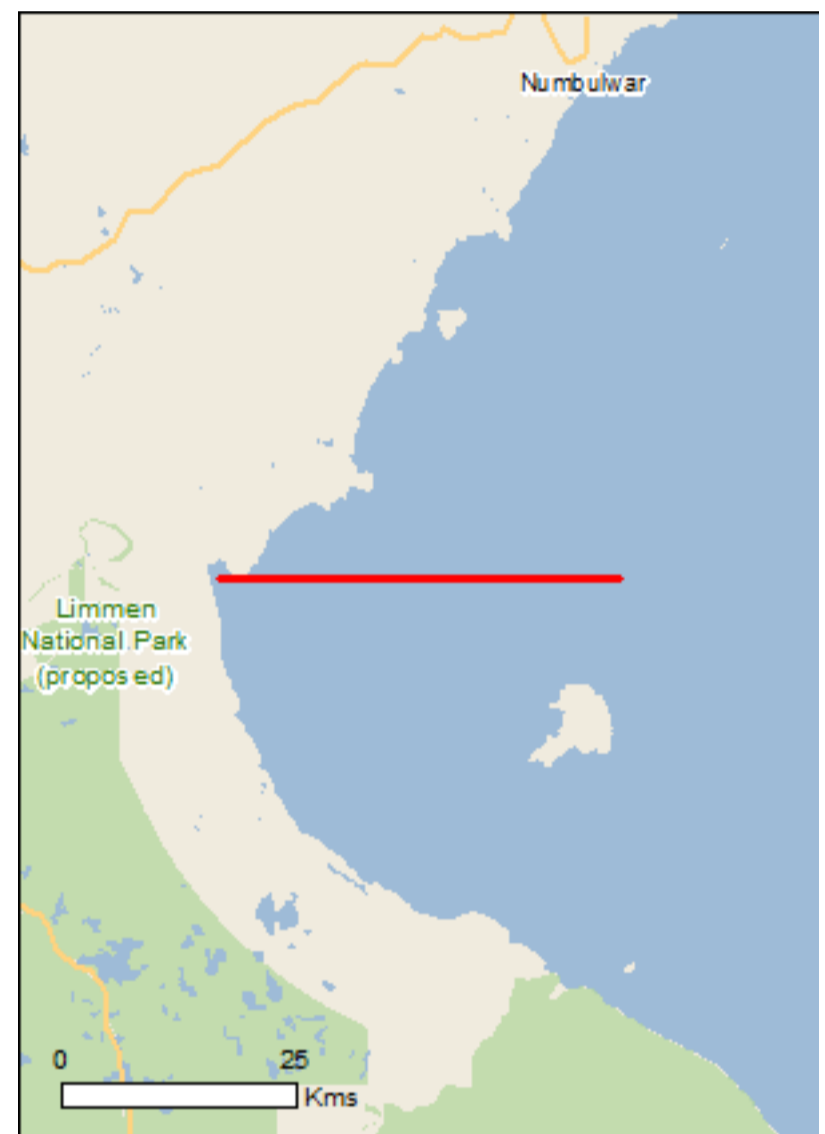
[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2010

[Coordinates](#)

Buffer: 50.0Km



# 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](#).

<a href="#">World Heritage Properties:</a>	None
<a href="#">National Heritage Places:</a>	None
<a href="#">Wetlands of International Importance:</a>	None
<a href="#">Great Barrier Reef Marine Park:</a>	None
<a href="#">Commonwealth Marine Area:</a>	1
<a href="#">Listed Threatened Ecological Communities:</a>	None
<a href="#">Listed Threatened Species:</a>	34
<a href="#">Listed Migratory Species:</a>	48

## 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 <http://www.environment.gov.au/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 Land:</a>	1
<a href="#">Commonwealth Heritage Places:</a>	None
<a href="#">Listed Marine Species:</a>	81
<a href="#">Whales and Other Cetaceans:</a>	11
<a href="#">Critical Habitats:</a>	None
<a href="#">Commonwealth Reserves Terrestrial:</a>	None
<a href="#">Commonwealth Reserves Marine:</a>	1

## Extra Information

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

<a href="#">State and Territory Reserves:</a>	1
<a href="#">Regional Forest Agreements:</a>	None
<a href="#">Invasive Species:</a>	12
<a href="#">Nationally Important Wetlands:</a>	1
<a href="#">Key Ecological Features (Marine)</a>	1

# Details

## Matters of National Environmental Significance

### Commonwealth Marine Area

[\[ Resource Information \]](#)

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

#### Name

EEZ and Territorial Sea

### Marine Regions

[\[ Resource Information \]](#)

If you are planning to undertake action in an area in or close to the Commonwealth Marine Area, and a marine bioregional plan has been prepared for the Commonwealth Marine Area in that area, the marine bioregional plan may inform your decision as to whether to refer your proposed action under the EPBC Act.

#### Name

[North](#)

### Listed Threatened Species

[\[ Resource Information \]](#)

Name	Status	Type of Presence
<b>Birds</b>		
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat likely to occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Calidris tenuirostris</a> Great Knot [862]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#">Erythrotriorchis radiatus</a> Red Goshawk [942]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Erythrura gouldiae</a> Gouldian Finch [413]	Endangered	Species or species habitat known to occur within area
<a href="#">Falcunculus frontatus whitei</a> Crested Shrike-tit (northern), Northern Shrike-tit [26013]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Limosa lapponica baueri</a> Bar-tailed Godwit (baueri), Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat may occur within area
<a href="#">Limosa lapponica menzbieri</a> Northern Siberian Bar-tailed Godwit, Bar-tailed Godwit (menzbieri) [86432]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur

Name	Status	Type of Presence within area
<a href="#">Rostratula australis</a> Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
<a href="#">Tyto novaehollandiae kimberli</a> Masked Owl (northern) [26048]	Vulnerable	Species or species habitat likely to occur within area
<b>Mammals</b>		
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Species or species habitat may occur within area
<a href="#">Conilurus penicillatus</a> Brush-tailed Rabbit-rat, Brush-tailed Tree-rat, Pakooma [132]	Vulnerable	Species or species habitat may occur within area
<a href="#">Dasyurus hallucatus</a> Northern Quoll, Digul [331]	Endangered	Species or species habitat likely to occur within area
<a href="#">Macroderma gigas</a> Ghost Bat [174]	Vulnerable	Breeding likely to occur within area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]	Vulnerable	Species or species habitat may occur within area
<a href="#">Notomys aquilo</a> Northern Hopping-mouse, Woorrentinta [123]	Vulnerable	Species or species habitat may occur within area
<a href="#">Phascogale pirata</a> Northern Brush-tailed Phascogale [82954]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Saccolaimus saccolaimus nudicluniatus</a> Bare-rumped Sheath-tailed Bat, Bare-rumped Sheath-tail Bat [66889]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Xeromys myoides</a> Water Mouse, False Water Rat, Yirrkoo [66]	Vulnerable	Species or species habitat may occur within area
<b>Reptiles</b>		
<a href="#">Acanthophis hawkei</a> Plains Death Adder [83821]	Vulnerable	Species or species habitat may occur within area
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Elseya lavarackorum</a> Gulf Snapping Turtle [67197]	Endangered	Species or species habitat known to occur within area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Foraging, feeding or related behaviour known

Name	Status	Type of Presence
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	to occur within area Foraging, feeding or related behaviour known to occur within area
<b>Sharks</b>		
<a href="#">Carcharodon carcharias</a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area
<a href="#">Glyphis glyphis</a> Speartooth Shark [82453]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Pristis clavata</a> Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Pristis pristis</a> Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Pristis zijsron</a> Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Rhincodon typus</a> Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area

#### Listed Migratory Species

[ [Resource Information](#) ]

\* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
<b>Migratory Marine Birds</b>		
<a href="#">Anous stolidus</a> Common Noddy [825]		Species or species habitat may occur within area
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<a href="#">Calonectris leucomelas</a> Streaked Shearwater [1077]		Species or species habitat may occur within area
<a href="#">Fregata ariel</a> Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat known to occur within area
<a href="#">Fregata minor</a> Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat may occur within area
<a href="#">Sterna albifrons</a> Little Tern [813]		Species or species habitat may occur within area
<a href="#">Sterna anaethetus</a> Bridled Tern [814]		Breeding known to occur within area
<a href="#">Sterna dougallii</a> Roseate Tern [817]		Breeding known to occur within area
<a href="#">Sterna sumatrana</a> Black-naped Tern [800]		Breeding known to occur within area
<b>Migratory Marine Species</b>		
<a href="#">Anoxypristis cuspidata</a> Narrow Sawfish, Knifetooth Sawfish [68448]		Species or species habitat may occur within

Name	Threatened	Type of Presence area
<a href="#">Balaenoptera edeni</a> Bryde's Whale [35]		Species or species habitat may occur within area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Species or species habitat may occur within area
<a href="#">Carcharodon carcharias</a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#">Crocodylus porosus</a> Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Dugong dugon</a> Dugong [28]		Species or species habitat known to occur within area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#">Isurus paucus</a> Longfin Mako [82947]		Species or species habitat likely to occur within area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Foraging, feeding or related behaviour known to occur within area
<a href="#">Manta alfredi</a> Reef Manta Ray, Coastal Manta Ray, Inshore Manta Ray, Prince Alfred's Ray, Resident Manta Ray [84994]		Species or species habitat may occur within area
<a href="#">Manta birostris</a> Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		Species or species habitat may occur within area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]	Vulnerable	Species or species habitat may occur within area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#">Orcaella brevirostris</a> Irrawaddy Dolphin [45]		Species or species habitat known to occur within area
<a href="#">Orcinus orca</a> Killer Whale, Orca [46]		Species or species habitat may occur within area
<a href="#">Pristis clavata</a> Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area

Name	Threatened	Type of Presence
<a href="#">Pristis pristis</a> Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Pristis zijsron</a> Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Rhincodon typus</a> Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
<a href="#">Sousa chinensis</a> Indo-Pacific Humpback Dolphin [50]		Species or species habitat known to occur within area
<b>Migratory Terrestrial Species</b>		
<a href="#">Cecropis daurica</a> Red-rumped Swallow [80610]		Species or species habitat may occur within area
<a href="#">Cuculus optatus</a> Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat may occur within area
<a href="#">Hirundo rustica</a> Barn Swallow [662]		Species or species habitat may occur within area
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat may occur within area
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		Species or species habitat may occur within area
<b>Migratory Wetlands Species</b>		
<a href="#">Acrocephalus orientalis</a> Oriental Reed-Warbler [59570]		Species or species habitat may occur within area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat likely to occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Calidris tenuirostris</a> Great Knot [862]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#">Charadrius veredus</a> Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
<a href="#">Glareola maldivarum</a> Oriental Pratincole [840]		Species or species habitat may occur within area
<a href="#">Limosa lapponica</a> Bar-tailed Godwit [844]		Species or species habitat known to occur within area
<a href="#">Limosa limosa</a> Black-tailed Godwit [845]		Species or species habitat likely to occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur

Name	Threatened	Type of Presence within area
<a href="#">Pandion haliaetus</a> Osprey [952]		Species or species habitat known to occur within area
<a href="#">Thalasseus bergii</a> Crested Tern [83000]		Breeding known to occur within area

## Other Matters Protected by the EPBC Act

### Commonwealth Land [\[ Resource Information \]](#)

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.

Name
Commonwealth Land -

### Listed Marine Species [\[ Resource Information \]](#)

\* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
<b>Birds</b>		
<a href="#">Acrocephalus orientalis</a> Oriental Reed-Warbler [59570]		Species or species habitat may occur within area
<a href="#">Anous stolidus</a> Common Noddy [825]		Species or species habitat may occur within area
<a href="#">Anseranas semipalmata</a> Magpie Goose [978]		Species or species habitat may occur within area
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<a href="#">Ardea alba</a> Great Egret, White Egret [59541]		Species or species habitat known to occur within area
<a href="#">Ardea ibis</a> Cattle Egret [59542]		Species or species habitat may occur within area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat likely to occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Calidris tenuirostris</a> Great Knot [862]	Critically Endangered	Species or species habitat likely to occur

