



# EPBC Act Protected Matters Report

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

Report created: 05-Oct-2022

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# Summary

## Matters of National Environment Significance

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

<a href="#">World Heritage Properties:</a>	3
<a href="#">National Heritage Places:</a>	11
<a href="#">Wetlands of International Importance (Ramsar</a>	1
<a href="#">Great Barrier Reef Marine Park:</a>	None
<a href="#">Commonwealth Marine Area:</a>	None
<a href="#">Listed Threatened Ecological Communities:</a>	13
<a href="#">Listed Threatened Species:</a>	109
<a href="#">Listed Migratory Species:</a>	84

## 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

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 Lands:</a>	479
<a href="#">Commonwealth Heritage Places:</a>	75
<a href="#">Listed Marine Species:</a>	106
<a href="#">Whales and Other Cetaceans:</a>	15
<a href="#">Critical Habitats:</a>	None
<a href="#">Commonwealth Reserves Terrestrial:</a>	None
<a href="#">Australian Marine Parks:</a>	None
<a href="#">Habitat Critical to the Survival of Marine Turtles:</a>	None

## Extra Information

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

<a href="#">State and Territory Reserves:</a>	10
<a href="#">Regional Forest Agreements:</a>	None
<a href="#">Nationally Important Wetlands:</a>	1
<a href="#">EPBC Act Referrals:</a>	85
<a href="#">Key Ecological Features (Marine):</a>	None
<a href="#">Biologically Important Areas:</a>	3
<a href="#">Bioregional Assessments:</a>	1
<a href="#">Geological and Bioregional Assessments:</a>	None

# Details

## Matters of National Environmental Significance

World Heritage Properties

[ Resource Information ]

Name	State	Legal Status	Buffer Status
<a href="#">Australian Convict Sites (Cockatoo Island Convict Site)</a>	NSW	Declared property	In buffer area only
<a href="#">Australian Convict Sites (Hyde Park Barracks)</a>	NSW	Declared property	In buffer area only
<a href="#">Sydney Opera House</a>	NSW	Declared property	In buffer area only

National Heritage Places

[ Resource Information ]

Name	State	Legal Status	Buffer Status
Historic			
<a href="#">Bondi Beach</a>	NSW	Listed place	In buffer area only
<a href="#">Bondi Surf Pavilion</a>	NSW	Within listed place	In buffer area only
<a href="#">Centennial Park</a>	NSW	Listed place	In buffer area only
<a href="#">Cockatoo Island</a>	NSW	Listed place	In buffer area only
<a href="#">First Government House Site</a>	NSW	Listed place	In buffer area only
<a href="#">Governors' Domain and Civic Precinct</a>	NSW	Listed place	In buffer area only
<a href="#">Hyde Park Barracks</a>	NSW	Listed place	In buffer area only
<a href="#">North Head - Sydney</a>	NSW	Listed place	In buffer area only
<a href="#">Sydney Harbour Bridge</a>	NSW	Listed place	In feature area
<a href="#">Sydney Opera House</a>	NSW	Listed place	In buffer area only

Indigenous

<a href="#">Cyprus Hellene Club - Australian Hall</a>	NSW	Listed place	In buffer area only
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Wetlands of International Importance (Ramsar Wetlands)

[ Resource Information ]

Ramsar Site Name	Proximity	Buffer Status
<a href="#">Towra point nature reserve</a>	Within 10km of Ramsar site	In buffer area only

Listed Threatened Ecological Communities

[ Resource Information ]

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

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

Community Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Castlereagh Scribbly Gum and Agnes Banks Woodlands of the Sydney Basin Bioregion</a>	Endangered	Community may occur	In buffer area only within area
<a href="#">Coastal Swamp Oak (Casuarina glauca) Forest of New South Wales and South East Queensland ecological community</a>	Endangered	Community likely to occur	In feature area within area
<a href="#">Coastal Swamp Sclerophyll Forest of New South Wales and South East Queensland</a>	Endangered	Community may occur	In feature area within area
<a href="#">Coastal Upland Swamps in the Sydney Basin Bioregion</a>	Endangered	Community likely to occur	In feature area within area
<a href="#">Cooks River/Castlereagh Ironbark Forest of the Sydney Basin Bioregion</a>	Critically Endangered	Community may occur	In buffer area only within area
<a href="#">Eastern Suburbs Banksia Scrub of the Sydney Region</a>	Critically Endangered	Community likely to occur	In feature area within area
<a href="#">Littoral Rainforest and Coastal Vine Thickets of Eastern Australia</a>	Critically Endangered	Community likely to occur	In buffer area only within area
<a href="#">Posidonia australis seagrass meadows of the Manning-Hawkesbury ecoregion</a>	Endangered	Community likely to occur	In buffer area only within area
<a href="#">River-flat eucalypt forest on coastal floodplains of southern New South Wales and eastern Victoria</a>	Critically Endangered	Community likely to occur	In feature area within area
<a href="#">Shale Sandstone Transition Forest of the Sydney Basin Bioregion</a>	Critically Endangered	Community may occur	In buffer area only within area
<a href="#">Subtropical and Temperate Coastal Saltmarsh</a>	Vulnerable	Community likely to occur	In buffer area only within area
<a href="#">Turpentine-Ironbark Forest of the Sydney Basin Bioregion</a>	Critically Endangered	Community likely to occur	In buffer area only within area
<a href="#">Western Sydney Dry Rainforest and Moist Woodland on Shale</a>	Critically Endangered	Community may occur	In buffer area only within area

Listed Threatened Species

[ Resource Information ]

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

Number is the current name ID.

Scientific Name	Threatened Category	Presence Text	Buffer Status
BIRD			

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Anthochaera phrygia</a> Regent Honeyeater [82338]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Botaurus poiciloptilus</a> Australasian Bittern [1001]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In buffer area only
<a href="#">Calidris tenuirostris</a> Great Knot [862]	Critically Endangered	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Callocephalon fimbriatum</a> Gang-gang Cockatoo [768]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Calyptorhynchus lathami lathami</a> South-eastern Glossy Black-Cockatoo [67036]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Charadrius leschenaultii</a> Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Charadrius mongolus</a> Lesser Sand Plover, Mongolian Plover [879]	Endangered	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Dasyornis brachypterus</a> Eastern Bristlebird [533]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Diomedea antipodensis</a> Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Diomedea antipodensis gibsoni</a> Gibson's Albatross [82270]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Diomedea epomophora</a> Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Diomedea exulans</a> Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Diomedea sanfordi</a> Northern Royal Albatross [64456]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Erythroriorchis radiatus</a> Red Goshawk [942]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Falco hypoleucos</a> Grey Falcon [929]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Fregetta grallaria grallaria</a> White-bellied Storm-Petrel (Tasman Sea), White-bellied Storm-Petrel (Australasian) [64438]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Grantiella picta</a> Painted Honeyeater [470]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Hirundapus caudacutus</a> White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Lathamus discolor</a> Swift Parrot [744]	Critically Endangered	Species or species habitat known to occur within area	In buffer area only
<a href="#">Limosa lapponica baueri</a> Nunivak Bar-tailed Godwit, Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat known to occur within area	In feature area



Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Macronectes giganteus</a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Macronectes halli</a> Northern Giant Petrel [1061]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Neophema chrysogaster</a> Orange-bellied Parrot [747]	Critically Endangered	Species or species habitat may occur within area	In buffer area only
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Pachyptila turtur subantarctica</a> Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Phoebetria fusca</a> Sooty Albatross [1075]	Vulnerable	Species or species habitat may occur within area	In buffer area only
<a href="#">Pterodroma leucoptera leucoptera</a> Gould's Petrel, Australian Gould's Petrel [26033]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Pterodroma neglecta neglecta</a> Kermadec Petrel (western) [64450]	Vulnerable	Foraging, feeding or related behaviour may occur within area	In feature area
<a href="#">Pycnoptilus floccosus</a> Pilotbird [525]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Rostratula australis</a> Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Sternula nereis nereis</a> Australian Fairy Tern [82950]	Vulnerable	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Thalassarche bulleri</a> Buller's Albatross, Pacific Albatross [64460]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Thalassarche bulleri platei</a> Northern Buller's Albatross, Pacific Albatross [82273]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Thalassarche carteri</a> Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Thalassarche cauta</a> Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Thalassarche eremita</a> Chatham Albatross [64457]	Endangered	Foraging, feeding or related behaviour may occur within area	In feature area
<a href="#">Thalassarche impavida</a> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Thalassarche melanophris</a> Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Thalassarche salvini</a> Salvin's Albatross [64463]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Thalassarche steadi</a> White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
FISH			
<a href="#">Epinephelus daemeli</a> Black Rockcod, Black Cod, Saddled Rockcod [68449]	Vulnerable	Species or species habitat likely to occur within area	In feature area



Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Hippocampus whitei</a> White's Seahorse, Crowned Seahorse, Sydney Seahorse [66240]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Macquaria australasica</a> Macquarie Perch [66632]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Prototroctes maraena</a> Australian Grayling [26179]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Serirolella brama</a> Blue Warehou [69374]	Conservation Dependent	Species or species habitat known to occur within area	In feature area
<a href="#">Thunnus maccoyii</a> Southern Bluefin Tuna [69402]	Conservation Dependent	Species or species habitat likely to occur within area	In feature area
FROG			
<a href="#">Heleioporus australiacus</a> Giant Burrowing Frog [1973]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Litoria aurea</a> Green and Golden Bell Frog [1870]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Mixophyes balbus</a> Stuttering Frog, Southern Barred Frog (in Victoria) [1942]	Vulnerable	Species or species habitat likely to occur within area	In feature area
MAMMAL			
<a href="#">Balaenoptera borealis</a> Sei Whale [34]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Balaenoptera physalus</a> Fin Whale [37]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
<a href="#">Chalinolobus dwyeri</a> Large-eared Pied Bat, Large Pied Bat [183]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Dasyurus maculatus maculatus (SE mainland population)</a> Spot-tailed Quoll, Spotted-tail Quoll, Tiger Quoll (southeastern mainland population) [75184]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Eubalaena australis</a> Southern Right Whale [40]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Isoodon obesulus obesulus</a> Southern Brown Bandicoot (eastern), Southern Brown Bandicoot (south-eastern) [68050]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Petauroides volans</a> Greater Glider (southern and central) [254]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Petaurus australis australis</a> Yellow-bellied Glider (south-eastern) [87600]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Petrogale penicillata</a> Brush-tailed Rock-wallaby [225]	Vulnerable	Species or species habitat may occur within area	In buffer area only
<a href="#">Phascolarctos cinereus (combined populations of Qld, NSW and the ACT)</a> Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Pseudomys novaehollandiae</a> New Holland Mouse, Pookila [96]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
<a href="#">Pteropus poliocephalus</a> Grey-headed Flying-fox [186]	Vulnerable	Roosting known to occur within area	In feature area
OTHER			

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Dendronephthya australis</a> Cauliflower Soft Coral [90325]	Endangered	Species or species habitat known to occur within area	In buffer area only
PLANT			
<a href="#">Acacia bynoeana</a> Bynoe's Wattle, Tiny Wattle [8575]	Vulnerable	Species or species habitat may occur within area	In buffer area only
<a href="#">Acacia pubescens</a> Downy Wattle, Hairy Stemmed Wattle [18800]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
<a href="#">Acacia terminalis subsp. terminalis MS</a> Sunshine Wattle (Sydney region) [88882]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Allocasuarina glareicola</a> [21932]	Endangered	Species or species habitat may occur within area	In buffer area only
<a href="#">Allocasuarina portuensis</a> Nielsen Park She-oak [21937]	Endangered	Species or species habitat known to occur within area	In buffer area only
<a href="#">Asterolasia elegans</a> [56780]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Caladenia tessellata</a> Thick-lipped Spider-orchid, Daddy Long-legs [2119]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Cryptostylis hunteriana</a> Leafless Tongue-orchid [19533]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Cynanchum elegans</a> White-flowered Wax Plant [12533]	Endangered	Species or species habitat likely to occur within area	In buffer area only
<a href="#">Darwinia biflora</a> [14619]	Vulnerable	Species or species habitat known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Deyeuxia appressa</a> [7438]	Endangered	Species or species habitat likely to occur within area	In buffer area only
<a href="#">Eucalyptus camfieldii</a> Camfield's Stringybark [15460]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Genoplesium baueri</a> Yellow Gnat-orchid, Bauer's Midge Orchid, Brittle Midge Orchid [7528]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Grevillea caleyi</a> Caley's Grevillea [9683]	Critically Endangered	Species or species habitat known to occur within area	In buffer area only
<a href="#">Haloragodendron lucasii</a> Hal [6480]	Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Lasiopetalum joyceae</a> [20311]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
<a href="#">Leptospermum deanei</a> Deane's Tea-tree [21777]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
<a href="#">Melaleuca biconvexa</a> Biconvex Paperbark [5583]	Vulnerable	Species or species habitat may occur within area	In buffer area only
<a href="#">Melaleuca deanei</a> Deane's Melaleuca [5818]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Persicaria elatior</a> Knotweed, Tall Knotweed [5831]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Persoonia hirsuta</a> Hairy Geebung, Hairy Persoonia [19006]	Endangered	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Pimelea curviflora var. curviflora</a> [4182]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Pimelea spicata</a> Spiked Rice-flower [20834]	Endangered	Species or species habitat may occur within area	In buffer area only
<a href="#">Prostanthera densa</a> Villous Mintbush [12233]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Prostanthera junonis</a> Somersby Mintbush [64960]	Endangered	Species or species habitat known to occur within area	In buffer area only
<a href="#">Prostanthera marifolia</a> Seaforth Mintbush [7555]	Critically Endangered	Species or species habitat known to occur within area	In buffer area only
<a href="#">Rhizanthella slateri</a> Eastern Underground Orchid [11768]	Endangered	Species or species habitat may occur within area	In buffer area only
<a href="#">Rhodamnia rubescens</a> Scrub Turpentine, Brown Malletwood [15763]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Rhodomyrtus psidioides</a> Native Guava [19162]	Critically Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Syzygium paniculatum</a> Magenta Lilly Pilly, Magenta Cherry, Daguba, Scrub Cherry, Creek Lilly Pilly, Brush Cherry [20307]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Thesium australe</a> Austral Toadflax, Toadflax [15202]	Vulnerable	Species or species habitat likely to occur within area	In feature area
REPTILE			
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Hoplocephalus bungaroides</a> Broad-headed Snake [1182]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
SHARK			
<a href="#">Carcharias taurus (east coast population)</a> Grey Nurse Shark (east coast population) [68751]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Carcharodon carcharias</a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Galeorhinus galeus</a> School Shark, Eastern School Shark, Snapper Shark, Tope, Soupfin Shark [68453]	Conservation Dependent	Species or species habitat may occur within area	In feature area
<a href="#">Rhincodon typus</a> Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Sphyrna lewini</a> Scalloped Hammerhead [85267]	Conservation Dependent	Species or species habitat likely to occur within area	In feature area
SNAIL			



Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Meridolum maryae</a> Maroubra Woodland Snail, Maroubra Land Snail [89884]	Endangered	Species or species habitat known to occur within area	In buffer area only
<a href="#">Pommerhelix duralensis</a> Dural Land Snail [85268]	Endangered	Species or species habitat likely to occur within area	In buffer area only

Listed Migratory Species		[ Resource Information ]	
Scientific Name	Threatened Category	Presence Text	Buffer Status
Migratory Marine Birds			
<a href="#">Anous stolidus</a> Common Noddy [825]		Species or species habitat likely to occur within area	In feature area
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area	In feature area
<a href="#">Ardenna carneipes</a> Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Ardenna grisea</a> Sooty Shearwater [82651]		Species or species habitat likely to occur within area	In feature area
<a href="#">Calonectris leucomelas</a> Streaked Shearwater [1077]		Species or species habitat known to occur within area	In feature area
<a href="#">Diomedea antipodensis</a> Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Diomedea epomophora</a> Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Diomedea exulans</a> Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Diomedea sanfordi</a> Northern Royal Albatross [64456]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Fregata ariel</a> Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat known to occur within area	In feature area
<a href="#">Fregata minor</a> Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat may occur within area	In feature area
<a href="#">Macronectes giganteus</a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Macronectes halli</a> Northern Giant Petrel [1061]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Phaethon lepturus</a> White-tailed Tropicbird [1014]		Species or species habitat known to occur within area	In feature area
<a href="#">Phoebetria fusca</a> Sooty Albatross [1075]	Vulnerable	Species or species habitat may occur within area	In buffer area only
<a href="#">Sternula albifrons</a> Little Tern [82849]		Breeding likely to occur within area	In feature area
<a href="#">Thalassarche bulleri</a> Buller's Albatross, Pacific Albatross [64460]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Thalassarche carteri</a> Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Thalassarche cauta</a> Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Thalassarche eremita</a> Chatham Albatross [64457]	Endangered	Foraging, feeding or related behaviour may occur within area	In feature area
<a href="#">Thalassarche impavida</a> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Thalassarche melanophris</a> Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Thalassarche salvini</a> Salvin's Albatross [64463]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Thalassarche steadi</a> White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
Migratory Marine Species			
<a href="#">Balaenoptera borealis</a> Sei Whale [34]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
<a href="#">Balaenoptera edeni</a> Bryde's Whale [35]		Species or species habitat may occur within area	In feature area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Balaenoptera physalus</a> Fin Whale [37]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
<a href="#">Caperea marginata</a> Pygmy Right Whale [39]		Foraging, feeding or related behaviour may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Carcharhinus longimanus</a> Oceanic Whitetip Shark [84108]		Species or species habitat may occur within area	In feature area
<a href="#">Carcharodon carcharias</a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Dugong dugon</a> Dugong [28]		Species or species habitat may occur within area	In buffer area only
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Eubalaena australis as Balaena glacialis australis</a> Southern Right Whale [40]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Lagenorhynchus obscurus</a> Dusky Dolphin [43]		Species or species habitat may occur within area	In feature area
<a href="#">Lamna nasus</a> Porbeagle, Mackerel Shark [83288]		Species or species habitat likely to occur within area	In feature area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]		Species or species habitat known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Mobula alfredi as Manta alfredi</a> Reef Manta Ray, Coastal Manta Ray [90033]		Species or species habitat known to occur within area	In feature area
<a href="#">Mobula birostris as Manta birostris</a> Giant Manta Ray [90034]		Species or species habitat may occur within area	In feature area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Orcinus orca</a> Killer Whale, Orca [46]		Species or species habitat likely to occur within area	In buffer area only
<a href="#">Rhincodon typus</a> Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area	In feature area
Migratory Terrestrial Species			
<a href="#">Cuculus optatus</a> Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat known to occur within area	In feature area
<a href="#">Hirundapus caudacutus</a> White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Monarcha melanopsis</a> Black-faced Monarch [609]		Species or species habitat known to occur within area	In feature area
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		Species or species habitat known to occur within area	In feature area
<a href="#">Myiagra cyanoleuca</a> Satin Flycatcher [612]		Species or species habitat known to occur within area	In feature area
<a href="#">Rhipidura rufifrons</a> Rufous Fantail [592]		Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Symposiachrus trivirgatus as Monarcha trivirgatus</a> Spectacled Monarch [83946]		Species or species habitat known to occur within area	In feature area
Migratory Wetlands Species			
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
<a href="#">Arenaria interpres</a> Ruddy Turnstone [872]		Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]		Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Calidris alba</a> Sanderling [875]		Species or species habitat known to occur within area	In buffer area only
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In buffer area only
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat known to occur within area	In feature area
<a href="#">Calidris ruficollis</a> Red-necked Stint [860]		Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Calidris subminuta</a> Long-toed Stint [861]		Species or species habitat known to occur within area	In buffer area only



Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Calidris tenuirostris</a> Great Knot [862]	Critically Endangered	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Charadrius bicinctus</a> Double-banded Plover [895]		Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Charadrius leschenaultii</a> Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Charadrius mongolus</a> Lesser Sand Plover, Mongolian Plover [879]	Endangered	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Charadrius veredus</a> Oriental Plover, Oriental Dotterel [882]		Species or species habitat known to occur within area	In buffer area only
<a href="#">Gallinago hardwickii</a> Latham's Snipe, Japanese Snipe [863]		Species or species habitat known to occur within area	In feature area
<a href="#">Gallinago megala</a> Swinhoe's Snipe [864]		Foraging, feeding or related behaviour likely to occur within area	In buffer area only
<a href="#">Gallinago stenura</a> Pin-tailed Snipe [841]		Foraging, feeding or related behaviour likely to occur within area	In buffer area only
<a href="#">Limicola falcinellus</a> Broad-billed Sandpiper [842]		Species or species habitat known to occur within area	In buffer area only
<a href="#">Limosa lapponica</a> Bar-tailed Godwit [844]		Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Limosa limosa</a> Black-tailed Godwit [845]	Critically Endangered	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]		Species or species habitat known to occur within area	In feature area
<a href="#">Numenius minutus</a> Little Curlew, Little Whimbrel [848]		Foraging, feeding or related behaviour likely to occur within area	In buffer area only
<a href="#">Numenius phaeopus</a> Whimbrel [849]		Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Pandion haliaetus</a> Osprey [952]		Species or species habitat known to occur within area	In buffer area only
<a href="#">Philomachus pugnax</a> Ruff (Reeve) [850]	Threatened	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Pluvialis fulva</a> Pacific Golden Plover [25545]		Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Pluvialis squatarola</a> Grey Plover [865]		Species or species habitat known to occur within area	In buffer area only
<a href="#">Tringa brevipes</a> Grey-tailed Tattler [851]		Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Tringa incana</a> Wandering Tattler [831]		Species or species habitat known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Tringa nebularia</a>			
Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area	In feature area
<a href="#">Tringa stagnatilis</a>			
Marsh Sandpiper, Little Greenshank [833]		Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Xenus cinereus</a>			
Terek Sandpiper [59300]		Species or species habitat known to occur within area	In buffer area only

### Other Matters Protected by the EPBC Act

Commonwealth Lands

[ [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.