Name	Threatened	Type of Presence within area
<a href="#">Calonectris leucomelas</a> Streaked Shearwater [1077]		Species or species habitat may occur within area
<a href="#">Charadrius veredus</a> Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
<a href="#">Cuculus saturatus</a> Oriental Cuckoo, Himalayan Cuckoo [710]		Species or species habitat may occur within area
<a href="#">Fregata ariel</a> Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat known to occur within area
<a href="#">Fregata minor</a> Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat may occur within area
<a href="#">Glareola maldivarum</a> Oriental Pratincole [840]		Species or species habitat may occur within area
<a href="#">Haliaeetus leucogaster</a> White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
<a href="#">Hirundo daurica</a> Red-rumped Swallow [59480]		Species or species habitat may occur within area
<a href="#">Hirundo rustica</a> Barn Swallow [662]		Species or species habitat may occur within area
<a href="#">Limosa lapponica</a> Bar-tailed Godwit [844]		Species or species habitat known to occur within area
<a href="#">Limosa limosa</a> Black-tailed Godwit [845]		Species or species habitat likely to occur within area
<a href="#">Merops ornatus</a> Rainbow Bee-eater [670]		Species or species habitat may occur within area
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat may occur within area
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		Species or species habitat may occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Pandion haliaetus</a> Osprey [952]		Species or species habitat known to occur within area
<a href="#">Rostratula benghalensis (sensu lato)</a> Painted Snipe [889]	Endangered*	Species or species habitat likely to occur within area
<a href="#">Sterna albifrons</a> Little Tern [813]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
<a href="#">Sterna anaethetus</a> Bridled Tern [814]		Breeding known to occur within area
<a href="#">Sterna bengalensis</a> Lesser Crested Tern [815]		Breeding known to occur within area
<a href="#">Sterna bergii</a> Crested Tern [816]		Breeding known to occur within area
<a href="#">Sterna dougallii</a> Roseate Tern [817]		Breeding known to occur within area
<a href="#">Sterna sumatrana</a> Black-naped Tern [800]		Breeding known to occur within area
<b>Fish</b>		
<a href="#">Campichthys tricarinatus</a> Three-keel Pipefish [66192]		Species or species habitat may occur within area
<a href="#">Choeroichthys brachysoma</a> Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194]		Species or species habitat may occur within area
<a href="#">Choeroichthys suillus</a> Pig-snouted Pipefish [66198]		Species or species habitat may occur within area
<a href="#">Corythoichthys amplexus</a> Fijian Banded Pipefish, Brown-banded Pipefish [66199]		Species or species habitat may occur within area
<a href="#">Corythoichthys flavofasciatus</a> Reticulate Pipefish, Yellow-banded Pipefish, Network Pipefish [66200]		Species or species habitat may occur within area
<a href="#">Doryrhamphus excisus</a> Bluestripe Pipefish, Indian Blue-stripe Pipefish, Pacific Blue-stripe Pipefish [66211]		Species or species habitat may occur within area
<a href="#">Doryrhamphus janssi</a> Cleaner Pipefish, Janss' Pipefish [66212]		Species or species habitat may occur within area
<a href="#">Festucalex cinctus</a> Girdled Pipefish [66214]		Species or species habitat may occur within area
<a href="#">Halicampus brocki</a> Brock's Pipefish [66219]		Species or species habitat may occur within area
<a href="#">Halicampus grayi</a> Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area
<a href="#">Halicampus spinirostris</a> Spiny-snout Pipefish [66225]		Species or species habitat may occur within area
<a href="#">Haliichthys taeniophorus</a> Ribboned Pipehorse, Ribboned Seadragon [66226]		Species or species habitat may occur within area
<a href="#">Hippichthys cyanospilos</a> Blue-speckled Pipefish, Blue-spotted Pipefish [66228]		Species or species habitat may occur within area
<a href="#">Hippichthys penicillus</a> Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
<a href="#">Hippocampus histrix</a> Spiny Seahorse, Thorny Seahorse [66236]		Species or species habitat may occur within area
<a href="#">Hippocampus kuda</a> Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within area
<a href="#">Hippocampus planifrons</a> Flat-face Seahorse [66238]		Species or species habitat may occur within area
<a href="#">Hippocampus spinosissimus</a> Hedgehog Seahorse [66239]		Species or species habitat may occur within area
<a href="#">Micrognathus micronotopterus</a> Tidepool Pipefish [66255]		Species or species habitat may occur within area
<a href="#">Solegnathus hardwickii</a> Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area
<a href="#">Trachyrhamphus bicoarctatus</a> Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area
<a href="#">Trachyrhamphus longirostris</a> Straightstick Pipefish, Long-nosed Pipefish, Straight Stick Pipefish [66281]		Species or species habitat may occur within area
<b>Mammals</b>		
<a href="#">Dugong dugon</a> Dugong [28]		Species or species habitat known to occur within area
<b>Reptiles</b>		
<a href="#">Acalyptophis peronii</a> Horned Seasnake [1114]		Species or species habitat may occur within area
<a href="#">Aipysurus duboisii</a> Dubois' Seasnake [1116]		Species or species habitat may occur within area
<a href="#">Aipysurus eydouxii</a> Spine-tailed Seasnake [1117]		Species or species habitat may occur within area
<a href="#">Aipysurus laevis</a> Olive Seasnake [1120]		Species or species habitat may occur within area
<a href="#">Astrotia stokesii</a> Stokes' Seasnake [1122]		Species or species habitat may occur within area
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#">Crocodylus johnstoni</a> Freshwater Crocodile, Johnston's Crocodile, Johnston's River Crocodile [1773]		Species or species habitat may occur within area
<a href="#">Crocodylus porosus</a> Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur

Name	Threatened	Type of Presence
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	within area Foraging, feeding or related behaviour likely to occur within area
<a href="#">Disteira kingii</a> Spectacled Seasnake [1123]		Species or species habitat may occur within area
<a href="#">Disteira major</a> Olive-headed Seasnake [1124]		Species or species habitat may occur within area
<a href="#">Enhydrina schistosa</a> Beaked Seasnake [1126]		Species or species habitat may occur within area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#">Hydrelaps darwiniensis</a> Black-ringed Seasnake [1100]		Species or species habitat may occur within area
<a href="#">Hydrophis atriceps</a> Black-headed Seasnake [1101]		Species or species habitat may occur within area
<a href="#">Hydrophis elegans</a> Elegant Seasnake [1104]		Species or species habitat may occur within area
<a href="#">Hydrophis inornatus</a> Plain Seasnake [1107]		Species or species habitat may occur within area
<a href="#">Hydrophis mcdowelli</a> null [25926]		Species or species habitat may occur within area
<a href="#">Hydrophis ornatus</a> Spotted Seasnake, Ornate Reef Seasnake [1111]		Species or species habitat may occur within area
<a href="#">Hydrophis pacificus</a> Large-headed Seasnake, Pacific Seasnake [1112]		Species or species habitat may occur within area
<a href="#">Lapemis hardwickii</a> Spine-bellied Seasnake [1113]		Species or species habitat may occur within area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Foraging, feeding or related behaviour known to occur within area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#">Parahydrophis mertoni</a> Northern Mangrove Seasnake [1090]		Species or species habitat may occur within area
<a href="#">Pelamis platurus</a> Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area

## Whales and other Cetaceans

[ [Resource Information](#) ]

Name	Status	Type of Presence
Mammals		

Name	Status	Type of Presence
<a href="#">Balaenoptera edeni</a> Bryde's Whale [35]		Species or species habitat may occur within area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Species or species habitat may occur within area
<a href="#">Delphinus delphis</a> Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
<a href="#">Grampus griseus</a> Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]	Vulnerable	Species or species habitat may occur within area
<a href="#">Orcaella brevirostris</a> Irrawaddy Dolphin [45]		Species or species habitat known to occur within area
<a href="#">Orcinus orca</a> Killer Whale, Orca [46]		Species or species habitat may occur within area
<a href="#">Sousa chinensis</a> Indo-Pacific Humpback Dolphin [50]		Species or species habitat known to occur within area
<a href="#">Stenella attenuata</a> Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area
<a href="#">Tursiops aduncus</a> Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area
<a href="#">Tursiops truncatus s. str.</a> Bottlenose Dolphin [68417]		Species or species habitat may occur within area

## Commonwealth Reserves Marine [\[ Resource Information \]](#)

Name	Label
Limmen	Multiple Use Zone (IUCN VI)

## Extra Information

### State and Territory Reserves [\[ Resource Information \]](#)

Name	State
Limmen	NT

### Invasive Species [\[ Resource Information \]](#)

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resources Audit, 2001.

Name	Status	Type of Presence
<b>Frogs</b>		
Rhinella marina Cane Toad [83218]		Species or species

Name	Status	Type of Presence
habitat likely to occur within area		
<b>Mammals</b>		
Bos taurus Domestic Cattle [16]		Species or species habitat likely to occur within area
Bubalus bubalis Water Buffalo, Swamp Buffalo [1]		Species or species habitat likely to occur within area
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Equus caballus Horse [5]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Sus scrofa Pig [6]		Species or species habitat likely to occur within area

<b>Plants</b>		
Acacia nilotica subsp. indica Prickly Acacia [6196]		Species or species habitat may occur within area
Jatropha gossypifolia Cotton-leaved Physic-Nut, Bellyache Bush, Cotton-leaf Physic Nut, Cotton-leaf Jatropha, Black Physic Nut [7507]		Species or species habitat likely to occur within area
Mimosa pigra Mimosa, Giant Mimosa, Giant Sensitive Plant, Thorny Sensitive Plant, Black Mimosa, Catclaw Mimosa, Bashful Plant [11223]		Species or species habitat likely to occur within area
Parkinsonia aculeata Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse Bean [12301]		Species or species habitat likely to occur within area
Parthenium hysterophorus Parthenium Weed, Bitter Weed, Carrot Grass, False Ragweed [19566]		Species or species habitat may occur within area

Nationally Important Wetlands		[ Resource Information ]
Name		State
<a href="#">Limmen Bight (Port Roper) Tidal Wetlands System</a>		NT

Key Ecological Features (Marine)		[ Resource Information ]
Key Ecological Features are the parts of the marine ecosystem that are considered to be important for the biodiversity or ecosystem functioning and integrity of the Commonwealth Marine Area.		

Name	Region
<a href="#">Gulf of Carpentaria coastal zone</a>	North

# 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 and National Heritage properties, Wetlands of International and National 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.

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

Where very little information is available for 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 reliable distribution mapping methods are used to update these distributions as time permits.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

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.

# Coordinates

-14.737422 135.392684,-14.737422 135.774459

# 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.

## Appendix B Aboriginal Sacred Sites Register search





**Our File:** 2017/45  
**In Reply Please Quote:** 201700430  
**Your Reference:**

03 February 2017

Ecoz Environmental Consultants  
GPO Box 381  
Darwin 0801

**Attention: Keith Munson**

**RE Abstract of Records - Port Roper and Hodgson River Road and Roper Highway (NT Portion 1184)**

Referring to your request received on 23 January 2017 seeking information of AAPA records within the above area, I advise as follows:

The area contained by your proposal lies on Aboriginal land held by the Yutpundji-Djindiwirritj Aboriginal Land Trust, Marra Aboriginal Land Trust, Arnhem Land Aboriginal Land Trust, Kewulyi Aboriginal Land Trust and Alawa 1 Aboriginal Land Trust and is administered by the Northern Land Council. Under section 23 of the Land Rights Act this Land Council has the Statutory responsibility for consulting with the traditional owners with respect to any proposal relating to the use of the land.

The Authority has sacred sites within the area, which is shown on the map accompanying this letter as either "registered sacred sites" or "recorded sacred sites". Those listed as "registered sacred sites" are sacred sites that Aboriginal custodians have asked the Authority to protect and that have subsequently been documented and evaluated by the Authority and entered in the Public Register of Sacred Sites in accordance with the *Northern Territory Aboriginal Sacred Sites Act 1989*.

Whereas, those listed as "recorded sacred sites" are sites that have not been evaluated or placed in the Register but there is information indicating that they are nonetheless significant according to Aboriginal tradition and therefore "sacred sites" within the meaning of the Act. The Authority does not purport to hold detailed information regarding all these sites. However, the information attached to this letter regarding recorded sacred sites is relevant to your query as the offence provisions of the Act apply to all sacred sites, whether or not these have been listed in the Public Register of Sacred Sites.

The sacred site point shown on the map is not indicative of the specific site location and doesn't represent the full location of any features of the site. Before entering or undertaking works on, or in the vicinity of these sites, further advice should be sought from the Registrar.

An Abstract of the Authority's Records is not a definitive way of determining the location of all sacred sites in a given area, particularly in circumstances where use or works are proposed that may result in disturbance of the natural features of the area.

**Darwin**

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F: +61 (08) 8999 4334  
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enquiries.aapa@nt.gov.au  
4<sup>th</sup> Floor, R.C.G Centre,  
47 Mitchell Street Darwin NT  
GPO Box 1890, Darwin NT 0801

**Alice Springs**

P: +61 (08) 8999 5511  
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enquiries.aapa@nt.gov.au  
Ground Floor, Belvedere House  
Cnr Bath & Parsons Streets Alice Springs NT  
All mail to Darwin GPO

There is a risk that a sacred site previously unknown to the Authority may be identified after the commencement of works, leaving no option but to cease works or possibly breach the offence provisions of the Act.

To overcome this problem the *Northern Territory Aboriginal Sacred Sites Act 1989* enables a person, wishing to make use of or carry out works on land in the Northern Territory, to request that the Aboriginal Areas Protection Authority consult with custodians and provide written advice specifying the constraints (if any) to a particular activity imposed by the existence of sacred sites. Section 19G of the Act also provides the opportunity for an Applicant to discuss the project with Aboriginal custodians at a meeting convened by the Authority.

The written advice provided by the Authority following the completion of the procedures established in Sections 19A-22 of the Act is termed an "Authority Certificate". An Authority Certificate sets out the conditions (if any) on which, under the Act the proposed work may be carried out or use made of the land. As long as the holder of a Certificate complies with its conditions the holder is indemnified against prosecution under any of the offence provisions of the Act.

An Authority Certificate has previously been issued over either part or all of your search area. As a consequence of this, under Sections 19A-22 of the Act, the Authority has placed conditions relating to the protection of sacred sites in relation to particular works. The accompanying map shows the approximate location of the Restricted Works Area identified in the Certificate.

**The Authority highly recommends that an Authority Certificate be applied for any proposed works or use on or near Port Roper and Hodgson River Road and Roper Highway (NT Portion 1184).**

Inspection of the Public Register of Authority Certificates may be carried out in the Authority's Darwin or Alice Springs office at a cost of 23 Revenue Units (\$26) per Certificate viewed. Inspection of the Public Register of Sacred Sites may be carried out in the Authority's Darwin or Alice Springs office at a cost of 23 Revenue Units (\$26) per registered site viewed.

Please note that the cost of this Abstract of Records will be 23 Revenue Units per Lot Searched (\$26) and an invoice will be issued to you by the Department of Corporate and Information Services. The terms and conditions of the invoice will require you to make payment within 30 days of receipt. Please do not hesitate to contact the Registrar through [enquiries.aapa@nt.gov.au](mailto:enquiries.aapa@nt.gov.au) if you have any queries.