Commonwealth Land Name	State	Buffer Status
Australian National University		
Commonwealth Land - Australian National University [13156]	NSW	In buffer area only
Commonwealth Bank of Australia		
Commonwealth Land - Commonwealth Bank of Australia [13158]	NSW	In buffer area only
Commonwealth Land - Commonwealth Bank of Australia [14331]	NSW	In buffer area only
Commonwealth Trading Bank of Australia		
Commonwealth Land - Commonwealth Trading Bank of Australia [13209]	NSW	In buffer area only
Commonwealth Land - Commonwealth Trading Bank of Australia [14337]	NSW	In buffer area only
Commonwealth Land - Commonwealth Trading Bank of Australia [14322]	NSW	In buffer area only
Commonwealth Land - Commonwealth Trading Bank of Australia [14323]	NSW	In buffer area only
Commonwealth Land - Commonwealth Trading Bank of Australia [14325]	NSW	In buffer area only
Communications, Information Technology and the Arts - Australian Broadcasting Corporation		
Commonwealth Land - Australian Broadcasting Commission [13116]	NSW	In buffer area only
Commonwealth Land - Australian Broadcasting Commission [13112]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Australian Broadcasting Commission [13113]	NSW	In buffer area only
Commonwealth Land - Australian Broadcasting Commission [15605]	NSW	In buffer area only
Commonwealth Land - Australian Broadcasting Corporation [13115]	NSW	In buffer area only
Commonwealth Land - Australian Broadcasting Corporation [13117]	NSW	In buffer area only
Commonwealth Land - Australian Broadcasting Corporation [13114]	NSW	In buffer area only
Commonwealth Land - Australian Broadcasting Corporation [13111]	NSW	In buffer area only
Commonwealth Land - Australian Broadcasting Corporation [13110]	NSW	In buffer area only
Commonwealth Land - Australian Broadcasting Corporation [13107]	NSW	In buffer area only
Commonwealth Land - Australian Broadcasting Corporation [13106]	NSW	In buffer area only
Commonwealth Land - Australian Broadcasting Corporation [13109]	NSW	In buffer area only
Commonwealth Land - Australian Broadcasting Corporation [13108]	NSW	In buffer area only
Commonwealth Land - Australian Broadcasting Corporation [15511]	NSW	In buffer area only
Commonwealth Land - Australian Broadcasting Corporation [15606]	NSW	In buffer area only
Commonwealth Land - Australian Broadcasting Corporation [15607]	NSW	In buffer area only
Communications, Information Technology and the Arts - Australian Postal Corporation		
Commonwealth Land - Australian Postal Commission [13153]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [13099]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [14284]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [14348]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [14280]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [14391]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [13094]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [13091]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [13047]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [13121]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [14384]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [14366]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Australian Postal Commission [13215]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [13104]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [13195]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [14338]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [13291]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [13118]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [13134]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [13131]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [13137]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [14324]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [14328]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [15537]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [14329]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [15538]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [13055]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [14326]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [13164]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [14350]	NSW	In buffer area only
Commonwealth Land - Australian Postal Commission [13290]	NSW	In buffer area only
Commonwealth Land - Australian Postal Corporation [14342]	NSW	In buffer area only
Commonwealth Land - Australian Postal Corporation [14343]	NSW	In buffer area only
Commonwealth Land - Australian Postal Corporation [16164]	NSW	In buffer area only
Commonwealth Land - Australian Postal Corporation [13152]	NSW	In buffer area only
Commonwealth Land - Australian Postal Corporation [16009]	NSW	In buffer area only
Commonwealth Land - Australian Postal Corporation [15898]	NSW	In buffer area only
Commonwealth Land - Australian Postal Corporation [13214]	NSW	In buffer area only
Commonwealth Land - Australian Postal Corporation [16021]	NSW	In buffer area only



Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Australian Postal Corporation [15603]	NSW	In buffer area only
Commonwealth Land - Australian Postal Corporation [16174]	NSW	In buffer area only
Communications, Information Technology and the Arts - Telstra Corporation Limited		
Commonwealth Land - Australian & Overseas Telecommunications Corporation [13155]	NSW	In buffer area only
Commonwealth Land - Australian & Overseas Telecommunications Corporation [16072]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13157]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13154]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13136]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13095]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13097]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13093]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13092]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13129]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14383]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14279]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14388]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13216]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13194]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14285]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13132]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14281]	NSW	In buffer area only



Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Australian Telecommunications Commission [14405]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13057]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13119]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14327]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13128]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13162]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14351]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [13293]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Commission [14402]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Corporation [13130]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Corporation [14286]	NSW	In buffer area only
Commonwealth Land - Australian Telecommunications Corporation [13292]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14283]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14282]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14349]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14340]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14341]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [13187]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14385]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [15504]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14368]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [13213]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Telstra Corporation Limited [13100]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14339]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14333]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14332]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14410]	NSW	In buffer area only
Commonwealth Land - Telstra Corporation Limited [14287]	NSW	In buffer area only
Defence		
Commonwealth Land - Defence Service Homes Corporation [13210]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [13211]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [13064]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [13054]	NSW	In buffer area only
Commonwealth Land - Defence Service Homes Corporation [14352]	NSW	In buffer area only
Commonwealth Land - Director of Defence Service Homes [13208]	NSW	In buffer area only
Defence - 21 CONST REGT - HABERFIELD DEPOT [11099]	NSW	In buffer area only
Defence - 21 CONST REGT - HABERFIELD DEPOT [11098]	NSW	In buffer area only
Defence - 21 CONST REGT - HABERFIELD DEPOT [11106]	NSW	In buffer area only
Defence - 21 CONST REGT - HABERFIELD DEPOT [11105]	NSW	In buffer area only
Defence - 21 CONST REGT - HABERFIELD DEPOT [11107]	NSW	In buffer area only
Defence - 21 CONST REGT - HABERFIELD DEPOT [11104]	NSW	In buffer area only
Defence - 21 CONST REGT - HABERFIELD DEPOT [11102]	NSW	In buffer area only
Defence - 21 CONST REGT - HABERFIELD DEPOT [11103]	NSW	In buffer area only
Defence - 21 CONST REGT - HABERFIELD DEPOT [11101]	NSW	In buffer area only
Defence - 21 CONST REGT - HABERFIELD DEPOT [11108]	NSW	In buffer area only
Defence - 21 CONST REGT - HABERFIELD DEPOT [11100]	NSW	In buffer area only
Defence - COCKATOO ISLAND DOCKYARD [10018]	NSW	In buffer area only
Defence - DEFENCE PLAZA SYDNEY [11179]	NSW	In buffer area only
Defence - DEGAUSSING RANGE [10039]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - DSTO PYRMONT - (SEE SITE 1177) [10015]	NSW	In buffer area only
Defence - DSTO PYRMONT - (SEE SITE 1177) [10016]	NSW	In buffer area only
Defence - DSTO PYRMONT - (SEE SITE 1177) [10017]	NSW	In buffer area only
Defence - ENDEAVOUR HOUSE - COOGEE [11172]	NSW	In buffer area only
Defence - FLEET BASE WHARVES [10021]	NSW	In buffer area only
Defence - FLEET BASE WHARVES [10022]	NSW	In buffer area only
Defence - FLEET BASE WHARVES [10023]	NSW	In buffer area only
Defence - FLEET BASE WHARVES [10024]	NSW	In buffer area only
Defence - FOREST LODGE (SYDNEY) TRG DEP [10071]	NSW	In buffer area only
Defence - GARDEN ISLAND [10014]	NSW	In buffer area only
Defence - GLADESVILLE TRAINING DEPOT [10012]	NSW	In buffer area only
Defence - HMAS KUTTABUL (AC 30/5 Lot4 DP218946) [11074]	NSW	In buffer area only
Defence - HMAS PENGUIN [11071]	NSW	In buffer area only
Defence - HMAS PLATYPUS - SPDU FOR DISPOSAL [10042]	NSW	In feature area
Defence - HMAS PLATYPUS - SPDU FOR DISPOSAL [10041]	NSW	In feature area
Defence - HMAS PLATYPUS - SPDU FOR DISPOSAL [10040]	NSW	In feature area
Defence - HMAS WATERHEN [10025]	NSW	In buffer area only
Defence - HMAS WATSON [10029]	NSW	In buffer area only
Defence - JENNER BUILDING [10034]	NSW	In buffer area only
Defence - KENSINGTON DEPOT [11110]	NSW	In buffer area only
Defence - KISMET/HMAS KUTTABUL-POTTS PT [11173]	NSW	In buffer area only
Defence - LADY GOWRIE HOUSE [10045]	NSW	In buffer area only
Defence - LADY GOWRIE HOUSE [10047]	NSW	In buffer area only
Defence - LADY GOWRIE HOUSE [10046]	NSW	In buffer area only
Defence - LEICHHARDT STORES DEPOT [11112]	NSW	In buffer area only
Defence - MARITIME COMD CTRE-POTTS POINT ; BOMERAH/TARANA [10033]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - MARITIME COMD CTRE-POTTS POINT ; BOMERAH/TARANA [10032]	NSW	In buffer area only
Defence - MARITIME HEADQUARTERS [11178]	NSW	In buffer area only
Defence - MATERIAL RESEARCH LAB [10013]	NSW	In buffer area only
Defence - MILLER'S POINT TRAINING DEPOT [11118]	NSW	In buffer area only
Defence - NFI CHOWDER BAY (fuel depot) [10043]	NSW	In buffer area only
Defence - NORTH SYDNEY - HYDRO OFFICE [11161]	NSW	In buffer area only
Defence - OXFORD ST SYDNEY [11169]	NSW	In buffer area only
Defence - OXFORD ST SYDNEY [11166]	NSW	In buffer area only
Defence - OXFORD ST SYDNEY [11167]	NSW	In buffer area only
Defence - OXFORD ST SYDNEY [11164]	NSW	In buffer area only
Defence - OXFORD ST SYDNEY [11168]	NSW	In buffer area only
Defence - OXFORD ST SYDNEY [11165]	NSW	In buffer area only
Defence - PARKVIEW BUILDING - SYDNEY [11170]	NSW	In buffer area only
Defence - RANDWICK (CARRINGTON RD) [11132]	NSW	In buffer area only
Defence - RANDWICK (CARRINGTON RD) [11133]	NSW	In buffer area only
Defence - RANDWICK (CARRINGTON RD) [11135]	NSW	In buffer area only
Defence - RANDWICK (CARRINGTON RD) [11134]	NSW	In buffer area only
Defence - RANDWICK BARRACKS [11124]	NSW	In buffer area only
Defence - RANDWICK BARRACKS [11125]	NSW	In buffer area only
Defence - RANDWICK BARRACKS [11126]	NSW	In buffer area only
Defence - RANDWICK BARRACKS [11127]	NSW	In buffer area only
Defence - RANDWICK BARRACKS [11129]	NSW	In buffer area only
Defence - RANDWICK BARRACKS [11130]	NSW	In buffer area only
Defence - RANDWICK BARRACKS [11131]	NSW	In buffer area only
Defence - RANDWICK BARRACKS [11128]	NSW	In buffer area only
Defence - RANDWICK FRENCHMANS TRG [11162]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Defence - RANDWICK FRENCHMANS TRG [11163]	NSW	In buffer area only
Defence - SPECTACLE ISLAND [10035]	NSW	In buffer area only
Defence - SPECTACLE ISLAND [10036]	NSW	In buffer area only
Defence - SPECTACLE ISLAND [10037]	NSW	In buffer area only
Defence - SPECTACLE ISLAND [10038]	NSW	In buffer area only
Defence - SYDNEY UNIVERSITY REGIMENT - DARLINGTON [11094]	NSW	In buffer area only
Defence - TRAINING SHIP CONDAMINE [11072]	NSW	In buffer area only
Defence - TRAINING SHIP CONDAMINE [11073]	NSW	In buffer area only
Defence - TRESCO [10044]	NSW	In buffer area only
Defence - VAUCLUSE TRAINING DEPOT [11137]	NSW	In buffer area only
Defence - VICTORIA BARRACKS - PADDINGTON [11121]	NSW	In buffer area only
Defence - VICTORIA BARRACKS - PADDINGTON [11120]	NSW	In buffer area only
Defence - VICTORIA BARRACKS - PADDINGTON [11119]	NSW	In buffer area only
Defence - WILLOUGHBY TRG DEP [11154]	NSW	In buffer area only
Defence - WILLOUGHBY TRG DEP [11155]	NSW	In buffer area only
Defence - WILLOUGHBY TRG DEP [11156]	NSW	In buffer area only
Defence - WILLOUGHBY TRG DEP [11158]	NSW	In buffer area only
Defence - WILLOUGHBY TRG DEP [11159]	NSW	In buffer area only
Defence - WILLOUGHBY TRG DEP [11152]	NSW	In buffer area only
Defence - WILLOUGHBY TRG DEP [11157]	NSW	In buffer area only
Defence - WILLOUGHBY TRG DEP [11150]	NSW	In buffer area only
Defence - WILLOUGHBY TRG DEP [11151]	NSW	In buffer area only
Defence - WILLOUGHBY TRG DEP [11139]	NSW	In buffer area only
Defence - WILLOUGHBY TRG DEP [11138]	NSW	In buffer area only
Defence - WILLOUGHBY TRG DEP [11145]	NSW	In buffer area only
Defence - WILLOUGHBY TRG DEP [11146]	NSW	In buffer area only
Defence - WILLOUGHBY TRG DEP [11147]	NSW	In buffer area only



Commonwealth Land Name	State	Buffer Status
Defence - WILLOUGHBY TRG DEP [11140]	NSW	In buffer area only
Defence - WILLOUGHBY TRG DEP [11144]	NSW	In buffer area only
Defence - WILLOUGHBY TRG DEP [11149]	NSW	In buffer area only
Defence - WILLOUGHBY TRG DEP [11141]	NSW	In buffer area only
Defence - WILLOUGHBY TRG DEP [11142]	NSW	In buffer area only
Defence - WILLOUGHBY TRG DEP [11143]	NSW	In buffer area only
Defence - WILLOUGHBY TRG DEP [11148]	NSW	In buffer area only
Defence - WILLOUGHBY TRG DEP [11153]	NSW	In buffer area only
Defence - WOOLLOOMOOLOO CARPARK [11177]	NSW	In buffer area only
Defence - WOOLLOOMOOLOO CARPARK [11174]	NSW	In buffer area only
Defence - WOOLLOOMOOLOO CARPARK [11176]	NSW	In buffer area only
Defence - WOOLLOOMOOLOO CARPARK [11175]	NSW	In buffer area only
Defence - ZETLAND NAVY SUPPLY CENTRE [11089]	NSW	In buffer area only
Defence - ZETLAND NAVY SUPPLY CENTRE [11088]	NSW	In buffer area only
Defence - ZETLAND NAVY SUPPLY CENTRE [11081]	NSW	In buffer area only
Defence - ZETLAND NAVY SUPPLY CENTRE [11080]	NSW	In buffer area only
Defence - ZETLAND NAVY SUPPLY CENTRE [11077]	NSW	In buffer area only
Defence - ZETLAND NAVY SUPPLY CENTRE [11085]	NSW	In buffer area only
Defence - ZETLAND NAVY SUPPLY CENTRE [11084]	NSW	In buffer area only
Defence - ZETLAND NAVY SUPPLY CENTRE [11083]	NSW	In buffer area only
Defence - ZETLAND NAVY SUPPLY CENTRE [11087]	NSW	In buffer area only
Defence - ZETLAND NAVY SUPPLY CENTRE [11086]	NSW	In buffer area only
Defence - ZETLAND NAVY SUPPLY CENTRE [11076]	NSW	In buffer area only
Defence - ZETLAND NAVY SUPPLY CENTRE [11075]	NSW	In buffer area only
Defence - ZETLAND NAVY SUPPLY CENTRE [11079]	NSW	In buffer area only
Defence - ZETLAND NAVY SUPPLY CENTRE [11078]	NSW	In buffer area only
Defence - ZETLAND NAVY SUPPLY CENTRE [11091]	NSW	In buffer area only



Commonwealth Land Name	State	Buffer Status
Defence - ZETLAND NAVY SUPPLY CENTRE [11090]	NSW	In buffer area only
Defence - ZETLAND NAVY SUPPLY CENTRE [11092]	NSW	In buffer area only
Defence - ZETLAND NAVY SUPPLY CENTRE [11082]	NSW	In buffer area only
Defence - Defence Housing Authority		
Commonwealth Land - Defence Housing Authority [14539]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16133]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15590]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15956]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15683]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14346]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14344]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14347]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14345]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14289]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15672]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15671]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14292]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14293]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14290]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14291]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13184]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13185]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13182]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16061]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13186]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13096]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14288]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Defence Housing Authority [16046]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13205]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16047]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13204]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16048]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16045]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13201]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13200]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16163]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13207]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13206]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13203]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13202]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13045]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13896]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13895]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14299]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13125]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14298]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13126]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14294]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14296]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14295]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16062]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13124]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16135]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13189]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Defence Housing Authority [13188]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13179]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13183]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13181]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13180]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13178]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13172]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16132]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16056]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16134]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13191]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13190]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16029]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13196]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16028]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13286]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13289]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15417]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13105]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14330]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15975]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15974]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15977]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15976]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15973]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15972]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15711]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Defence Housing Authority [16189]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14318]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13907]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14311]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14312]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14313]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14314]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14315]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13199]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14316]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13198]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14317]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13288]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14319]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13133]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13135]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15608]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14297]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14321]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14320]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13053]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13051]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13052]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13169]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13168]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13166]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13212]	NSW	In buffer area only



Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Defence Housing Authority [13167]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16356]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [16357]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13089]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13084]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13127]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15718]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [15441]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14303]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14300]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14305]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14302]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14309]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14308]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14307]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14306]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14304]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [14403]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13171]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13176]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13175]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13170]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13177]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13174]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13899]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13898]	NSW	In buffer area only
Commonwealth Land - Defence Housing Authority [13897]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Director of War Service Homes [13077]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13074]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13073]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13071]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13076]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13072]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13075]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13090]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13079]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13048]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [14367]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13085]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13086]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13087]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13088]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13082]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13083]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13080]	NSW	In buffer area only
Commonwealth Land - Director of War Service Homes [13081]	NSW	In buffer area only
Education, Science and Training - CSIRO		
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [13070]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [15954]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [13069]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [16535]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [16154]	NSW	In buffer area only



Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [16155]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [16156]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [16152]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [16153]	NSW	In buffer area only
Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [16536]	NSW	In buffer area only
Transport and Regional Services - Airservices Australia		
Commonwealth Land - Airservices Australia [13098]	NSW	In buffer area only
Commonwealth Land - Airservices Australia [14389]	NSW	In buffer area only
Treasury - Reserve Bank of Australia		
Commonwealth Land - Reserve Bank of Australia [13151]	NSW	In buffer area only
Commonwealth Land - Reserve Bank of Australia [13159]	NSW	In buffer area only
Commonwealth Land - Reserve Bank of Australia [13138]	NSW	In buffer area only
Commonwealth Land - Reserve Bank of Australia [13148]	NSW	In buffer area only
Commonwealth Land - Reserve Bank of Australia [13149]	NSW	In buffer area only
Commonwealth Land - Reserve Bank of Australia [16499]	NSW	In buffer area only
Commonwealth Land - Reserve Bank of Australia [13160]	NSW	In buffer area only
Commonwealth Land - Reserve Bank of Australia [13150]	NSW	In buffer area only
Unknown		
Commonwealth Land - [14364]	NSW	In buffer area only
Commonwealth Land - [16159]	NSW	In buffer area only
Commonwealth Land - [14365]	NSW	In buffer area only
Commonwealth Land - [15674]	NSW	In buffer area only
Commonwealth Land - [15673]	NSW	In buffer area only
Commonwealth Land - [15670]	NSW	In buffer area only
Commonwealth Land - [14396]	NSW	In buffer area only
Commonwealth Land - [14397]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [14394]	NSW	In buffer area only
Commonwealth Land - [14395]	NSW	In buffer area only
Commonwealth Land - [14392]	NSW	In buffer area only
Commonwealth Land - [14393]	NSW	In buffer area only
Commonwealth Land - [14390]	NSW	In buffer area only
Commonwealth Land - [16161]	NSW	In buffer area only
Commonwealth Land - [16160]	NSW	In buffer area only
Commonwealth Land - [16283]	NSW	In buffer area only
Commonwealth Land - [14398]	NSW	In buffer area only
Commonwealth Land - [14399]	NSW	In buffer area only
Commonwealth Land - [13078]	NSW	In buffer area only
Commonwealth Land - [15434]	NSW	In buffer area only
Commonwealth Land - [15435]	NSW	In buffer area only
Commonwealth Land - [13120]	NSW	In buffer area only
Commonwealth Land - [13123]	NSW	In buffer area only
Commonwealth Land - [13122]	NSW	In buffer area only
Commonwealth Land - [13139]	NSW	In feature area
Commonwealth Land - [14386]	NSW	In buffer area only
Commonwealth Land - [14387]	NSW	In buffer area only
Commonwealth Land - [15436]	NSW	In buffer area only
Commonwealth Land - [15503]	NSW	In buffer area only
Commonwealth Land - [15729]	NSW	In buffer area only
Commonwealth Land - [13173]	NSW	In buffer area only
Commonwealth Land - [16116]	NSW	In buffer area only
Commonwealth Land - [13218]	NSW	In buffer area only
Commonwealth Land - [13219]	NSW	In buffer area only
Commonwealth Land - [13217]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [15410]	NSW	In buffer area only
Commonwealth Land - [14334]	NSW	In buffer area only
Commonwealth Land - [13287]	NSW	In buffer area only
Commonwealth Land - [13101]	NSW	In buffer area only
Commonwealth Land - [14335]	NSW	In buffer area only
Commonwealth Land - [14336]	NSW	In buffer area only
Commonwealth Land - [14370]	NSW	In buffer area only
Commonwealth Land - [14372]	NSW	In buffer area only
Commonwealth Land - [14376]	NSW	In buffer area only
Commonwealth Land - [14373]	NSW	In buffer area only
Commonwealth Land - [14374]	NSW	In buffer area only
Commonwealth Land - [14310]	NSW	In buffer area only
Commonwealth Land - [15459]	NSW	In buffer area only
Commonwealth Land - [16562]	NSW	In buffer area only
Commonwealth Land - [13145]	NSW	In buffer area only
Commonwealth Land - [13144]	NSW	In buffer area only
Commonwealth Land - [13147]	NSW	In buffer area only
Commonwealth Land - [13140]	NSW	In buffer area only
Commonwealth Land - [13143]	NSW	In buffer area only
Commonwealth Land - [13146]	NSW	In buffer area only
Commonwealth Land - [13141]	NSW	In buffer area only
Commonwealth Land - [13142]	NSW	In buffer area only
Commonwealth Land - [15690]	NSW	In buffer area only
Commonwealth Land - [14400]	NSW	In buffer area only
Commonwealth Land - [14401]	NSW	In buffer area only
Commonwealth Land - [13163]	NSW	In buffer area only
Commonwealth Land - [13161]	NSW	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [13165]	NSW	In buffer area only
Commonwealth Land - [15689]	NSW	In buffer area only
Commonwealth Land - [15688]	NSW	In buffer area only
Commonwealth Land - [14353]	NSW	In buffer area only
Commonwealth Land - [14301]	NSW	In buffer area only
Commonwealth Land - [11160]	NSW	In buffer area only
Commonwealth Land - [13987]	NSW	In buffer area only