During consultations reference was made by Aboriginal custodians to the possibility of burial sites being located within the subject land for the attached Certificate. Under the Northern Territory Criminal Code it is an offence to interfere with remains of a deceased person. Under the Northern Territory Heritage Act it is an offence to interfere with the remains of a deceased Aboriginal person without authorization under that Act.

In the event that any skeletal remains are unearthed it is your responsibility in law to stop works and report immediately such disturbance to the NT Police, and to the Director Heritage Branch, Department of Tourism and Culture, if you have reason to believe the remains are those of an Aboriginal burial. For further information please contact the Director Heritage Branch, Department of Tourism and Culture on (08) 8999 5051 or email [heritage.nretas@nt.gov.au](mailto:heritage.nretas@nt.gov.au).

If you have any queries, please do not hesitate to contact the Registrar via email through [enquiries.aapa@nt.gov.au](mailto:enquiries.aapa@nt.gov.au) or by phone on 8999 4332.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'Ambre Philpott', written in a cursive style.

Ambre Philpott  
Registrar

**Port Roper and  
Hodgson River Road  
and Roper Highway  
(NT Portion 1184)**

MAP SHOWING SACRED  
SITES RECORDED AS AT  
03/02/2017

ISSUED TO:  
Ecoz Environmental Consultants

SCALE 1 : 650000

0 13000 26000

metres  
Projection: MGA Zone 53  
Horizontal Datum: GDA94

**KEY**

- Recorded Sacred Site
- ▲ Registered Sacred Site
- Restricted Works Area
- Extent of Registered Site
- Subject Land

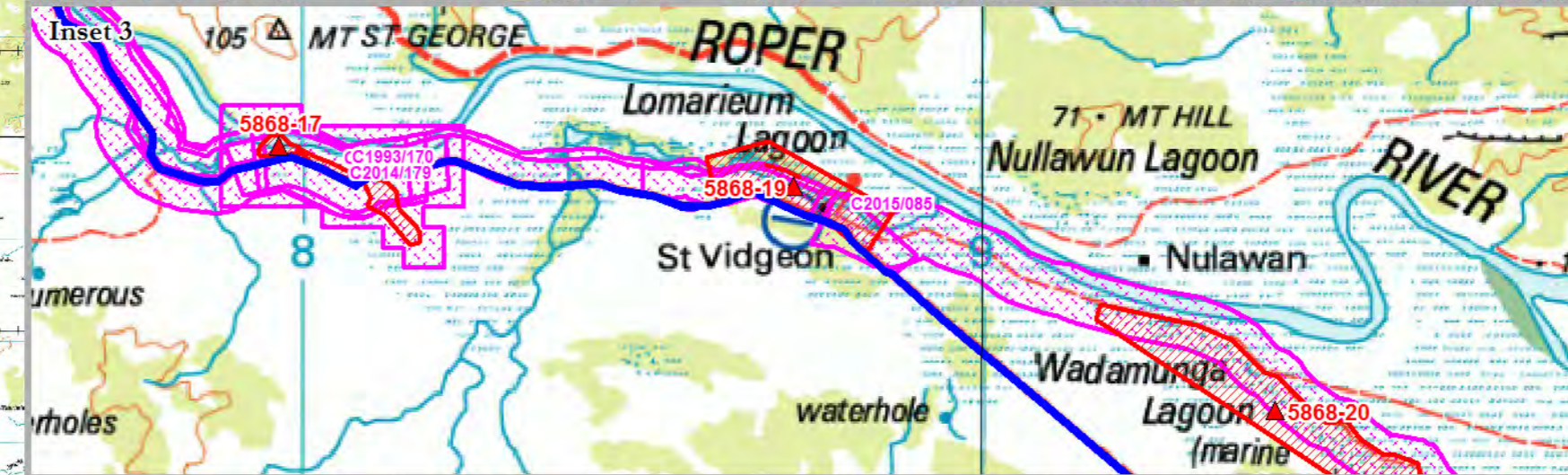
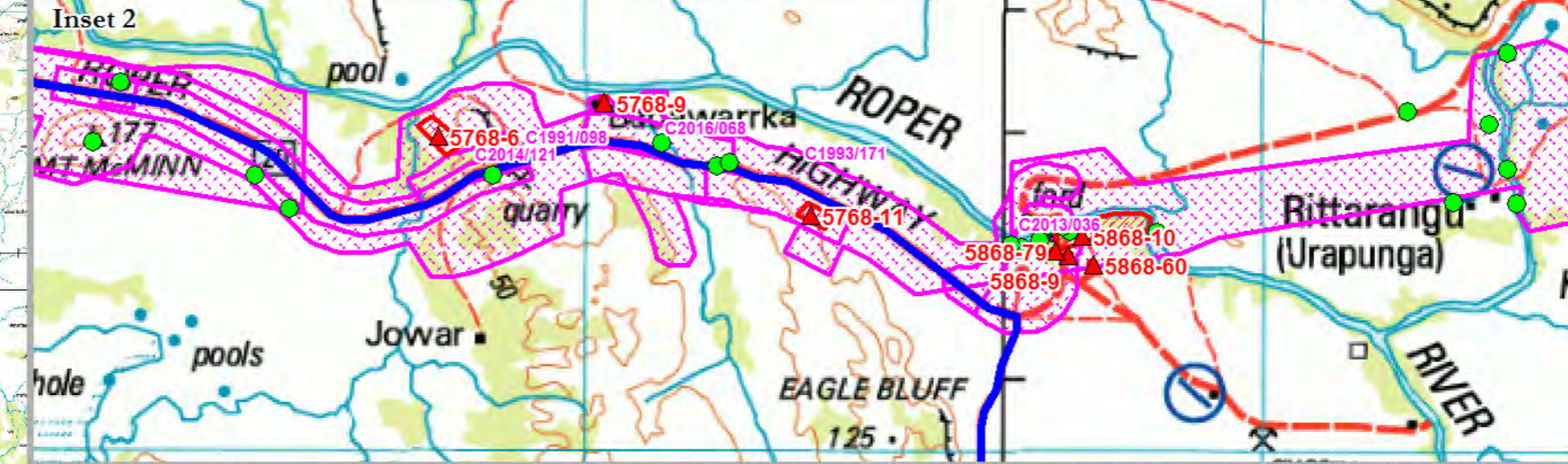
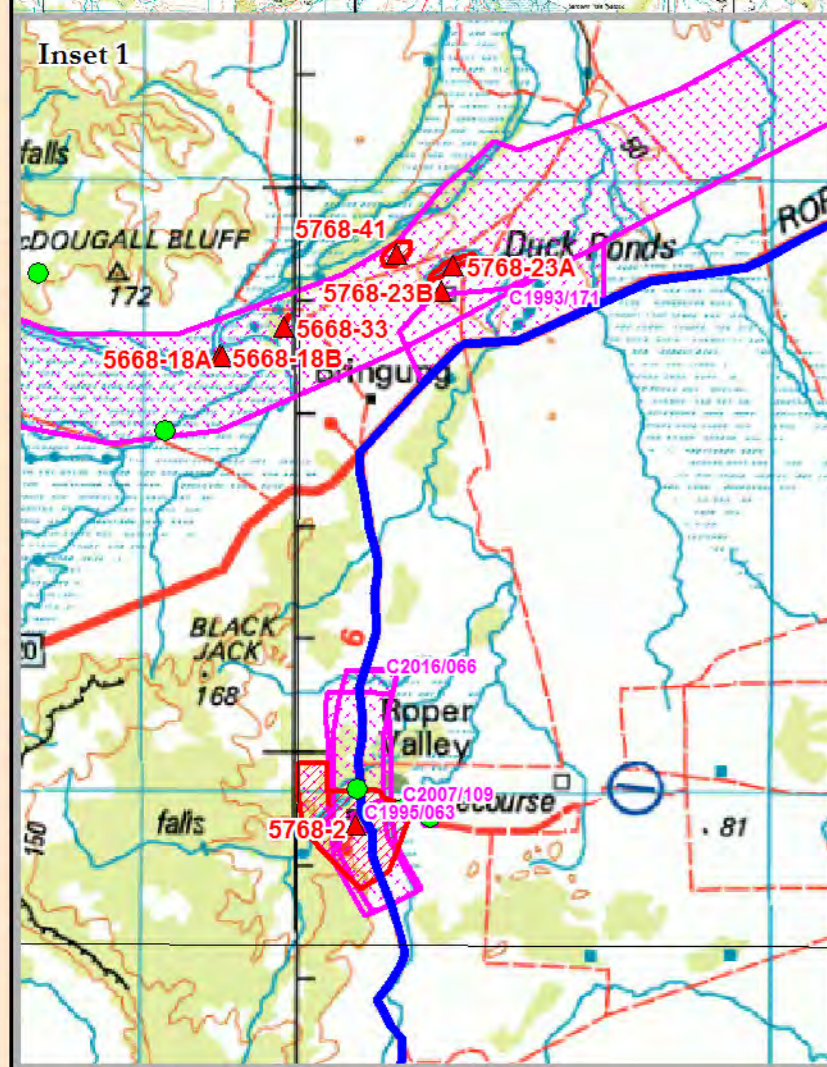
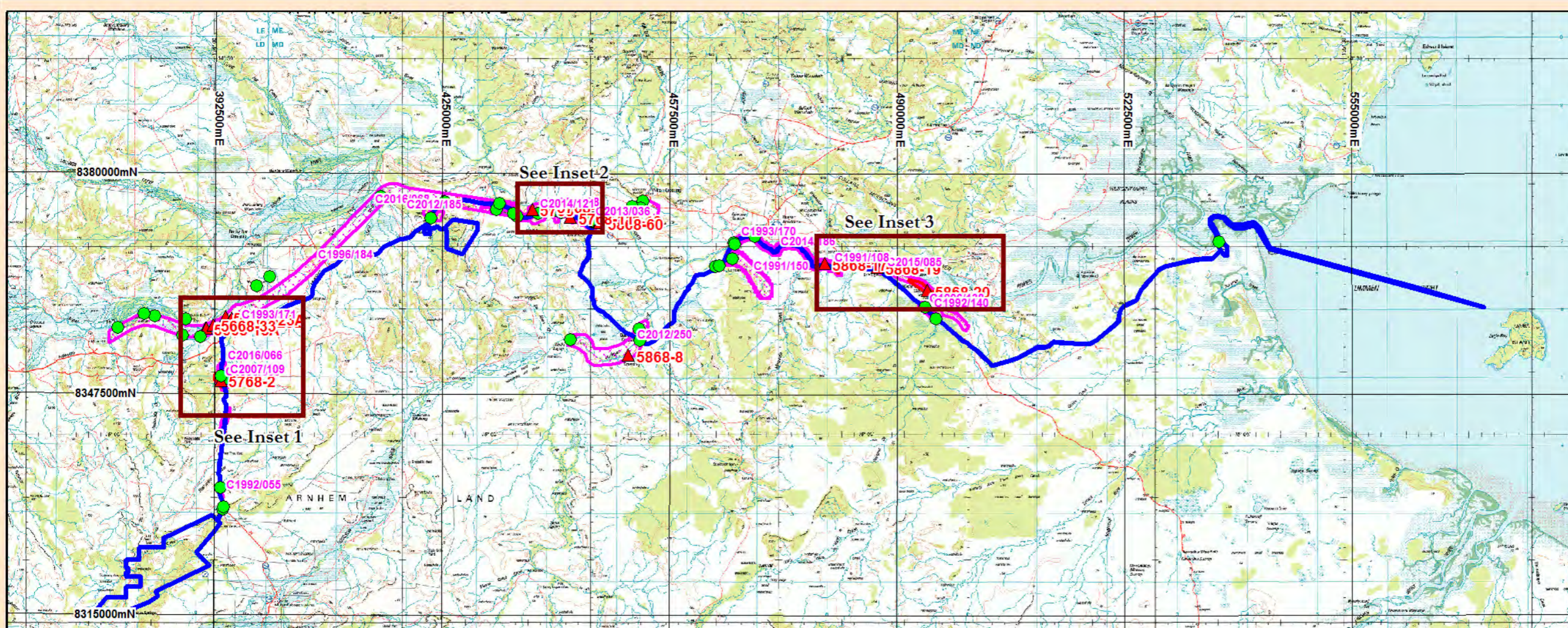
\* The Sacred Site point is not indicative of the specific site location and does not represent the location of any features of the site.