Commonwealth Heritage Places			[ Resource Information ]
Name	State	Status	Buffer Status
Historic			
<a href="#">Admiralty House and Lodge</a>	NSW	Listed place	In buffer area only
<a href="#">Admiralty House Garden and Fortifications</a>	NSW	Listed place	In buffer area only
<a href="#">Army Cottage with return verandah</a>	NSW	Listed place	In buffer area only
<a href="#">Barracks Block</a>	NSW	Listed place	In buffer area only
<a href="#">Barracks Group HMAS Watson</a>	NSW	Listed place	In buffer area only
<a href="#">Batteries A83 and C9A</a>	NSW	Listed place	In buffer area only
<a href="#">Battery B42</a>	NSW	Listed place	In buffer area only
<a href="#">Battery for Five Guns</a>	NSW	Listed place	In buffer area only
<a href="#">Biloela Group</a>	NSW	Listed place	In buffer area only
<a href="#">Bondi Beach Post Office</a>	NSW	Listed place	In buffer area only
<a href="#">Botany Post Office</a>	NSW	Listed place	In buffer area only
<a href="#">Buildings 31 and 32</a>	NSW	Listed place	In buffer area only
<a href="#">Buildings MQVB16 and VB56</a>	NSW	Listed place	In buffer area only
<a href="#">Buildings VB13, 15, 16 &amp; 17</a>	NSW	Listed place	In buffer area only
<a href="#">Buildings VB41, 45 &amp; 53</a>	NSW	Listed place	In buffer area only
<a href="#">Buildings VB60 and VB62</a>	NSW	Listed place	In buffer area only
<a href="#">Buildings VB69, 75 &amp; 76 including Garden</a>	NSW	Listed place	In buffer area only
<a href="#">Buildings VB83, 84, 85, 87 &amp; 89</a>	NSW	Listed place	In buffer area only

Name	State	Status	Buffer Status
<a href="#">Buildings VB90, 91, 91A &amp; 92</a>	NSW	Listed place	In buffer area only
<a href="#">Building VB1 and Parade Ground</a>	NSW	Listed place	In buffer area only
<a href="#">Building VB2 Guard House</a>	NSW	Listed place	In buffer area only
<a href="#">Chain and Anchor Store (former)</a>	NSW	Listed place	In buffer area only
<a href="#">Chowder Bay Barracks Group</a>	NSW	Listed place	In buffer area only
<a href="#">Cliff House</a>	NSW	Listed place	In buffer area only
<a href="#">Cockatoo Island Industrial Conservation Area</a>	NSW	Listed place	In buffer area only
<a href="#">Commonwealth Avenue Defence Housing</a>	NSW	Listed place	In buffer area only
<a href="#">Cottage at Macquarie Lighthouse</a>	NSW	Listed place	In buffer area only
<a href="#">Customs Marine Centre</a>	NSW	Listed place	In feature area
<a href="#">Defence site - Georges Heights and Middle Head</a>	NSW	Listed place	In buffer area only
<a href="#">Factory</a>	NSW	Listed place	In buffer area only
<a href="#">Fitzroy Dock</a>	NSW	Listed place	In buffer area only
<a href="#">Garden Island Precinct</a>	NSW	Listed place	In buffer area only
<a href="#">Gazebo</a>	NSW	Listed place	In buffer area only
<a href="#">General Post Office</a>	NSW	Listed place	In buffer area only
<a href="#">Golf Clubhouse (former)</a>	NSW	Listed place	In buffer area only
<a href="#">Headquarters 8th Brigade Precinct</a>	NSW	Listed place	In buffer area only
<a href="#">Headquarters Training Command Precinct</a>	NSW	Listed place	In buffer area only
<a href="#">HMAS Penguin</a>	NSW	Listed place	In buffer area only
<a href="#">Kirribilli House</a>	NSW	Listed place	In buffer area only
<a href="#">Kirribilli House Garden &amp; Grounds</a>	NSW	Listed place	In buffer area only
<a href="#">Macquarie Lighthouse</a>	NSW	Listed place	In buffer area only
<a href="#">Macquarie Lighthouse Group</a>	NSW	Listed place	In buffer area only
<a href="#">Macquarie Lighthouse Surrounding Wall</a>	NSW	Listed place	In buffer area only
<a href="#">Marine Biological Station (former)</a>	NSW	Listed place	In buffer area only



Name	State	Status	Buffer Status
<a href="#">Marrickville Post Office</a>	NSW	Listed place	In buffer area only
<a href="#">Mess Hall (former)</a>	NSW	Listed place	In buffer area only
<a href="#">Military Guard Room</a>	NSW	Listed place	In buffer area only
<a href="#">Military Road Framework - Defence Land</a>	NSW	Listed place	In buffer area only
<a href="#">Naval Store</a>	NSW	Listed place	In buffer area only
<a href="#">Navy Refuelling Depot and Caretakers House</a>	NSW	Listed place	In buffer area only
<a href="#">North Head Artillery Barracks</a>	NSW	Listed place	In buffer area only
<a href="#">North Sydney Post Office</a>	NSW	Listed place	In buffer area only
<a href="#">Office Building</a>	NSW	Listed place	In buffer area only
<a href="#">Officers Mess, HQ Training Command</a>	NSW	Listed place	In buffer area only
<a href="#">Paddington Post Office</a>	NSW	Listed place	In buffer area only
<a href="#">Power House / Pump House</a>	NSW	Listed place	In buffer area only
<a href="#">Prison Barracks Precinct</a>	NSW	Listed place	In buffer area only
<a href="#">Pyrmont Post Office</a>	NSW	Listed place	In buffer area only
<a href="#">Reserve Bank</a>	NSW	Listed place	In buffer area only
<a href="#">Residences Group</a>	NSW	Listed place	In buffer area only
<a href="#">Rigging Shed and Chapel</a>	NSW	Listed place	In buffer area only
<a href="#">School of Musketry and Officers Mess, Randwick Army Barracks</a>	NSW	Listed place	In buffer area only
<a href="#">Shark Point Battery</a>	NSW	Listed place	In buffer area only
<a href="#">Snapper Island</a>	NSW	Listed place	In buffer area only
<a href="#">Spectacle Island Explosives Complex</a>	NSW	Listed place	In buffer area only
<a href="#">Sutherland Dock</a>	NSW	Listed place	In buffer area only
<a href="#">Sydney Airport Air Traffic Control Tower</a>	NSW	Listed place	In buffer area only
<a href="#">Sydney Customs House (former)</a>	NSW	Listed place	In buffer area only
<a href="#">Ten Terminal Regiment Headquarters and AusAid Training Centre</a>	NSW	Listed place	In buffer area only
<a href="#">Thirty Terminal Squadron Precinct</a>	NSW	Listed place	In buffer area only



Name	State	Status	Buffer Status
<a href="#">Underground Grain Silos</a>	NSW	Listed place	In buffer area only
<a href="#">Victoria Barracks Perimeter Wall and Gates</a>	NSW	Listed place	In buffer area only
<a href="#">Victoria Barracks Precinct</a>	NSW	Listed place	In buffer area only
<a href="#">Victoria Barracks Squash Courts</a>	NSW	Listed place	In buffer area only
<a href="#">Woolwich Dock</a>	NSW	Listed place	In buffer area only