Prepared and produced by Aboriginal  
Areas Protection Authority (AAPA),  
Darwin, Northern Territory of Australia  
03/02/2017  
A © Northern Territory of Australia

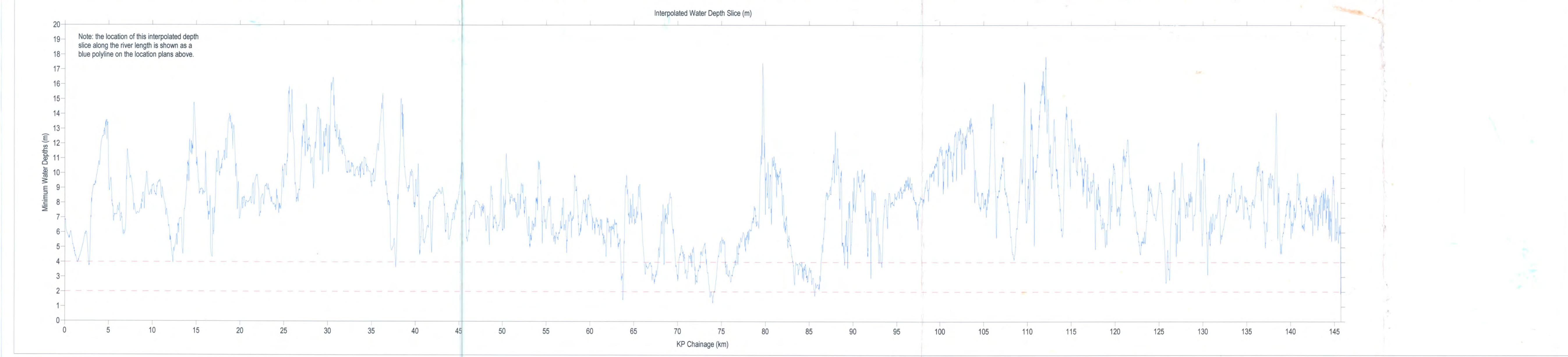
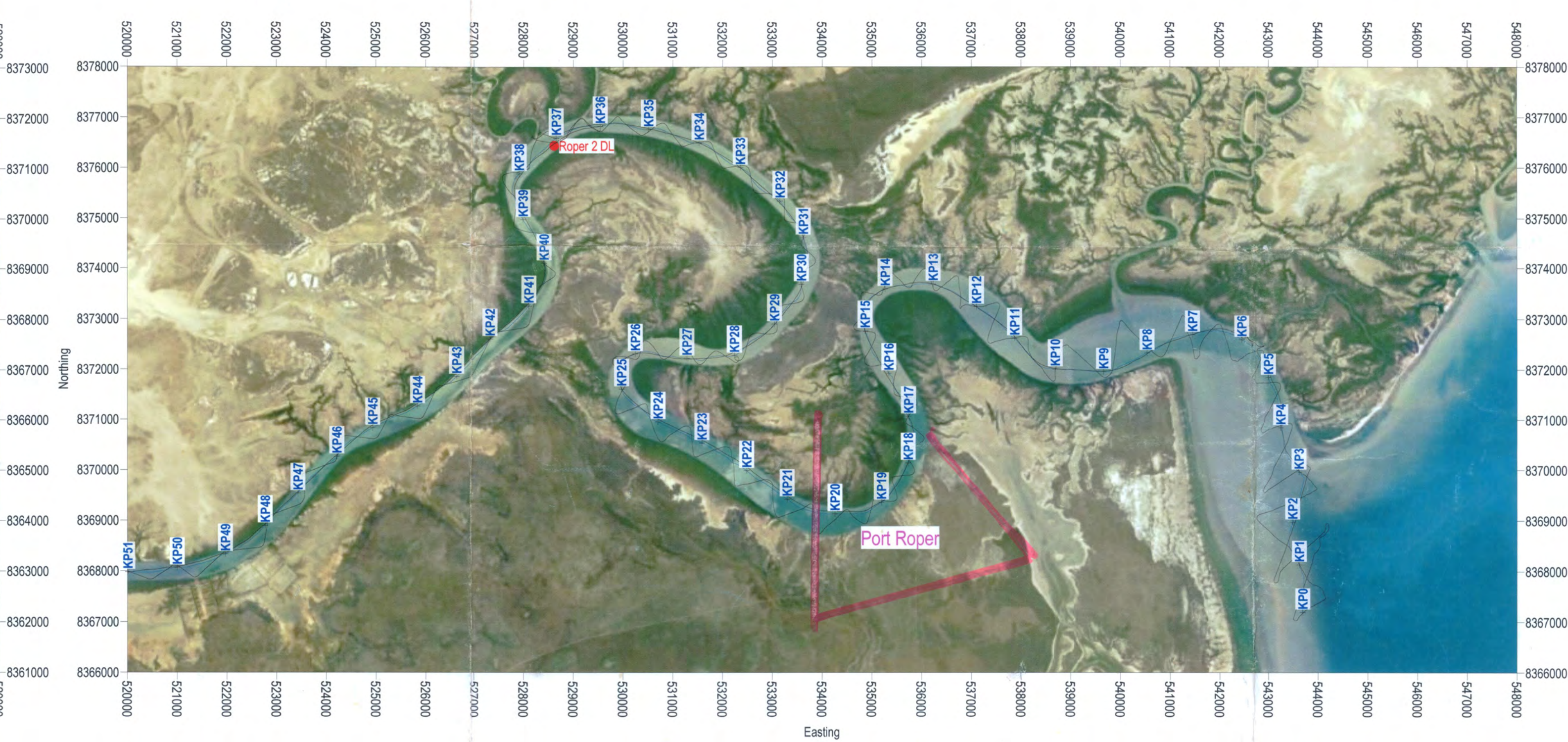
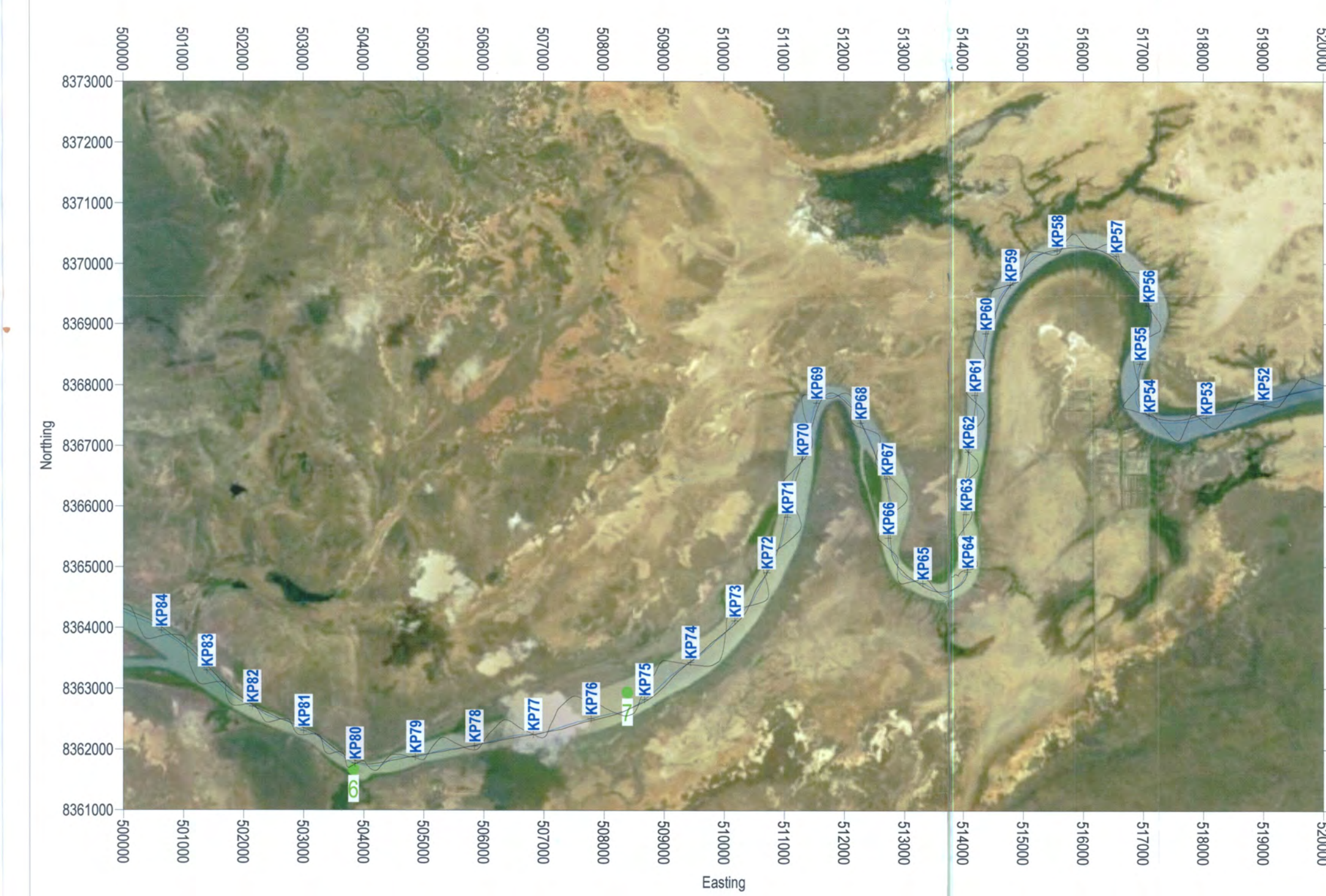
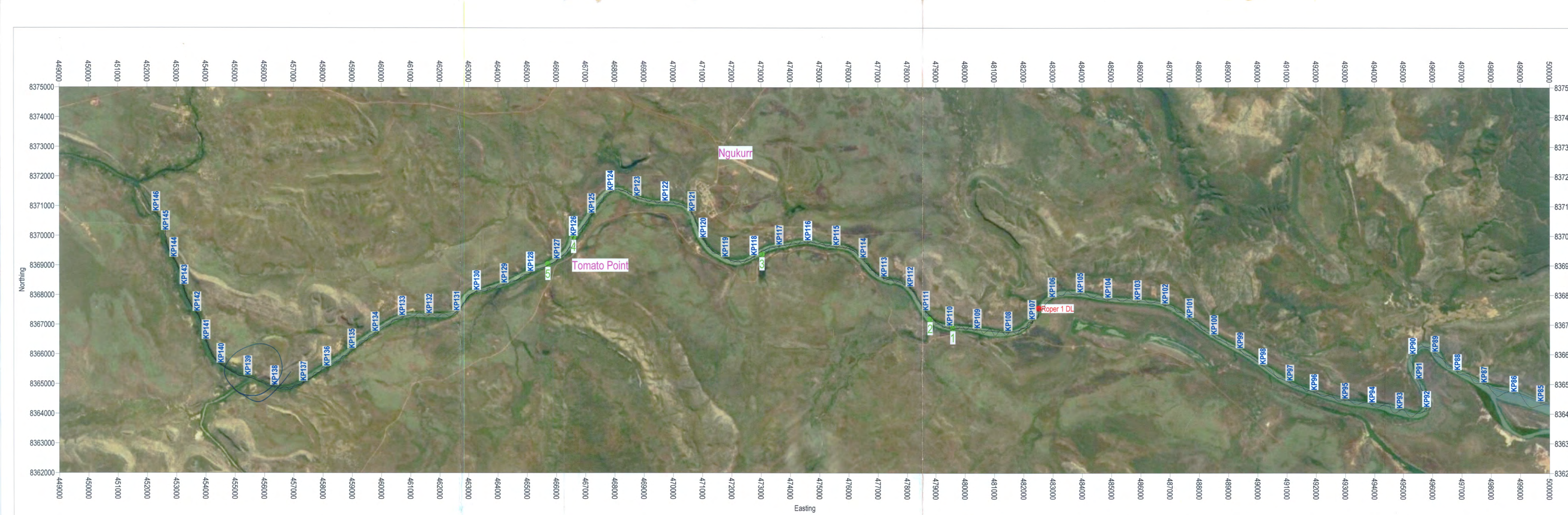
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## Appendix C Roper River Reconnaissance Depth Survey





**GEODETTIC INFORMATION**  
 Horizontal Datum: MGA/GDA 94 Zone 53  
 Vertical Datum: Not Applicable

**DISCLAIMER**  
 Any plans must be read in conjunction with the accompanying report

**LEGEND**

- KP20 Kilometer Points from River Mouth
- Roper1 Roper No.1 Depth Logging Site
- Vessel Trackplot
- Interpolated Water Depth Slice Alignment

Easting	Northing	Description	Feature Number
479579	8366896	2x Rock Outcrops	1
478801	8367205	Rock Outcrop	2
473033	8369387	Island Vegetated	3
466586	8369968	Rock Outcrop	4
465710	8369056	Wreck	5
503830	8361669	Rock Outcrop	6
506389	8362937	Sand bank at Low Tide	7

**CLIENT DETAILS**  
**Sherwin Iron Limited**  
 marine & earth sciences  
 102 Brisbane Street,  
 Brisbane QLD 4171  
 +61 409 844 655

**ROPER RIVER RECONNAISSANCE SURVEY**

**LOCATION PLANS VESSEL TRACKPLOTS AND INTERPOLATED MINIMUM WATER DEPTH SLICE**

**SCALE** As Shown

Survey Date: May 2012		Project Ref: 358				
Issue No.	Date:	Description	Surv.	Interp.	Draw	Appr.
1	22/05/12	Location/Slice	dpk	dpk	dpk	dpk

Client Drawing No. Figure No. **2** Sheet No.

## Appendix D Threatened species likelihood of occurrence



## Threatened species 'likelihood of occurrence' assessment

This 'likelihood of occurrence' assessment identifies which threatened species have potential to occur within the project footprint. The following procedure was used to determine the likelihood of occurrence of threatened species:

- 1) Identify potential habitat features within the project footprint using available desktop information (i.e. land unit mapping, existing vegetation mapping, aerial imagery, fire history etc.).
- 2) Identify:
  - a. Matters of National Environmental Significance obtained using the Protected Matters Search Tool (undertaken January 2017).
  - b. Bioregional threatened species records extracted from the NT flora and fauna atlases maintained by DENR.
- 3) Collate the following details for each of those species – conservation status (NT and Federal), habitat requirements, distribution and number of records within the bioregions.
- 4) Analyse the likelihood that each species will occur in the project footprint by applying the following likelihood classifications:
  - a. **HIGH** – it is expected that this species will be within the project footprint because of the presence of core suitable habitat, and/or there are recent proximate records (i.e. post-2000).
  - b. **MEDIUM** – this species may occur within the project footprint; however, there is evidence that lowers its likelihood of occurrence (i.e. lack of core habitat, no recent records with the search area, habitat degradation etc.).
  - c. **LOW** – it is not expected that this species is supported within the project footprint, as there is no suitable habitat for the species and/or current threats in the region are known to have significantly impacted upon the species.
  - d. **NONE** – there is strong evidence that this species will not occur within the project footprint.

*Note: For many threatened species, the Atlas of Living Australia provides 'likely' and 'possible' modelled expert distributions. These distributions are referred to throughout this document and mostly come from the Species of National Environmental Significance Database maintained by the federal Department of the Environment.*

*The location of some threatened species records from the Atlas of Living Australia has been generalised to 0.1 degree (introducing a location variance of up to 11 km) due to concerns that revealing the actual location may lead to poaching. Spatially-generalised records have been considered in this assessment; however, use of these records has been noted where relevant.*

THREATENED SPECIES LIKELIHOOD ANALYSIS				
Name	Status		Summary	Likelihood of occurrence
	Cth	NT		
<b>FLORA</b>				
<b>a fern</b> <i>Macrothelypteris torresiana</i>	-	EN	<b>Habitat:</b> Sheltered sandstone gorges associated with springs and groundwater seepages (Cowie & Westaway 2012). <b>Distribution:</b> Isolated populations in northern WA, eastern Qld, north-eastern NSW and the NT (two locations on Wollongorang Station in the Gulf region, adjacent to the Qld border) (Cowie & Westaway 2012). <b>Records:</b> Four from near the NT/Qld border, more than 350 km to the south-east.	<b>LOW</b> <ul style="list-style-type: none"> <li>• There may be suitable habitat within the project footprint.</li> <li>• This species appears to have a very restricted range that is not proximate to the project footprint.</li> <li>• There is no <i>expert distribution</i> mapping. It is unknown how well this species has been surveyed for in suitable habitat across its potential range.</li> </ul>
<b>BIRDS</b>				
<b>*Carpentarian Grasswren</b> <i>Amytornis dorotheae</i>	EN	EN	<b>Habitat:</b> NT population is restricted to dissected, topographically complex, sandstone and conglomerate hills and plateaux with infrequent fires (Lewis & Woinarski 2006). The only recent observations were recorded in a site that had been burnt only twice in the preceding 12 years. All other historic sites with no recent observations had been burnt between three and eight times. <b>Distribution:</b> Gulf of Carpentaria hinterland – between Limmen River in the NT and Mount Isa in Qld. No records in the Borroloola area since 1986 despite several targeted surveys in the last decade (McKean & Martin 1989; Garnett et al. 2011). Within the NT, now restricted to a tiny isolated population approximately 6 km to the west of Calvert Hills Station in the Wollongorang area (TSSC 2016). <b>Records:</b> 47 for the Gull Falls and Uplands bioregion only. Clustered around Borroloola (~150 km to the south-east) and near NT/Qld border.	<b>NONE</b> <ul style="list-style-type: none"> <li>• There may be suitable habitat within the project footprint.</li> <li>• This species has a very restricted range that is not proximate to the project footprint.</li> <li>• There is no <i>expert distribution</i> mapping. However, this species has been well surveyed for in suitable habitat across its potential range.</li> </ul>
<b>*Curlew Sandpiper</b> <i>Calidris ferruginea</i>	CR	VU	<i>Threatened migratory shorebirds have been assessed collectively for the NOI in the absence of sufficient population data.</i>  <b>Habitat:</b> Coastal and estuarine with tidal mudflats. May roost during high tide on nearby beaches. May also be found at near-coastal swamps and lakes (apart from Red and Great Knot). <b>Distribution:</b> Mostly widespread around the northern Australian coast, less common in the south, with few inland records. Eastern Curlew is uncommon across. Every year these species breed in the northern hemisphere in the summer, and migrate to Australia for the southern hemisphere summer. Some birds remain in Australia during the winter. <b>Records:</b> There appears to be recent records for all of these shorebird species	<b>HIGH</b> <ul style="list-style-type: none"> <li>• There is suitable habitat proximate to the port area of the project footprint.</li> <li>• There are recent records for the region, possibly including some within the project footprint. Some of these species may occur in nationally-significant numbers. It is unlikely there is sufficient historic data to identify which sub-species of Bar-tailed Godwit is present.</li> <li>• The project footprint is within the <i>expert distribution</i> mapping of these species.</li> </ul>
<b>*Red Knot</b> <i>Calidris canutus</i>	EN	VU		
<b>*Great Knot</b> <i>Calidris tenuirostris</i>	CR	VU		
<b>*Greater Sand Plover</b> <i>Charadrius leschenaultii</i>	VU	VU		
<b>*Lesser Sand Plover</b> <i>Charadrius mongolus</i>	EN	VU		
<b>*Bar-tailed Godwit (Western Alaska subsp.)</b> <i>Limosa lapponica</i>	VU	-		

THREATENED SPECIES LIKELIHOOD ANALYSIS				
Name	Status		Summary	Likelihood of occurrence
	Cth	NT		
<i>baueri</i>			within and proximate to the mouth of the Roper River, including within a kilometre of the proposed port footprint.	
<b>*Bar-tailed Godwit (Northern Siberian subsp.)</b> <i>Limosa lapponica menzbieri</i>	CR	-	Targeted shorebird surveys have been undertaken in the area, most comprehensively by Chatto (2003) between 1990 and 2001. Those surveys identified a roost of 2000+ shorebirds (relative abundance of species unknown) proximate to the port footprint. In 1996, Chatto counted 1,500 Red Knots near the mouth of the Roper River – making that location one of the three most important areas in the NT for Red Knots. The region is also one of the four important areas in the NT for Eastern Curlew.	
<b>*Eastern Curlew</b> <i>Numenius madagascariensis</i>	CR	-	Within the region, Chatto did not record any particular shorebird species as occurring in internationally-significant numbers, but did record approximately ten species as occurring in nationally-significant numbers.	
<b>*Asian Dowitcher</b> <i>Limnodromus semipalmatus</i>	-	VU	<b>Habitat:</b> Coastal and estuarine with tidal mudflats. May roost during high tide on nearby beaches. May also be found at near-coastal swamps and lakes. <b>Distribution:</b> Mostly widespread around the northern Australian coast, less common in the south, with few inland records. Asian Dowitcher is rare across Australia. Every year, breed in the northern hemisphere in the summer, and migrate to Australia for the southern hemisphere summer. Some birds remain in Australia during the winter. <b>Records:</b> Two for the Gulf Coastal bioregion – from the mouth of the McArthur River, more than 200 km to the south-east.	<b>LOW</b> <ul style="list-style-type: none"> <li>• There is suitable habitat proximate to the port area of the project footprint.</li> <li>• There are very few records for the region – despite comprehensive surveys – and none proximate.</li> <li>• The project footprint is within the <i>expert distribution</i> mapping.</li> </ul>
<b>*Red Goshawk</b> <i>Erythrorichis radiatus</i>	VU	VU	<b>Habitat:</b> Prefers tall, open Eucalypt forest and riparian areas. Nests in large trees, frequently the tallest and most massive in a tall stand, nest trees are invariably within 1 km of permanent water (Debus et al. 1988; Aumann et al. 1991). <b>Distribution:</b> Sparsely distributed across much of the northern Australia, from the Kimberley in WA to south-eastern Qld. Within this range, generally occurs in taller forests characteristic of higher rainfall areas, but there are some isolated records from central Australia. <b>Records:</b> 44 for the Gull Falls and Uplands bioregion only. Almost all from Borroloola area or Mataranka (both more than 150 km away).	<b>HIGH</b> <ul style="list-style-type: none"> <li>• There is suitable habitat throughout the project footprint.</li> <li>• There are records for the region, but none proximate.</li> <li>• The project footprint is within the <i>expert distribution (likely)</i>.</li> </ul>
<b>Gouldian Finch</b> <i>Erythrura gouldiae</i>	EN	VU	<b>Habitat:</b> Prefers annual and perennial grasses (especially <i>Sorghum</i> ), a nearby source of surface water and – in the breeding season – unburnt, hollow-bearing <i>Eucalyptus</i> trees (especially <i>E. tintinnans</i> , <i>E. brevifolia</i> and <i>E. leucophloia</i> ) (Tidemann	<b>HIGH</b> <ul style="list-style-type: none"> <li>• There is suitable habitat throughout the project footprint.</li> <li>• There are many records for the region, including some within the</li> </ul>

THREATENED SPECIES LIKELIHOOD ANALYSIS				
Name	Status		Summary	Likelihood of occurrence
	Cth	NT		
			<p>1996; O'Malley 2006).</p> <p><b>Distribution:</b> Sparsely across northern Australia from the Kimberley to north-central Qld (Dostine 1998; Franklin 1999; Barrett et al. 2003; Franklin et al. 2005). Non-breeding birds disperse widely (Garnett et al. 2011), greatly increasing the possible range of this species.</p> <p><b>Records:</b> 109 across both bioregions, including some within the project footprint.</p>	<p>project footprint.</p> <ul style="list-style-type: none"> <li>It is unknown whether suitable breeding habitat occurs within the project footprint.</li> <li>Some of the project footprint is within the <i>expert distribution (likely)</i>, the remainder is within <i>expert distribution (likely)</i>.</li> </ul>
<p><b>*Grey Falcon</b> <i>Falco hypoleucos</i></p>	-	VU	<p><b>Habitat:</b> Areas of lightly-timbered lowland plains, typically on inland drainage systems, where the average annual rainfall is less than 500 mm (Ward 2012a).</p> <p><b>Distribution:</b> Sparsely through much of the arid and semi-arid areas of Australia, but is recorded across the country. In the NT, the majority of records are from the southern half, but there are records all the way up to Darwin (Ward 2012).</p> <p><b>Records:</b> Six records spread across the Gull Falls and Uplands bioregion only (most recent from 2002). Recorded at Deposit W in 2011 during surveys for the Sherwin EIS.</p>	<p><b>HIGH</b></p> <ul style="list-style-type: none"> <li>There is suitable habitat throughout the project footprint, but the region is not considered core habitat for this species.</li> <li>There are a few records for the region, but one within the project footprint.</li> <li>The project footprint is within the generalised <i>expert distribution</i>.</li> </ul>
<p><b>Crested Shrike-tit (northern subsp.)</b> <i>Falcunculus frontatus whitei</i></p>	VU	-	<p><b>Habitat:</b> Recorded in eight different woodland types in northern Australia, mainly those dominated by <i>Eucalyptus miniata</i>, <i>E. tetradonta</i> or <i>E. bleeseri</i> (Robinson &amp; Woinarski 1992).</p> <p><b>Distribution:</b> North-western Australia from the Kimberley in WA, across the Top End of the NT to Borroloola (TSSC 2016). In the NT, recorded in very low densities in many isolated subpopulations (Garnett &amp; Crowley 2000) between north-east Arnhem Land and semi-arid Victoria River District. Scarcity of records suggests that populations are at very low density (Woinarski 2004). Not known to have disappeared from any area where recorded historically (TSSC 2016).</p> <p><b>Records:</b> Six in Borroloola area from 1913-17, and one near Sturt Hwy from 1952.</p>	<p><b>MEDIUM</b></p> <ul style="list-style-type: none"> <li>There is suitable habitat throughout the project footprint.</li> <li>There are no records for the region since 1952. The species has not been relocated in the Borroloola area since it was first recorded there in 1913. However, there have been no recent surveys targeting the species in this region (Ward 2009).</li> <li>There is no <i>expert distribution</i> mapping.</li> </ul>
<p><b>*Partridge Pigeon (eastern subsp.)</b> <i>Geophaps smithii smithii</i></p>	VU	VU	<p><b>Habitat:</b> Occurs in open forests and woodlands with an understorey of grasses (Woinarski 2006). Prefers woodland dominated by <i>Eucalyptus tetradonta</i> and <i>E. miniata</i> (Braithwaite 1985; Garnett &amp; Crowley 2000; Higgins &amp; Davies 1996).</p> <p><b>Distribution:</b> Historically, across the Top End (from Kununurra in WA to Borroloola in NT). Since early 20<sup>th</sup> century, severe range contraction from the western, eastern and southern parts of the former distribution (Higgins &amp; Davies 1996; Woinarski et al. 2007). Currently, distribution is limited to sub-coastal Northern Territory from Yinberrie Hill in the south, Litchfield NP in the west and (western) Arnhem Land in the east (Garnett et al. 2011).</p>	<p><b>LOW</b></p> <ul style="list-style-type: none"> <li>There is suitable habitat throughout the project footprint.</li> <li>There are no records for the region since 1952. This species has likely experienced a significant range contraction.</li> <li>The project footprint is outside the <i>expert distribution</i>.</li> </ul>