Listed Marine Species			[ <a href="#">Resource Information</a> ]
Scientific Name	Threatened Category	Presence Text	Buffer Status
Bird			
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
<a href="#">Anous stolidus</a> Common Noddy [825]		Species or species habitat likely to occur within area	In feature area
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area	In feature area
<a href="#">Ardenna carneipes as Puffinus carneipes</a> Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Ardenna grisea as Puffinus griseus</a> Sooty Shearwater [82651]		Species or species habitat likely to occur within area	In feature area
<a href="#">Arenaria interpres</a> Ruddy Turnstone [872]		Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Bubulcus ibis as Ardea ibis</a> Cattle Egret [66521]		Species or species habitat may occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]	Endangered	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Calidris alba</a> Sanderling [875]		Species or species habitat known to occur within area	In buffer area only
<a href="#">Calidris canutus</a> Red Knot, Knot [855]		Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]		Species or species habitat known to occur within area overfly marine area	In buffer area only
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Calidris ruficollis</a> Red-necked Stint [860]	Critically Endangered	Foraging, feeding or related behaviour known to occur within area overfly marine area	In feature area
<a href="#">Calidris subminuta</a> Long-toed Stint [861]		Species or species habitat known to occur within area overfly marine area	In buffer area only
<a href="#">Calidris tenuirostris</a> Great Knot [862]		Foraging, feeding or related behaviour known to occur within area overfly marine area	In feature area
<a href="#">Calonectris leucomelas</a> Streaked Shearwater [1077]		Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Charadrius bicinctus</a> Double-banded Plover [895]		Foraging, feeding or related behaviour known to occur within area overfly marine area	In feature area
<a href="#">Charadrius leschenaultii</a> Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Charadrius mongolus</a> Lesser Sand Plover, Mongolian Plover [879]	Endangered	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Charadrius ruficapillus</a> Red-capped Plover [881]		Foraging, feeding or related behaviour known to occur within area overfly marine area	In feature area
<a href="#">Charadrius veredus</a> Oriental Plover, Oriental Dotterel [882]		Species or species habitat known to occur within area overfly marine area	In buffer area only
<a href="#">Diomedea antipodensis</a> Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Diomedea antipodensis gibsoni as Diomedea gibsoni</a> Gibson's Albatross [82270]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Diomedea epomophora</a> Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Diomedea exulans</a> Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Diomedea sanfordi</a> Northern Royal Albatross [64456]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Fregata ariel</a> Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat known to occur within area	In feature area
<a href="#">Fregata minor</a> Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat may occur within area	In feature area
<a href="#">Gallinago hardwickii</a> Latham's Snipe, Japanese Snipe [863]		Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Gallinago megala</a> Swinhoe's Snipe [864]		Foraging, feeding or related behaviour likely to occur within area overfly marine area	In buffer area only
<a href="#">Gallinago stenura</a> Pin-tailed Snipe [841]		Foraging, feeding or related behaviour likely to occur within area overfly marine area	In buffer area only
<a href="#">Haliaeetus leucogaster</a> White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area	In feature area
<a href="#">Himantopus himantopus</a> Pied Stilt, Black-winged Stilt [870]		Foraging, feeding or related behaviour known to occur within area overfly marine area	In feature area
<a href="#">Hirundapus caudacutus</a> White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Lathamus discolor</a> Swift Parrot [744]	Critically Endangered	Species or species habitat known to occur within area overfly marine area	In buffer area only
<a href="#">Limicola falcinellus</a> Broad-billed Sandpiper [842]		Species or species habitat known to occur within area overfly marine area	In buffer area only
<a href="#">Limosa lapponica</a> Bar-tailed Godwit [844]		Species or species habitat known to occur within area	In feature area
<a href="#">Limosa limosa</a> Black-tailed Godwit [845]		Foraging, feeding or related behaviour known to occur within area overfly marine area	In feature area
<a href="#">Macronectes giganteus</a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Macronectes halli</a> Northern Giant Petrel [1061]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Merops ornatus</a> Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area	In feature area
<a href="#">Monarcha melanopsis</a> Black-faced Monarch [609]		Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		Species or species habitat known to occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Myiagra cyanoleuca</a> Satin Flycatcher [612]		Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Neophema chrysogaster</a> Orange-bellied Parrot [747]	Critically Endangered	Species or species habitat may occur within area overfly marine area	In buffer area only
<a href="#">Neophema chrysostoma</a> Blue-winged Parrot [726]		Species or species habitat likely to occur within area overfly marine area	In feature area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Numenius minutus</a> Little Curlew, Little Whimbrel [848]		Foraging, feeding or related behaviour likely to occur within area overfly marine area	In buffer area only
<a href="#">Numenius phaeopus</a> Whimbrel [849]		Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Pachyptila turtur</a> Fairy Prion [1066]		Species or species habitat known to occur within area	In feature area
<a href="#">Pandion haliaetus</a> Osprey [952]		Species or species habitat known to occur within area	In buffer area only
<a href="#">Phaethon lepturus</a> White-tailed Tropicbird [1014]		Species or species habitat known to occur within area	In feature area
<a href="#">Philomachus pugnax</a> Ruff (Reeve) [850]		Foraging, feeding or related behaviour known to occur within area overfly marine area	In feature area



Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Phoebetria fusca</a> Sooty Albatross [1075]	Vulnerable	Species or species habitat may occur within area	In buffer area only
<a href="#">Pluvialis fulva</a> Pacific Golden Plover [25545]		Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Pluvialis squatarola</a> Grey Plover [865]		Species or species habitat known to occur within area overfly marine area	In buffer area only
<a href="#">Recurvirostra novaehollandiae</a> Red-necked Avocet [871]		Foraging, feeding or related behaviour known to occur within area overfly marine area	In feature area
<a href="#">Rhipidura rufifrons</a> Rufous Fantail [592]		Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Rostratula australis as Rostratula benghalensis (sensu lato)</a> Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area overfly marine area	In feature area
<a href="#">Stercorarius skua as Catharacta skua</a> Great Skua [823]		Species or species habitat may occur within area	In buffer area only
<a href="#">Sternula albifrons as Sterna albifrons</a> Little Tern [82849]		Breeding likely to occur within area	In feature area
<a href="#">Symposiachrus trivirgatus as Monarcha trivirgatus</a> Spectacled Monarch [83946]		Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Thalassarche bulleri</a> Buller's Albatross, Pacific Albatross [64460]	Vulnerable	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Thalassarche bulleri platei as Thalassarche sp. nov.</a> Northern Buller's Albatross, Pacific Albatross [82273]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Thalassarche carteri</a> Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Thalassarche cauta</a> Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Thalassarche eremita</a> Chatham Albatross [64457]	Endangered	Foraging, feeding or related behaviour may occur within area	In feature area
<a href="#">Thalassarche impavida</a> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Thalassarche melanophris</a> Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Thalassarche salvini</a> Salvin's Albatross [64463]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Thalassarche steadi</a> White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Tringa brevipes as Heteroscelus brevipes</a> Grey-tailed Tattler [851]		Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Tringa incana as Heteroscelus incanus</a> Wandering Tattler [831]		Species or species habitat known to occur within area	In buffer area only

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

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

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Trachyrhamphus bicoarctatus</a> Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area	In feature area
<a href="#">Urocampus carinirostris</a> Hairy Pipefish [66282]		Species or species habitat may occur within area	In feature area
<a href="#">Vanacampus margaritifer</a> Mother-of-pearl Pipefish [66283]		Species or species habitat may occur within area	In feature area

Mammal			
<a href="#">Arctocephalus forsteri</a> Long-nosed Fur-seal, New Zealand Fur-seal [20]		Species or species habitat may occur within area	In feature area
<a href="#">Arctocephalus pusillus</a> Australian Fur-seal, Australo-African Fur-seal [21]		Species or species habitat may occur within area	In feature area
<a href="#">Dugong dugon</a> Dugong [28]		Species or species habitat may occur within area	In buffer area only

Reptile			
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Pelamis platurus</a> Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area	In feature area

Whales and Other Cetaceans			[ Resource Information ]
Current Scientific Name	Status	Type of Presence	Buffer Status
Mammal			
<a href="#">Balaenoptera acutorostrata</a> Minke Whale [33]		Species or species habitat may occur within area	In buffer area only
<a href="#">Balaenoptera borealis</a> Sei Whale [34]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
<a href="#">Balaenoptera edeni</a> Bryde's Whale [35]		Species or species habitat may occur within area	In feature area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Balaenoptera physalus</a> Fin Whale [37]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
<a href="#">Caperea marginata</a> Pygmy Right Whale [39]		Foraging, feeding or related behaviour may occur within area	In feature area
<a href="#">Delphinus delphis</a> Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area	In feature area
<a href="#">Eubalaena australis</a> Southern Right Whale [40]	Endangered	Species or species habitat known to occur within area	In feature area



Current Scientific Name	Status	Type of Presence	Buffer Status
<a href="#">Grampus griseus</a> Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area	In buffer area only
<a href="#">Lagenorhynchus obscurus</a> Dusky Dolphin [43]		Species or species habitat may occur within area	In feature area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]		Species or species habitat known to occur within area	In buffer area only
<a href="#">Orcinus orca</a> Killer Whale, Orca [46]		Species or species habitat likely to occur within area	In buffer area only
<a href="#">Stenella attenuata</a> Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area	In feature area
<a href="#">Tursiops aduncus</a> Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area	In feature area
<a href="#">Tursiops truncatus s. str.</a> Bottlenose Dolphin [68417]		Species or species habitat may occur within area	In feature area

### Extra Information

State and Territory Reserves			[ <a href="#">Resource Information</a> ]
Protected Area Name	Reserve Type	State	Buffer Status
Bronte-Coogee	Aquatic Reserve	NSW	In buffer area only
Cabbage Tree Bay	Aquatic Reserve	NSW	In buffer area only
Garigal	National Park	NSW	In buffer area only
Lane Cove	National Park	NSW	In buffer area only
North Head	Private Nature Reserve	NSW	In buffer area only
North Sydney Harbour	Aquatic Reserve	NSW	In buffer area only
Parramatta River	Regional Park	NSW	In buffer area only
Sydney Harbour	National Park	NSW	In buffer area only