THREATENED SPECIES LIKELIHOOD ANALYSIS				
Name	Status		Summary	Likelihood of occurrence
	Cth	NT		
			<b>Records:</b> 26 spread across Gulf Uplands and Falls bioregion only; all but one (from 1952) recorded pre-1924	
<b>Painted Honeyeater</b> <i>Grantiella picta</i>	VU	VU	<p><b>Habitat:</b> <i>Acacia</i> and <i>Eucalyptus</i>-dominated woodlands and open forest, preferring habitats with more mature trees that host more mistletoe. Breeding times and seasonal movements (south to north) likely governed by the fruiting of mistletoe (Garnett et al. 2011).</p> <p><b>Distribution:</b> Across eastern and northern parts of the country – but nowhere very numerous (Ward 2012). Many birds move after breeding to semi-arid regions such as north-eastern SA, central and western Qld, and central NT (TSSC 2015). Few NT records – most from the Barkly Tablelands – but no evidence of a breeding population in the NT, and the records are likely irregular visitors from south-eastern Australia (Ward 2012).</p> <p><b>Records:</b> Six from between 1914 and 1978 at least 200 km to the south-east, one from 2005 from Limmen NP (approximately 120 km south-east).</p>	<p><b>LOW</b></p> <ul style="list-style-type: none"> <li>• There is suitable habitat throughout the project footprint.</li> <li>• There are a few records for the region. This species is considered an irregular visitor to the NT.</li> <li>• The project footprint is outside the generalised <i>expert distribution</i>.</li> </ul>
<b>Australian Painted Snipe</b> <i>Rostratula australis</i>	EN	VU	<p><b>Habitat:</b> Fringes of permanent and temporary wetlands, swamps and inundated grasslands (Taylor et al. 2013).</p> <p><b>Distribution:</b> Nomadic and scattered across Australia with no predictable occurrence (Rogers 2001) but could occur at any wetland or inundated grassland across its distribution, including nearly all of the NT and Qld (Garnett et al. 2011).</p> <p><b>Records:</b> Five (1985 and four from 1999), across both bioregions, all more than 100 km to the south-east.</p>	<p><b>MEDIUM</b></p> <ul style="list-style-type: none"> <li>• There is likely to be suitable habitat within the project footprint.</li> <li>• There are a few records for the region.</li> <li>• The project footprint between Ngukurr and Port Roper is within the <i>expert distribution (likely)</i>, the rest of the project footprint is within the <i>expert distribution (maybe)</i>.</li> </ul>
<b>Masked Owl (northern subsp.)</b> <i>Tyto novaehollandiae kimberli</i>	VU	VU	<p><b>Habitat:</b> Mainly in <i>Eucalyptus</i> tall open forests (especially those dominated by <i>Eucalyptus miniata</i> and <i>E. tetradonta</i>), but also roosts in monsoon rainforests and forages in more open vegetation types, including grasslands (Woinarski &amp; Ward 2006).</p> <p><b>Distribution:</b> Poorly known, with few records from across a broad range in northern Australia. In the NT, records from the Top End, Kakadu, Coburg Peninsula (majority of records) and south-west Gulf country (Woinarski &amp; Ward 2006).</p> <p><b>Records:</b> Six around Borroloola area (1913, 1971 &amp; 1977). Queensland Museum has a specimen dated 1910 collected from Port Roper. This may be a geo-spatial error – in analysing the metadata for that record, the Atlas of Living Australia determined the habitat to be incorrect for the species.</p>	<p><b>MEDIUM</b></p> <ul style="list-style-type: none"> <li>• There is suitable habitat throughout the project footprint.</li> <li>• There are a few old records for the region. The specimen dated 1910 collected from Port Roper is likely a geo-spatial error due to the location not constituting suitable habitat for the species.</li> <li>• There is no <i>expert distribution</i> mapping.</li> </ul>
<b>MAMMALS</b>				

THREATENED SPECIES LIKELIHOOD ANALYSIS				
Name	Status		Summary	Likelihood of occurrence
	Cth	NT		
<b>Fawn Antechinus</b> <i>Antechinus bellus</i>	VU	EN	<p><b>Habitat:</b> Mostly in open forests and woodlands dominated by <i>Eucalyptus miniata</i> and/or <i>E. tetradonta</i>, particularly where these forests have a relatively dense shrubby understorey (Friend 1985; Friend &amp; Taylor 1985). Declines in areas with frequent intense fires (Corbett et al. 2003) but not necessarily common in areas where fire has been excluded for long periods (&gt;20 years) (Woinarski et al. 2004).</p> <p><b>Distribution:</b> Restricted to the Top End of the NT (Watson &amp; Calaby 2008), with one record from Melville Island. Recent surveys have failed to record it across central and eastern Arnhem Land (TSSC 2015).</p> <p><b>Records:</b> None for either bioregion. Nearest more than 200 km to the north-east and west.</p>	<p><b>LOW</b></p> <ul style="list-style-type: none"> <li>• There is suitable habitat throughout the project footprint.</li> <li>• There are no records for the region. This species has likely experienced a significant range contraction.</li> <li>• There is no <i>expert distribution</i> mapping.</li> </ul>
<b>Blue Whale</b> <i>Balaenoptera musculus</i>	EN	-	<p><b>Habitat:</b> Polar to tropical regions in coastal, continental shelf and oceanic waters (DoE 2017).</p> <p><b>Distribution:</b> Global. Annual migration from Antarctic feeding areas, through Australian waters, to tropical breeding areas (DoE 2017). Most Australian waters have no particular significance to the whales and are used only for migration and opportunistic feeding (DoE 2017). The only known areas of significance in Australia are feeding areas around the southern continental shelf near in southern WA, SA and Victoria (DEH 2005). In the NT, known only from two beach-washed specimens at Cape Hotham near Darwin in 1980 and Port Essington on Cobourg Peninsula in 2003 (Woinarski &amp; Chatto 2006).</p> <p><b>Records:</b> None for the Gulf of Carpentaria.</p>	<p><b>LOW</b></p> <ul style="list-style-type: none"> <li>• There is suitable habitat within the marine section of the project footprint.</li> <li>• There are no records for the Gulf of Carpentaria and only two for other NT waters.</li> <li>• NT waters are mapped as a region where the species 'may' occur (DoE 2017).</li> </ul>
<b>Brush-tailed Rabbit-rat</b> <i>Conilurus penicillatus</i>	VU	EN	<p><b>Habitat:</b> Largely restricted to mixed <i>Eucalypt</i> open forest and woodland, or on dunes with <i>Casuarina</i> – seeming to prefer habitats that are not burnt annually, that have an understorey of predominantly perennial grasses and a sparse-to-moderate middle storey (Firth et al. 2006; Firth 2007; Kemper &amp; Firth 2008).</p> <p><b>Distribution:</b> Formerly widespread across northern Australia, but has declined extensively from Qld and lower rainfall areas of the Kimberley in WA and the Top End in the NT. No recent records from much of the historically recorded NT range between near the mouth of Victoria River (in the west) and Sir Edward Pellew island group (in east). Most recently known from Cobourg Peninsula, Tiwi Islands, Groote Eylandt and a small area within Kakadu National Park (Woinarski 2007).</p> <p><b>Records:</b> Six in 1967 from the Sir Edward Pellew island group, three undated from near</p>	<p><b>NONE</b></p> <ul style="list-style-type: none"> <li>• There is suitable habitat throughout the project footprint.</li> <li>• There are three (undated) records proximate to the project footprint. This species has likely experienced a significant range contraction.</li> <li>• There is no <i>expert distribution</i> mapping.</li> </ul>

THREATENED SPECIES LIKELIHOOD ANALYSIS				
Name	Status		Summary	Likelihood of occurrence
	Cth	NT		
			Ngukurr.	
<b>Northern Quoll</b> <i>Dasyurus hallucatus</i>	EN	CR	<p><b>Habitat:</b> Wide range of habitats – especially coastal <i>Eucalypt</i> tall open forests – but since Cane Toads the most suitable habitats are rocky areas (Van Dam et al. 2002). Prime habitat in NT consists of rocky sandstone escarpments (Braithwaite &amp; Griffiths 1994).</p> <p><b>Distribution:</b> Dramatic range contraction associated with Cane Toad invasion. Now occurs across northern Australia in five regional populations – including the Top End in the NT. Records indicate this species occurs from Borroloola in the south-east as far west as the NT/WA border (Woinarski et al. 2007).</p> <p><b>Records:</b> Seven from Sir Edward Pellew island group (2003 and 1988) and seven from the mainland, including proximate to the project area (most recently 2002, then 1986, with 3 undated).</p>	<p><b>LOW</b></p> <ul style="list-style-type: none"> <li>• There is suitable habitat throughout the project footprint.</li> <li>• There is a 2002 record proximate to the project footprint. This species has experienced a significant reduction in population sizes and ranges since the invasion of the Top End by Cane Toads. This occurred circa 1995 for the Roper River area.</li> <li>• The project footprint is within the <i>expert distribution (likely)</i>.</li> </ul>
<b>Northern Leaf-nosed bat</b> <i>Hipposideros stenotis</i>	-	VU	<p><b>Habitat:</b> Prefers rocky outcrops – often associated with large sandstone escarpments – roosting in shallow caves, boulder piles and old mine sites (Milne 2012). Forages in a wide range of habitats including monsoon vine thickets, woodlands and open grasslands (Milne 2012).</p> <p><b>Distribution:</b> Locally in parts of the Kimberley in WA, the NT and near Mt Isa in Qld (Milne 2012). There are 31 records from the NT, and since 2000 has only been definitely recorded four times (Milne 2012). Known to have disappeared from at least two sites where previously occurred – Red Bank mine and Pine Creek (Milne 2012).</p> <p><b>Records:</b> 13 records, all from near Wollogorang Station approximately 350 km to the south-east.</p>	<p><b>MEDIUM</b></p> <ul style="list-style-type: none"> <li>• There may be suitable habitat within or proximate to the project footprint.</li> <li>• There are no records proximate to the project area.</li> <li>• There is no <i>expert distribution</i> mapping.</li> </ul>
<b>*Golden Bandicoot</b> <i>Isodon auratus</i>	VU	EN	<p><b>Habitat:</b> Mainly in heathland and shrubland on sandstone sheets, avoiding vegetation with greater tree cover (Palmer et al. 2012; Southgate et al. 1996)</p> <p><b>Distribution:</b> Formerly across most of northern, central and western Australia (across a broad range of habitats), but now only recorded population on mainland Australia is within the Kimberley. Within the NT, the species is confined to the offshore islands of Arnhem Land. The only records from mainland NT are from the north-east corner of Arnhem Land between 1950 and 1980 (Palmer et al. 2012). Now extinct on the mainland except in a few locations in the north-west Kimberley (TSSC 2015).</p> <p><b>Records:</b> Six, all undated.</p>	<p><b>NONE</b></p> <ul style="list-style-type: none"> <li>• There is suitable habitat within the project footprint.</li> <li>• There are six undated old records for the region; however, this species is considered extinct from mainland NT.</li> <li>• The project footprint is not within the <i>expert distribution</i>.</li> </ul>
<b>Ghost Bat</b> <i>Macroderma gigas</i>	VU	-	<p><b>Habitat:</b> Ranging from the arid Pilbara to tropical savannah woodlands and north Qld rainforests (TSSC 2016). Permanent roost sites are generally deep natural caves or</p>	<p><b>LOW</b></p> <ul style="list-style-type: none"> <li>• There is suitable habitat throughout the project footprint.</li> </ul>

THREATENED SPECIES LIKELIHOOD ANALYSIS				
Name	Status		Summary	Likelihood of occurrence
	Cth	NT		
			<p>disused mines (TSSC 2016).</p> <p><b>Distribution:</b> Geographically-disjunct colonies occur in the Pilbara and Kimberley in WA, NT north of approximately 17° latitude (including Elcho Island and Groote Eylandt), the Gulf of Carpentaria, eastern Qld from Cape York to near Rockhampton, and western Qld (including Riversleigh and Camooweal districts) (TSSC 2016). Distribution likely influenced by the availability of suitable caves and mines for roost sites (Ward &amp; Milne 2016). Only 14 breeding sites known (Worthington Wilmer 2012). In arid Australia, including southern NT until the early 1960s (Ward &amp; Milne 2016).</p> <p><b>Records:</b> None from either bioregion. Nearest are scattered through central Arnhem Land.</p>	<p>There may be suitable roost sites.</p> <ul style="list-style-type: none"> <li>• There are no records for the region.</li> <li>• There is no <i>expert distribution</i> mapping.</li> </ul>
<p>*<b>Greater Bilby</b> <i>Macrotis lagotis</i></p>	VU	VU	<p><b>Habitat:</b> In the NT, hummock grasslands on sandy soils with a preference for palaeo-drainage lines (Southgate 1990). Has large foraging area and will move home range in search for food (Johnson 2008). In Qld, it occurs on clay plains dominated by Mitchell Grass.</p> <p><b>Distribution:</b> Historically widespread in arid Australia. Currently arid WA, the Tanami Desert in the NT and south-western Qld (Woinarski et al. 2014).</p> <p><b>Records:</b> None for either bioregion. Nearest are more than 200 km to the south-west.</p>	<p><b>NONE</b></p> <ul style="list-style-type: none"> <li>• There is no suitable habitat within the project footprint.</li> <li>• There are no records for the region.</li> <li>• There is no <i>expert distribution</i> mapping.</li> </ul>
<p>†<b>Humpback Whale</b> <i>Megaptera novaeangliae</i></p>	VU	-	<p><b>Habitat:</b> All major oceans, mostly in coastal and continental shelf waters (Reeves et al. 2002).</p> <p><b>Distribution:</b> Global. Annual migration from Antarctic feeding areas, through Australian waters to tropical breeding areas off the Kimberley coast in WA, and central Qld coast (DoE 2017). In the NT, only known from one beach-washed specimen on the Napier Peninsula (east Arnhem Land) in 1881 and a pair sighted west of Darwin in 2002 (Woinarski et al. 2012).</p> <p><b>Records:</b> None for the Gulf of Carpentaria.</p>	<p><b>LOW</b></p> <ul style="list-style-type: none"> <li>• There is suitable habitat within the marine section of the project footprint.</li> <li>• There are no records for the Gulf of Carpentaria and only two for other NT waters.</li> <li>• NT waters from Cobourg Peninsula westwards are mapped as 'likely' habitat; eastwards to Cape York (Qld) is attributed a likelihood as habitat (DoE 2017).</li> </ul>
<p>†<b>Black-footed Tree-rat (Kimberley and mainland Northern Territory subsp.)</b> <i>Mesembriomys gouldii gouldii</i></p>	EN	VU	<p><b>Habitat:</b> In the NT, found in tropical woodlands and open forests in coastal areas. Shelters in tree hollows and <i>Pandanus</i> stands during the day (Hill 2012).</p> <p><b>Distribution:</b> Kimberley in WA and Top End of the NT – but mainland only (TSSC 2015).</p> <p><b>Records:</b> Three for Gulf Coastal bioregion only – two undated, one from 1911 – all more than 200 km to the south-east.</p>	<p><b>LOW</b></p> <ul style="list-style-type: none"> <li>• There may be suitable habitat within the parts of the project footprint closer to the coast.</li> <li>• There are only three old records for the region, none proximate to the project footprint. This species has likely experienced a significant range contraction.</li> <li>• There is no <i>expert distribution</i> mapping.</li> </ul>
<p>†<b>Northern</b></p>	VU	VU	<p><b>Habitat:</b> Most often sandy substrates,</p>	<p><b>LOW</b></p>