Protected Area Name	Reserve Type	State	Buffer Status		
Wallumatta	Nature Reserve	NSW	In buffer area only		
Wolli Creek	Regional Park	NSW	In buffer area only		
Nationally Important Wetlands					
Wetland Name		State	Buffer Status		
<a href="#">Botany Wetlands</a>		NSW	In buffer area only		
EPBC Act Referrals					
Title of referral		Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action					
<a href="#">Australian Institute of Police Management Facilities Upgrade</a>		2006/2746	Controlled Action	Post-Approval	In buffer area only
<a href="#">Concept Plan Proposal for residential and commercial development of UTS Kuring-</a>		2008/4083	Controlled Action	Post-Approval	In buffer area only
<a href="#">Construction and operation of the Westconnex New M5, Sydney, NSW</a>		2015/7520	Controlled Action	Post-Approval	In buffer area only
<a href="#">Cooks Cove Development Project</a>		2006/2685	Controlled Action	Post-Approval	In buffer area only
<a href="#">Development of a Residential Care Facility, Middle Head, NSW</a>		2014/7194	Controlled Action	Post-Approval	In buffer area only
<a href="#">Garden Island Hammerhead Crane Proposed Removal, NSW</a>		2012/6430	Controlled Action	Post-Approval	In buffer area only
<a href="#">Moriah War Memorial College expansion</a>		2002/575	Controlled Action	Post-Approval	In buffer area only
<a href="#">Pilot Offshore Artificial Reefs</a>		2008/4176	Controlled Action	Post-Approval	In buffer area only
<a href="#">Relocation of Grey-Headed Flying-Fox Colony</a>		2008/4646	Controlled Action	Post-Approval	In buffer area only
<a href="#">Sand Reclamation to Towra Beach</a>		2003/1085	Controlled Action	Post-Approval	In buffer area only
<a href="#">Southern section of the Bonnie Doon Golf Course, Pagewood, NSW</a>		2015/7479	Controlled Action	Completed	In buffer area only
<a href="#">Sydney Opera House Building Renewal Program, NSW</a>		2016/7825	Controlled Action	Post-Approval	In buffer area only
<a href="#">Sydney Opera House Building Renewal Program - Concert Hall and associated works</a>		2017/7955	Controlled Action	Post-Approval	In buffer area only
<a href="#">Upgrade of Floodlighting for Night Sports Training</a>		2009/4798	Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action				
Not controlled action				
<a href="#">ABC Gore Hill, Lanceley Place Site Redevelopment</a>	2002/908	Not Controlled Action	Completed	In buffer area only
<a href="#">ABC Proposed Sale of Property Commonwealth Land</a>	2020/8855	Not Controlled Action	Completed	In buffer area only
<a href="#">Admiralty House, Kirribilli, foreshore works, NSW</a>	2014/7357	Not Controlled Action	Completed	In buffer area only
<a href="#">APX-East sub-sea telecommunications &amp; data cable system</a>	2014/7139	Not Controlled Action	Completed	In buffer area only
<a href="#">Artarmon Helipad Relocation</a>	2001/186	Not Controlled Action	Completed	In buffer area only
<a href="#">Australia-USA Southern Cross NEXT fibre optic cable installation</a>	2019/8405	Not Controlled Action	Completed	In buffer area only
<a href="#">Botany Rail Duplication</a>	2019/8566	Not Controlled Action	Completed	In buffer area only
<a href="#">BP/Mobil Pipeline to Kingsford Smith Airport</a>	2000/104	Not Controlled Action	Completed	In buffer area only
<a href="#">Change of use of existing room in research laboratory</a>	2002/665	Not Controlled Action	Completed	In buffer area only
<a href="#">Conservation and Adaptive Use of Quarantine Station</a>	2002/556	Not Controlled Action	Completed	In buffer area only
<a href="#">Construct and operate an aerial adventure park</a>	2012/6239	Not Controlled Action	Completed	In buffer area only
<a href="#">Construction and Operation of the Parramatta Rail Link - between Parramatta and</a>	2002/673	Not Controlled Action	Completed	In buffer area only
<a href="#">Construction of a high-capacity fibre optic submarine cable</a>	2006/2914	Not Controlled Action	Completed	In buffer area only
<a href="#">construction of four dwellings and associated facilities</a>	2005/2396	Not Controlled Action	Completed	In buffer area only
<a href="#">Decommissioning of Army Depot, Haberfield</a>	2001/217	Not Controlled Action	Completed	In buffer area only
<a href="#">Decommissioning of NMC and Camperdown Facility</a>	2010/5645	Not Controlled Action	Completed	In buffer area only
<a href="#">Demolition and Removal of Two Naval Cottages</a>	2008/4373	Not Controlled Action	Completed	In buffer area only
<a href="#">Demolition of Ablutions Block, Snapper Island, NSW</a>	2018/8303	Not Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
<a href="#">Demolition of the existing club house and construction of a new club house</a>	2009/4932	Not Controlled Action	Completed	In buffer area only
<a href="#">Environmental Works</a>	2001/396	Not Controlled Action	Completed	In buffer area only
<a href="#">Extension of Hale Street to Foreshore Road and Associated Works</a>	2008/4035	Not Controlled Action	Completed	In buffer area only
<a href="#">Fitout works, 4th Floor, Sydney Customs House, 31 Alfred Street</a>	2004/1449	Not Controlled Action	Completed	In buffer area only
<a href="#">Fuel Reduction Proposal Redfield Road, East Killara</a>	2003/1238	Not Controlled Action	Completed	In buffer area only
<a href="#">Garden Island ADI Warehouse</a>	2000/69	Not Controlled Action	Completed	In buffer area only
<a href="#">Georges River Program 2</a>	2003/999	Not Controlled Action	Completed	In buffer area only
<a href="#">Gore Hill Conservation Management Plan</a>	2000/109	Not Controlled Action	Completed	In buffer area only
<a href="#">Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia</a>	2015/7522	Not Controlled Action	Completed	In feature area
<a href="#">INDIGO Central Submarine Telecommunications Cable</a>	2017/8127	Not Controlled Action	Completed	In buffer area only
<a href="#">Industrial Subdivision</a>	2004/1859	Not Controlled Action	Completed	In buffer area only
<a href="#">Installation of Sydney-Guam Submarine Cable</a>	2007/3848	Not Controlled Action	Completed	In buffer area only
<a href="#">Internal Modifications to Reserve Bank of Australia</a>	2008/4431	Not Controlled Action	Completed	In buffer area only
<a href="#">M2 Motorway Upgrade</a>	2010/5329	Not Controlled Action	Completed	In buffer area only
<a href="#">Noxious weed removal and controlled burn</a>	2003/1272	Not Controlled Action	Completed	In buffer area only
<a href="#">Rabbit Control Anzac Rifle Range</a>	2005/1940	Not Controlled Action	Completed	In buffer area only
<a href="#">RBA HOWP 65 Martin Place, NSW</a>	2020/8870	Not Controlled Action	Completed	In buffer area only
<a href="#">Redevelopment 60 Martin Place, Sydney, NSW</a>	2015/7490	Not Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
<a href="#">Rehabilitation works of the Coogee Sewer Diversion Submain - Maxwell Avenue, Mar</a>	2004/1683	Not Controlled Action	Completed	In feature area
<a href="#">Remediation of contaminated aesbestos site</a>	2002/608	Not Controlled Action	Completed	In buffer area only
<a href="#">Remediation of Contaminated Buildings</a>	2005/1983	Not Controlled Action	Completed	In buffer area only
<a href="#">Remediation of Contaminated Soil</a>	2005/1985	Not Controlled Action	Completed	In buffer area only
<a href="#">Remediation of contaminated soil around the Macquarie Lighthouse</a>	2004/1836	Not Controlled Action	Completed	In buffer area only
<a href="#">Residential subdivision and stormwater management facilities</a>	2003/1141	Not Controlled Action	Completed	In buffer area only
<a href="#">Sale of New South Head Road, Edgecliff</a>	2001/302	Not Controlled Action	Completed	In buffer area only
<a href="#">sewage treatmemt plant process and reliability renewals project</a>	2005/2186	Not Controlled Action	Completed	In feature area
<a href="#">Shipment of Spent Nuclear Fuel to USA</a>	2007/3672	Not Controlled Action	Completed	In buffer area only
<a href="#">subdivision and development on the Rhodes Peninsula for residential and commerci</a>	2003/1249	Not Controlled Action	Completed	In buffer area only
<a href="#">Subdivision and sale of Commonwealth land in Pymble to Ku-ring-gai City Council</a>	2004/1368	Not Controlled Action	Completed	In buffer area only
<a href="#">Subdivision of Precincts 3 and 12, St Patricks Estate</a>	2004/1925	Not Controlled Action	Completed	In buffer area only
<a href="#">Supply of a gigabit ethernet connection with associated trenching, boring and ha</a>	2007/3637	Not Controlled Action	Completed	In buffer area only
<a href="#">Sydney Desalination Plant</a>	2005/2331	Not Controlled Action	Completed	In buffer area only
<a href="#">Sydney Metro Network Stage 2</a>	2010/5307	Not Controlled Action	Completed	In buffer area only
<a href="#">Sydney Primary Loop Gas Pipeline</a>	2006/2622	Not Controlled Action	Completed	In buffer area only
<a href="#">Torpedo Factory Renewal Project</a>	2020/8847	Not Controlled Action	Completed	In feature area
<a href="#">Undertake a controlled burn of the Eastern Suburbs Banksia Scrub at Byrne Cresce</a>	2004/1728	Not Controlled Action	Completed	In buffer area only



Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
<a href="#">Undertaking of fire protection measures for the bushland regeneration of the Ranwick Environmental P</a>	2003/959	Not Controlled Action	Completed	In buffer area only
Not controlled action (particular manner)				
<a href="#">Construction works on SE corner of the grounds of Admiralty House</a>	2012/6278	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
<a href="#">Hawaiki Fibre-Optic Submarine Cable installation</a>	2016/7765	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
<a href="#">Hyde Park Barracks Proposed New Passenger Lift</a>	2017/7933	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
<a href="#">INDIGO Marine Cable Route Survey (INDIGO)</a>	2017/7996	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
<a href="#">International fibre optic submarine cable installation, between Sydney and Honiara, Solomon Islands</a>	2015/7502	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
<a href="#">Kingsford Defence Land Subdivision and Redevelopment</a>	2002/852	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
<a href="#">Moriah Primary School, Centennial Park, Sydney</a>	2004/1676	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
<a href="#">Southern Cross Australia-New Zealand-America marine acoustic survey of the seabed</a>	2017/7863	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
<a href="#">Walking Track connecting Middle Head Rd &amp; Balmoral Park</a>	2002/572	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Referral decision				
<a href="#">Alterations and Additions</a>	2006/3081	Referral Decision	Completed	In buffer area only
<a href="#">Breeding program for Grey Nurse Sharks</a>	2007/3245	Referral Decision	Completed	In feature area



Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Referral decision				
<a href="#">Demolition and Removal of Five Naval Cottages</a>	2008/4322	Referral Decision	Completed	In buffer area only
<a href="#">Demolition of Naval Cottages &amp; Revegetation as Part of SHFT's Headland Park</a>	2005/2128	Referral Decision	Completed	In buffer area only
<a href="#">Relocation of Grey-Headed Flying-Fox Colony</a>	2008/4568	Referral Decision	Completed	In buffer area only
<a href="#">Renovation and Landscape Rehabilitation of the Championship Course at Royal Sydney Golf Club</a>	2022/9167	Referral Decision	Referral Publication	In buffer area only
<a href="#">Summer Hill Flour Mills Residential &amp; Commercial development</a>	2011/5859	Referral Decision	Completed	In buffer area only

Biologically Important Areas				
Scientific Name		Behaviour	Presence	Buffer Status
Dolphins				
<a href="#">Tursiops aduncus</a>				
Indo-Pacific/Spotted Bottlenose Dolphin [68418]		Breeding	Likely to occur	In feature area
Sharks				
<a href="#">Carcharias taurus</a>				
Grey Nurse Shark [64469]		Foraging	Known to occur	In feature area
Whales				
<a href="#">Megaptera novaeangliae</a>				
Humpback Whale [38]		Foraging	Known to occur	In buffer area only

Bioregional Assessments			
SubRegion	BioRegion	Website	Buffer Status
Sydney	Sydney Basin	<a href="#">BA website</a>	In feature area

# Caveat

## 1 PURPOSE

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

The report contains the mapped locations of:

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

## 2 DISCLAIMER

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

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

## 3 DATA SOURCES

Threatened ecological communities

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

Threatened, migratory and marine species

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

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

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

## 4 LIMITATIONS

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

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

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

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

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

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

# Acknowledgements

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

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

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

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

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Common name	Scientific name	NSW Status (BC Act)	Commonwealth Status (EPBC Act)	Species information	Most recent record (number of records)	Likelihood of occurrence	Justification
Antipodean Albatross	<i>Diomedea antipodensis</i>	Vulnerable	Vulnerable	The distribution of the Antipodean Albatross ranges across the southern Pacific Ocean, from eastern Australia to Chile. Breeds biennially in colonies on ridges, slopes and plateaus of isolated subantarctic islands usually in vegetation such as grass tussocks. Small numbers regularly occur off the NSW south coast from Green Cape to Newcastle during winter where they feed on cuttlefish, although a small proportion of the total foraging area of the Antipodean Albatross, potential forage in NSW waters is considered significant for the species.	PMST	Low	The species has not been recorded previously within 10 kilometres of the study area
Arctic Jaeger	<i>Stercorarius parasiticus</i>	N/A	Migratory	A marine pelagic species which can be found inhabiting estuaries, bays and harbours from Oct through to May.	2010 (7)	Low	The species has specific habitat requirements that are not present in the study area.
Australasian Bittern	<i>Botaurus poiciloptilus</i>	Endangered	Endangered	The Australasian Bittern is widespread but uncommon across south-eastern Australia. In NSW, they can be found over most of the state except for the far north-west. The species favours permanent freshwater wetlands with tall, dense vegetation, particularly bulrushes ( <i>Typha</i> spp.) and spikerushes ( <i>Eleocharis</i> spp.).	2014 (5)  PMST	Low	The species has specific habitat requirements that are not present in the study area.