THREATENED SPECIES LIKELIHOOD ANALYSIS				
Name	Status		Summary	Likelihood of occurrence
	Cth	NT		
<b>Hopping-mouse</b> <i>Notomys aquilo</i>			<p>seemingly favouring coastal sand dunes and sand sheets with a cover of tussock grass or heath. Also shrubland, Eucalypt open forest, and the margins of coastal rainforest thickets (Woinarski 2004; Woinarski &amp; Flannery 2008).</p> <p><b>Distribution:</b> Restricted to the NT – mostly Groote Eylandt, but also central north-east Arnhem Land. No confirmed records from the Australian mainland for at least 10 years (Woinarski et al. 2014).</p> <p><b>Records:</b> One across both bioregions – from 1930 approximately 10 km south of Port Roper.</p>	<ul style="list-style-type: none"> <li>There may be suitable habitat within the parts of the project footprint closer to the coast.</li> <li>There is one old record proximate to the project footprint. This is the only mainland record for hundreds of kilometres. This species has likely experienced a significant range contraction.</li> <li>The project footprint is at the southern limit of the <i>expert distribution (maybe)</i>.</li> </ul>
<b>†Northern Brush-tailed Phascogale</b> <i>Phascogale pirata</i>	VU	EN	<p><b>Habitat:</b> Tall open forests dominated by <i>Eucalyptus miniata</i> and <i>E. tetradonta</i> (Woinarski et al. 2012).</p> <p><b>Distribution:</b> Restricted to the Top End of the NT. Few records exist. Historically West Island, east Arnhem Land, Coburg Peninsula, Kakadu, Litchfield and the Tiwi Islands. Only recorded in Kakadu, Coburg Peninsula and the Tiwi Islands in the last 10 years (Woinarski et al. 2012).</p> <p><b>Records:</b> Ten, all from 1988 on the Sir Edward Pellew island group (more than 150 km to the south-east).</p>	<p><b>LOW</b></p> <ul style="list-style-type: none"> <li>There may be suitable habitat within the project footprint.</li> <li>There are no proximate records to the project footprint. This species has likely experienced a significant range contraction.</li> <li>The project footprint is at the southern limit of the <i>expert distribution (maybe)</i>.</li> </ul>
<b>Carpentarian Antechinus</b> <i>Pseudantechinus mimulus</i>	VU	-	<p><b>Habitat:</b> In NT, sloping sandstone hills with boulders, pavement, outcrops and rocky surface, with open woodland of <i>Eucalyptus tetradonta</i> and <i>E. aspera</i>, and a dense understorey and ground cover of <i>Plectrache pungens</i> (DoE 2017).</p> <p><b>Distribution:</b> In the NT, the Sir Edward Pellew island group and Pungalina-Seven Emu (mainland reserve south-west of Borroloola (Woinarski &amp; Ward 2012). Also a few records around Mount Isa in Qld (DoE 2017).</p> <p><b>Records:</b> None proximate. Nearest mainland records are more than 300 km to south-east.</p>	<p><b>NONE</b></p> <ul style="list-style-type: none"> <li>There may be suitable habitat within the project footprint.</li> <li>This species has a very restricted range that is not proximate to the project footprint.</li> <li>The project footprint is not within the <i>expert distribution</i>.</li> </ul>
<b>†Canefield Rat</b> <i>Rattus sordidus</i>	-	CR	<p><b>Habitat:</b> NT records all from coastal dunes and low-lying open woodlands with grassy understorey (Woinarski &amp; Ward 2012).</p> <p><b>Distribution:</b> Through north-eastern Australia, northern NSW and west to Normanton in Queensland (Woinarski &amp; Ward 2012). In the NT, known only from the Sir Edward Pellew island group.</p> <p><b>Records:</b> None on mainland, seven from Sir Edward Pellew island group more than 150 km to the south-east.</p>	<p><b>NONE</b></p> <ul style="list-style-type: none"> <li>There are no mainland NT records.</li> <li>There is no <i>expert distribution</i> mapping.</li> </ul>
<b>Pale Field-rat</b> <i>Rattus tunneyi</i>	-	VU	<p><b>Habitat:</b> Historically occurred in a wide range of habitats, but now primarily in dense vegetation along creeks (Aplin et al. 2008).</p> <p><b>Distribution:</b> Higher rainfall areas of northern Australia, extending from Kimberley</p>	<p><b>MEDIUM</b></p> <ul style="list-style-type: none"> <li>There may be suitable habitat within the project footprint (particularly along the Roper River and associated creeks).</li> </ul>

THREATENED SPECIES LIKELIHOOD ANALYSIS				
Name	Status		Summary	Likelihood of occurrence
	Cth	NT		
			<p>in WA to south-eastern Qld, including the Top End of the NT (Braithwaite &amp; Griffiths 1996).</p> <p><b>Records:</b> 197 – mostly from the Edward Pellow island group, with a few from Limmen River (approximately 70 km south-east). Two proximate to project area from 1982 and 1997.</p>	<ul style="list-style-type: none"> <li>There are two proximate records (most recently 1997).</li> <li>There is no <i>expert distribution</i> mapping.</li> </ul>
<p><b>Bare-rumped Sheath-tailed Bat</b> <i>Saccolaimus saccolaimus nudicluniat</i></p>	VU	-	<p><b>Habitat:</b> Mostly in lowland areas, in a range of woodland, forest and open environments (DoE 2017). In the NT, known from <i>Pandanus</i> woodland fringing the sedgelands of the South Alligator River and Eucalypt tall open forests (Friend &amp; Braithwaite 1986; Churchill 1998).</p> <p><b>Distribution:</b> India through south-eastern Asia to the Solomon Islands, and north-eastern Qld and the NT (Milne &amp; Woinarski 2006). Few scattered records in the NT. Most records are near-coastal (TSSC 2016).</p> <p><b>Records:</b> One, a specimen collected at Port Roper in 2001.</p>	<p><b>HIGH</b></p> <ul style="list-style-type: none"> <li>There is suitable habitat throughout the project footprint.</li> <li>There was a specimen of this species collected from Port Roper in 2001.</li> <li>There is no <i>expert distribution</i> mapping.</li> </ul>
<p><b>†Water Mouse or False Water Rat</b> <i>Xeromys myoides</i></p>	VU	-	<p><b>Habitat:</b> In the NT, not well documented due to a low number of records. Appears to utilise both intertidal and freshwater habitats, with most records from mangrove forests, saltmarsh, sedgelands, claypans and freshwater melaleuca wetlands (DoE 2017).</p> <p><b>Distribution:</b> Three regions of coastal Australia: the NT, central south Qld and south-east Qld (DoE 2017). In the NT, known only from coastal Top End with ten records at six sites – South Alligator River in 1903, Daly River floodplain in 1972, two sites on the Tomkinson River in 1975, Melville Island in 1975 and Glyde River floodplain in 1998 and 1999 (Woinarski 2006).</p> <p><b>Records:</b> None for either bioregion. Nearest about 300 km to the north.</p>	<p><b>MEDIUM</b></p> <ul style="list-style-type: none"> <li>There may be suitable habitat around the port section of the project footprint.</li> <li>There are no records for the region.</li> <li>The project footprint is within the <i>expert distribution (maybe)</i>.</li> </ul>
<p><b>*Carpentarian Rock-rat</b> <i>Zyomys palatalis</i></p>	EN	CR	<p><b>Habitat:</b> Restricted to sandstone gorges and escarpments containing a core of dry or wet rainforest vegetation, mixed with woodland, scree slopes and permanent water, surrounded by savannah woodlands (Puckey &amp; Woinarski 2006).</p> <p><b>Distribution:</b> Restricted to the NT, where known only from five locations within a radius of 35 km (Puckey 2003) at Wollgorang Station in the Gulf of Carpentaria (Kitchener 1989).</p> <p><b>Records:</b> All records are from Wollgorang Station approximately 350 km to the south-east.</p>	<p><b>NONE</b></p> <ul style="list-style-type: none"> <li>There may be suitable habitat within the project footprint.</li> <li>This species has a very restricted range that is not proximate to the project footprint.</li> <li>The project footprint is not within the <i>expert distribution</i>.</li> </ul>
<b>REPTILES</b>				
<p><b>*Plains Death Ader</b> <i>Acanthophis hawkei</i></p>	VU	VU	<p><b>Habitat:</b> Floodplains and cracking soil plains (Webb et al. 2002).</p> <p><b>Distribution:</b> Habitat mapping suggests the potential geographic range extends from</p>	<p><b>NONE</b></p> <ul style="list-style-type: none"> <li>There is no suitable habitat within the project footprint.</li> <li>There are no proximate records</li> </ul>

THREATENED SPECIES LIKELIHOOD ANALYSIS				
Name	Status		Summary	Likelihood of occurrence
	Cth	NT		
			western Qld, across the north of the NT to north-eastern WA. Fragmented populations occur in the Mitchell Grass Downs of western Qld, the Barkly Tablelands on the NT/Qld border and east of Darwin in the NT (TSSC 2012). <b>Records:</b> Two (1976 and 1980), nearest more than 240 km to the south-east.	from the region. <ul style="list-style-type: none"> <li>The project footprint is within the <i>expert distribution (maybe)</i>.</li> </ul>
<b>†Loggerhead Turtle</b> <i>Caretta caretta</i>	EN	VU	<b>Habitat:</b> Pelagic in tropical, sub-tropical and temperate waters. Nests mainly on sub-tropical sandy beaches (Marquez 1990). <b>Distribution:</b> Global, including the Australian coast (DoE 2017) where nesting is concentrated in southern Qld and from Shark Bay to the North West Cape in WA (DoE 2017). No breeding known to occur in the NT but records in NT waters (Taylor et al. 2006). <b>Records:</b> Three (1985) – Bing Bong near McArthur River. Only a few for the Gulf of Carpentaria.	<b>LOW</b> (foraging) <b>NONE</b> (breeding) <ul style="list-style-type: none"> <li>There is suitable habitat within the marine section of the project footprint.</li> <li>There are only a few records for the Gulf of Carpentaria, and none of nesting.</li> <li>There is no <i>expert distribution</i> mapping.</li> </ul>
<b>†Green Turtle</b> <i>Chelonia mydas</i>	VU	-	<b>Habitat:</b> Pelagic in tropical and subtropical waters, although individuals may also stray into temperate waters (Cogger et al. 1993). In the NT, nesting mainly on wide beaches backed by large dune systems (Chatto 1998). <b>Distribution:</b> Global. Nests, forages and migrates across tropical northern Australia, with main breeding sites being the Great Barrier Reef of Qld, the north-west shelf of WA, Wellesley Island group in the southern Gulf of Carpentaria and the Top End coast (DoE 2017). Many nesting sites in the NT, mostly from the western end of Melville Island to near NT/Qld border (Chatto 1998). <b>Records:</b> 42 – to the north and east of Roper River mouth.	<b>HIGH</b> (foraging) <b>MEDIUM</b> (breeding) <ul style="list-style-type: none"> <li>There is suitable habitat within the marine section of the project footprint.</li> <li>There are many records for the Gulf of Carpentaria. Chatto (2008) recorded high breeding activity in the Gulf of Carpentaria (second highest of the eight regions within the NT) – but not near the Roper River</li> <li>The project footprint is within the <i>expert distribution (likely)</i>.</li> </ul>
<b>†Leatherback Turtle</b> <i>Dermochelys coriacea</i>	EN	CR	<b>Habitat:</b> Pelagic in tropical, subtropical and temperate waters (DoE 2017). <b>Distribution:</b> Global, including the northern and eastern seabords of Australia (DoE 2017). No major nesting recorded in Australia. In the NT, only a few records in the waters off northern Arnhem Land and the Gulf of Carpentaria (Taylor et al. 2013). <b>Records:</b> Only a few for the Gulf of Carpentaria.	<b>MEDIUM</b> (foraging) <b>NONE</b> (breeding) <ul style="list-style-type: none"> <li>There is suitable habitat within the marine section of the project footprint.</li> <li>There are only a few records for the Gulf of Carpentaria, and none of nesting.</li> <li>The project footprint is within the <i>expert distribution (likely)</i>.</li> </ul>
<b>Gulf Snapping Turtle</b> <i>Elseya lavarackorum</i>	EN	-	<b>Habitat:</b> Large rivers and their associated overflow lagoons and oxbow lakes (Cogger 2000; Woinarski 2006). Found in deeper permanent pools most often with muddy, sandy or rocky bottoms. Also found in the middle reaches of rivers, upstream of saline regions and downstream of escarpments, including plunge pools. Steep rocky gorges, and river reaches with intact river banks seem to be preferred habitats (Thomson et	<b>NONE</b> <ul style="list-style-type: none"> <li>There is suitable habitat throughout the project footprint (the Roper River).</li> <li>There are no records from the Roper River. A closely-related species occurs instead.</li> <li>The project footprint is incorrectly assigned as being within the</li> </ul>

THREATENED SPECIES LIKELIHOOD ANALYSIS				
Name	Status		Summary	Likelihood of occurrence
	Cth	NT		
			<p>al. 1997).</p> <p><b>Distribution:</b> Rivers in far eastern NT and far western Qld that discharge into the Gulf of Carpentaria. In the NT, this includes the Roper, Limmen Bight, Robinson and Nicholson Rivers (DoE 2017).</p> <p><b>Records:</b> Seven (2006 to 2010) – one from about 150 km to the south-east, the remainder a further 150 km. However, DoE (2017) state that there are records for the Roper River.</p>	<i>expert distribution (likely).</i>
<p>†<b>Hawksbill Turtle</b> <i>Eretmochelys imbricata</i></p>	VU	-	<p><b>Habitat:</b> Tropical, sub-tropical and temperate waters (DoE 2017). In the NT, most nesting occurs on islands rather than mainland beaches. (Taylor et al. 2012).</p> <p><b>Distribution:</b> Global. In the NT, principal nesting sites are concentrated around north-eastern Arnhem land and Groote Eylandt (Chatto 1998).</p> <p><b>Records:</b> Very few for southern Gulf of Carpentaria.</p>	<p><b>MEDIUM</b> (foraging) <b>LOW</b> (breeding)</p> <ul style="list-style-type: none"> <li>• There is suitable habitat within the marine section of the project footprint.</li> <li>• There are many records for the Gulf of Carpentaria; however, Chatto (2008) recorded relatively low breeding activity (second lowest of the eight regions within the NT).</li> <li>• The project footprint is within the <i>expert distribution (likely).</i></li> </ul>
<p>†<b>Olive Ridley Turtle</b> <i>Lepidochelys olivacea</i></p>	EN	VU	<p><b>Habitat:</b> Tropical and subtropical waters, preferring shallow protected waters (DoE 2017). In the NT, breeds at a wide range of sites on island and, less commonly, mainland beaches (Chatto 1998).</p> <p><b>Distribution:</b> Global. In the NT, second most widespread nesting species (after Flatbacks) (Chatto &amp; Baker 2008). Vast majority of the nesting population recorded from Melville Island to Groote Eylandt (Chatto 1998).</p> <p><b>Records:</b> One near NT/Qld border. Very few records for southern or eastern Gulf of Carpentaria.</p>	<p><b>HIGH</b> (foraging) <b>LOW</b> (breeding)</p> <ul style="list-style-type: none"> <li>• There is suitable habitat within the marine section of the project footprint.</li> <li>• There are very few records for the Gulf of Carpentaria and Chatto (2008) recorded very low breeding activity (the lowest of the eight regions within the NT).</li> <li>• The project footprint is within the <i>expert distribution (likely).</i></li> </ul>
<p>†<b>Flatback Turtle</b> <i>Natator depressus</i></p>	VU	-	<p><b>Habitat:</b> Prefers shallow, soft-bottomed seabed habitats away from reefs (DoE 2017). In the NT, nests on a wide variety of beach types around the entire coastline (Chatto &amp; Baker 2008)</p> <p><b>Distribution:</b> Northern Australia and New Guinea, with all known breeding sites occurring only in Australia (DoE 2017). In the NT, the most widely spread marine turtle species, nesting around the entire coastline (Chatto 2008).</p> <p><b>Records:</b> 61 – mostly to the north and east of Roper River mouth.</p>	<p><b>HIGH</b> (foraging) <b>LOW</b> (breeding)</p> <ul style="list-style-type: none"> <li>• There is suitable habitat within the marine section of the project footprint.</li> <li>• There are many records for the Gulf of Carpentaria; however, Chatto (2008) recorded relatively low breeding activity (second lowest of the eight regions within the NT).</li> <li>• The project footprint is within the <i>expert distribution (likely).</i></li> </ul>
<p><b>Mertens' Water Monitor</b> <i>Varanus mertensi</i></p>	-	VU	<p><b>Habitat:</b> Semi-aquatic, occupying edges of watercourses and lagoons, but seldom seen far from water (Christian 2004).</p> <p><b>Distribution:</b> Across far northern Australia from the western Cape York Peninsula in Qld</p>	<p><b>HIGH</b></p> <ul style="list-style-type: none"> <li>• There is suitable habitat throughout the project footprint.</li> <li>• There are records from the region, including one from 2012 proximate</li> </ul>

THREATENED SPECIES LIKELIHOOD ANALYSIS				
Name	Status		Summary	Likelihood of occurrence
	Cth	NT		
			to the Kimberley in WA (Christian 2004). Widespread in the NT, occupying all of the Top End river systems (Ward et al. 2006). <b>Records:</b> 33 throughout both bioregions, most recently from 2002. Recorded at LD Creek 60km south-east of Deposit C in 2012 during surveys for the Sherwin EIS.	to the project footprint. The arrival of Cane Toads in the mid-1990's led to a drastic decline in the occurrence of monitor species (due to poisoning by ingestion) from which there has been some recovery by this species. <ul style="list-style-type: none"> <li>There is no <i>expert distribution</i> mapping.</li> </ul>
<b>Mitchell's Water Monitor</b> <i>Varanus mitchelli</i>	-	VU	<b>Habitat:</b> Semi-aquatic and arboreal, inhabiting margins of watercourses, swamps and lagoons (Ward 2012). <b>Distribution:</b> Top End of the NT and Kimberley in WA (Schultz & Doody 2004). In the NT, recorded in most catchments flowing into the Timor Sea, Arafura Sea and the Gulf of Carpentaria (Ward 2012). <b>Records:</b> 13 throughout both bioregions, most recently from 2003.	<b>HIGH</b> <ul style="list-style-type: none"> <li>There is suitable habitat throughout the project footprint.</li> <li>There are records from the region, but none from the past decade. The arrival of Cane Toads in the mid-1990's led to a drastic decline in the occurrence of monitor species (due to poisoning by ingestion) from which there has been some recovery by this species.</li> <li>There is no <i>expert distribution</i> mapping.</li> </ul>
<b>Floodplain Monitor</b> <i>Varanus panoptes</i>	-	VU	<b>Habitat:</b> Broad range of habitats from coastal beaches to savannah woodlands (Christian 2004). Also common throughout floodplains grasslands and a variety of native woodlands (Ward et al. 2012). <b>Distribution:</b> Across northern Australia from the Kimberley in WA to Cape York Peninsula, and southwards through most of Queensland. In the NT, recorded across most of the Top End and the Gulf Region (Christian 2004). <b>Records:</b> 15 from Gulf Coastal bioregion, most recently from 2003.	<b>MEDIUM</b> <ul style="list-style-type: none"> <li>There is suitable habitat throughout the project footprint.</li> <li>There are records from the region, but none from the past decade. The arrival of Cane Toads in the mid-1990's led to a drastic decline in the occurrence of monitor species (due to poisoning by ingestion) from which there may not have been significant recovery by this species.</li> <li>There is no <i>expert distribution</i> mapping.</li> </ul>
<b>FISH</b>				
<b>†Great White Shark</b> <i>Carcharodon carcharias</i>	VU	-	<b>Habitat:</b> Marine, anywhere between close inshore habitats (such as shallow coastal bays or reefs) and the outer continental shelf and slope areas (DoE 2017). <b>Distribution:</b> Globally in all seas in both hemispheres. In Australia, from central Qld the south coast to north-west WA (DoE 2017). There have been no verified sightings in the NT (DoE 2017). <b>Records:</b> None for the Gulf of Carpentaria.	<b>LOW</b> <ul style="list-style-type: none"> <li>There is suitable habitat within the marine section of the project footprint.</li> <li>There are no records for the Gulf of Carpentaria or other NT waters.</li> <li>The project footprint is <u>not</u> within the <i>expert distribution (maybe)</i>.</li> </ul>
<b>Spear-tooth Shark</b> <i>Glyphis glyphis</i>	CR	VU	<b>Habitat:</b> Tropical fresh water and marine environments (Bradshaw et al. 2008). May be restricted to low salinity environments such as freshwater or brackish areas of rivers (DOE, 2016). <b>Distribution:</b> Papua New Guinea and Northern Australia. Considered to be very rare in Australia as few specimens have	<b>MEDIUM</b> <ul style="list-style-type: none"> <li>There is suitable habitat within the port and marine sections of the project footprint.</li> <li>There are no records for the Gulf of Carpentaria.</li> <li>The project footprint is within the</li> </ul>

THREATENED SPECIES LIKELIHOOD ANALYSIS				
Name	Status		Summary	Likelihood of occurrence
	Cth	NT		
			<p>been collected (Cavenagh et al. 2003). Three distinct geographical locations in NT and northern Qld (DoE 2015). In the NT, recorded in the Alligator River region across to Adelaide River, and the Bizant River (Ward and Larson 2006).</p> <p><b>Records:</b> None for the Gulf of Carpentaria.</p>	<i>expert distribution (maybe).</i>
<p><b>Dwarf Sawfish</b> <i>Pristis clavata</i></p>	VU	VU	<p><b>Habitat:</b> Tropical marine and estuarine habitats, entering estuarine or fresh waters to breed during the wet season and moving into marine waters following the wet season (Peeverell 2005).</p> <p><b>Distribution:</b> Indonesia, South-East Asia and northern Australia (Cavenagh et al. 2003). In NT, known to occur around Darwin (including Buffalo Creek and Rapid Creek), in Kakadu National Park (Alligator River), and Keep River and Victoria River (Thornburn et al. 2003).</p> <p><b>Records:</b> One for the Gulf of Carpentaria (Qld side) from 1969.</p>	<p><b>MEDIUM</b></p> <ul style="list-style-type: none"> <li>• There is suitable habitat within the port and marine sections of the project footprint.</li> <li>• There is only one record for the Gulf of Carpentaria.</li> <li>• The project footprint is within the generalised <i>expert distribution</i>.</li> </ul>
<p><b>Freshwater or Largetooth Sawfish</b> <i>Pristis pristis</i> (previously known as <i>Pristis microdon</i>)</p>	VU	VU	<p><b>Habitat:</b> Tropical marine and estuarine habitats, entering estuarine or fresh waters to breed during the wet season and moving into marine waters following the wet season (Peeverell 2005).</p> <p><b>Distribution:</b> Circumtropical, with distinct populations in the eastern Atlantic, western Atlantic, eastern Pacific and Indo-West Pacific – including northern Australia (TSSC 2014). In the NT, reported in Adelaide, Victoria, Daly, East and South Alligator, Goomadeer, Roper, McArthur, Wearyan and Robinson Rivers (TSSC 2014).</p> <p><b>Records:</b> Two records for rivers draining into the Gulf of Carpentaria – one a specimen from Port Roper in 2010.</p>	<p><b>HIGH</b></p> <ul style="list-style-type: none"> <li>• There is suitable habitat within the port and marine sections of the project footprint.</li> <li>• There is a record from the Roper River.</li> <li>• The project footprint is within the <i>expert distribution (likely)</i>.</li> </ul>
<p><b>Green Sawfish</b> <i>Pristis zijsron</i></p>	VU	VU	<p><b>Habitat:</b> Tropical waters including marine inshore waters, estuaries, lagoons and freshwater. However, the majority of records are from marine or estuarine waters (Thornburn et al. 2003). The species enters estuarine or fresh waters to breed during the wet season and moves back into marine waters following the wet season (Peeverell 2005).</p> <p><b>Distribution:</b> Northern Australia, South-East Asia and the Indian Ocean (Cavenagh et al. 2003). Most frequently encountered of the sawfish species in Australian waters (Last &amp; Stevens 1994). Most commonly known from the Gulf of Carpentaria (Stevens et al. 2005). In the NT, specimens have only been collected from Buffalo Creek in Darwin (Stirrat et al. 2006).</p> <p><b>Records:</b> Four records for the NT side of the Gulf of Carpentaria (1997, two from 1980 and 1969)</p>	<p><b>HIGH</b></p> <ul style="list-style-type: none"> <li>• There is suitable habitat within the port and marine sections of the project footprint.</li> <li>• Fishing catch records show that the species inhabits all regions of the Gulf of Carpentaria, in low numbers and with a highly variable frequency of occurrence (Peeverell 2005).</li> <li>• The project footprint is within the <i>expert distribution (likely)</i>.</li> </ul>
<b>†Whale Shark</b>	VU	-	<b>Habitat:</b> Pelagic, in both oceanic and	<b>LOW</b>

THREATENED SPECIES LIKELIHOOD ANALYSIS				
Name	Status		Summary	Likelihood of occurrence
	Cth	NT		
<i>Rhincodon typus</i>			<p>coastal areas in tropical to warm-temperate waters. Most common in offshore open waters; however, often seen close to shore, and known to enter lagoons and atolls (DOE 2016).</p> <p><b>Distribution:</b> Records from NSW, Qld, NT and WA, occasionally sighted in Victoria and SA. Most common off the north-western WA coast (Ningaloo Reef) (DOE, 2016). Status and distribution within the NT is not well known, with only a few unconfirmed sightings (Woinarski &amp; Larson 2006).</p> <p><b>Records:</b> None for the Gulf of Carpentaria.</p>	<ul style="list-style-type: none"> <li>• There is suitable habitat within the marine section of the project footprint.</li> <li>• Unconfirmed to occur within NT waters (Woinarski &amp; Larson 2006) and no records for the Gulf of Carpentaria.</li> <li>• The project footprint is within the <i>expert distribution (maybe)</i>.</li> </ul>

\* Habitat occurs only in the Gulf Falls and Uplands bioregion

† Habitat occurs only in the Gulf Coastal bioregion

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