Australian Painted Snipe	<i>Rostratula australis</i>	Endangered	Endangered	The Australian Painted Snipe is restricted to Australia. Most records are from the south-east, particularly surrounding the Murray Darling Basin. Scattered records exist across northern Australia and historical records exist around Perth in Western Australia. In NSW, many records are from the Murray-Darling Basin, including the Paroo wetlands, Lake Cowal, Macquarie Marshes, Fivebough Swamp and swamps surrounding Balldale and Wanganella. Other important locations include wetlands on the Hawkesbury River, and the Clarence and Lower Hunter Valleys. The species prefers fringes of swamps, dams and nearby marshes where there is a cover of grasses, lignum, low scrub or open timber.	PMST	Low	The species has not been recorded previously within 10 kilometres of the study area
Barking Owl	<i>Ninox connivens</i>	Vulnerable		The Barking Owl is found throughout Australia except for the central arid regions. The species has greatly declined in southern Australia and now occurs in a wide but sparse distribution in NSW. Core populations exist on the western slopes and plains and some north-east coastal and escarpment forests. The species inhabits woodland and open forest, including fragmented remnants and partly cleared farmland. It is flexible in its habitat use and hunting can extend in to closed forest as well as more open areas. Occasionally, the species can breed successfully along timbered watercourses in heavily cleared habitats, such as in western NSW, due to the higher density of prey on these fertile riparian soils.	2019 (12)	Low	The species has specific habitat requirements that are not present in the study area.
Bar-tailed Godwit	<i>Limosa lapponica</i>		Migratory	Coastal species, usually inhabiting intertidal sandflats, banks, mudflats, estuaries, inlets, harbours, coastal lagoons and bays. It is found often around beds of seagrass and, sometimes, in nearby saltmarsh. It has been sighted in coastal sewage farms and saltworks, saltlakes and brackish wetlands near coasts, sandy ocean beaches, rock platforms, and coral reef-flats. It is rarely found on inland wetlands or in areas of short grass, such as farmland, paddocks and airstrips, although it is commonly recorded in paddocks at some locations overseas (Marchant & Higgins 1993).	2020 (636)  PMST	Low	The species has specific habitat requirements that are not present in the study area.
Beach Stone-curlew	<i>Esacus magirostris</i>	Critically endangered		Within NSW the Beach Stone-curlew occurs regularly to the Manning River in north-eastern NSW. Found exclusively along the coast on a range of beaches, islands, reefs and in estuaries and may be seen at the edges of or near mangroves. Foraging occurs in the intertidal zone of beaches and estuaries. Breeding occurs above the littoral zone.	2013 (1)	Low	The species has specific habitat requirements that are not present in the study area.



Black Bittern	<i>Ixobrychus flavicollis</i>	Vulnerable		The Black Bittern has a wide distribution from southern NSW to Cape York and along the north coast to the Kimberley region. The species also occurs in the south-west of Western Australia. In NSW, records of the species are scattered along the east coast, with individuals rarely being recorded south of Sydney or inland. The species inhabits both terrestrial and estuarine wetlands, generally in areas of permanent water and dense vegetation. Where permanent water is present, the species may occur in flooded grassland, forest, woodland, rainforest and mangroves.	2019 (17)	Low	The species has specific habitat requirements that are not present in the study area.
Black-browed Albatross	<i>Thalassarche melanophris</i>	Vulnerable	Vulnerable	The Black-browed Albatross has a circumpolar range over the southern oceans, and are seen off the southern Australian coast mainly during winter. This species migrates to waters off the continental shelf from approximately May to November and is regularly recorded off the NSW coast during this period. The species has also been recorded in Botany Bay National Park. Inhabits antarctic, subantarctic, subtropical marine and coastal waters over upwellings and boundaries of currents. Can tolerate water temperatures between 0°C and 24°C.	2014 (11)	Low	The species has specific habitat requirements that are not present in the study area.
					PMST		
Black-faced Monarch	<i>Monarcha melanopsis</i>		Migratory	A migratory species found during the breeding season in damp gullies in temperate rainforests. Disperses after breeding into more open woodland.	PMST	Low	The species has not been recorded previously within 10 kilometres of the study area
Black-necked Stork	<i>Ephippiorhynchus asiaticus</i>	Endangered		The Black-necked Stork, species <i>Ephippiorhynchus asiaticus</i> , comprises two subspecies, with <i>E. a. australis</i> occurring in Australia and New Guinea. In Australia, the species is widespread in coastal and subcoastal northern and eastern Australia, as far south as central NSW (although vagrants may occur further south or inland). In NSW, the species becomes increasingly uncommon south of the Clarence Valley, and rarely occurs south of Sydney. The species inhabits floodplain wetlands, including swamps, billabongs, watercourses and dams, of the major coastal rivers. Secondary habitat includes minor floodplains, coastal sandplain wetlands and estuaries.	2004 (1)	Low	The species has specific habitat requirements that are not present in the study area.

Black-tailed Godwit	<i>Limosa limosa</i>	Vulnerable	Migratory	<p>The Black-tailed Godwit is a migratory wader that breeds in Mongolia and Eastern Siberia and flies to Australia for the southern summer; arriving in August and leaving in March. In NSW, it is most frequently recorded at Kooragang Island (Hunter River estuary), with occasional records elsewhere along the coast and inland. Records in western NSW indicate that a regular inland passage is utilised by the species; occurring around any of the large lakes in western areas during the summer, when muddy shores are exposed. The species has also been recorded within the Murray-Darling Basin, on the western slopes of the Northern Tablelands and in the far north-western corner of the state. The Black-tailed Godwit is predominately a coastal species that is usually found in sheltered bays, estuaries and lagoons with large intertidal mudflats and/or sandflats. Further inland, the species can be found on mudflats and in water less than 10 cm deep around muddy lakes and swamps.</p>	2009 (1)	Low	The species has specific habitat requirements that are not present in the study area.
					PMST		
Broad-headed Snake	<i>Hoplocephalus bungaroides</i>	Endangered	Vulnerable	<p>Largely confined to the Hawkesbury, Narrabeen and Shoalhaven sandstone groups within the coast and ranges in an area within approximately 250 kilometres of Sydney. The Broad-headed snake shelters in crevices or hollows of large trees.</p>	PMST	Low	The species has not been recorded previously within 10 kilometres of the study area, in addition, suitable habitat will not be impacted.
Brown Treecreeper (eastern subspecies)	<i>Climacteris picumnus victoriae</i>	Vulnerable		<p>The Brown Treecreeper is endemic to eastern Australia and occurs in eucalypt forest and woodlands of inland plains and slopes of the Great Diving Range. It is less common on coastal plains and ranges. The eastern subspecies lives in eastern NSW in eucalypt woodlands through central NSW and in coastal areas with drier, open woodlands such as the Snowy River Valley, Cumberland Plains, Hunter Valley and parts of the Richmond and Clarence Valleys. The species mainly inhabits woodlands dominated by stringybarks or other rough-barked eucalypts, usually with an open grassy understorey, sometimes with one or more shrub species. They can also be found in mallee and River Red Gum (<i>Eucalyptus camaldulensis</i>) Forest bordering wetlands with an open understorey of acacias, saltbush, lignum, cumbungi and grasses. Fallen timber is an important habitat component for foraging.</p>	2018 (2)	Low	The species has specific habitat requirements that are not present in the study area.

Buller's Albatross	<i>Thalassarche bulleri</i>		Vulnerable	As Buller's Albatross is a seasonal visitor and does not breed in Australia, it is difficult to estimate extent of occurrence or area of occupancy. Buller's Albatross are marine and pelagic, inhabiting subtropical and subantarctic waters of the southern Pacific Ocean (Marchant & Higgins 1990).	2009 (1)  PMST	Low	The species has specific habitat requirements that are not present in the study area.
Bush Stone-curlew	<i>Burhinus grallarius</i>	Endangered		The Bush Stone-curlew is found throughout Australia except for inland areas, the central southern coast, far south-east corner and Tasmania. In northern Australia the species is common, but in the south-east, it is either rare or extinct throughout its former range. The species inhabits open forests and woodlands with a sparse grassy groundlayer and fallen timber.	2019 (10)	Low	The species has specific habitat requirements that are not present in the study area.
Campbell Albatross	<i>Thalassarche impavida</i>		Vulnerable, Migratory	This species nests only at Campbell Island and the adjacent Isle de Jeanette Marie south of New Zealand, with a total population estimated at 24,600 pairs. It ranges widely in Australasian seas. In NSW waters it is probably frequently overlooked due to the difficulties of separating it from the Black-browed Albatross. However, it appears to be a regular visitor occurring in most months of the year with peaks in winter during the non-breeding season. Occurs in both inshore and offshore waters, including the continental shelf break and pelagic waters. Forages on fish, squid, crustacea, carrion and gelatinous organisms.	PMST	Low	The species has not been recorded previously within 10 kilometres of the study area
Caspian Tern	<i>Hydroprogne caspia</i>		Migratory	The Caspian Tern is mostly found in sheltered coastal embayments (harbours, lagoons, inlets, bays, estuaries and river deltas) and those with sandy or muddy margins are preferred. They also occur on near-coastal or inland terrestrial wetlands that are either fresh or saline, especially lakes (including ephemeral lakes), waterholes, reservoirs, rivers and creeks. They also use artificial wetlands, including reservoirs, sewage ponds and saltworks. In offshore areas the species prefers sheltered situations, particularly near islands, and is rarely seen beyond reefs (Higgins & Davis 1996).	2017 (9)	Low	The species has specific habitat requirements that are not present in the study area.
Chatham Albatross	<i>Thalassarche eremita</i>		Endangered, Migratory	Breeding for the Chatham Albatross is restricted to Pyramid Rock, Chatham Islands, off the coast of New Zealand (Gales 1998). The principal foraging range for this species is in coastal waters off eastern and southern New Zealand, and Tasmania (Environment Australia 1999; Marchant & Higgins 1990). The Chatham Albatross is a marine species. It occurs in subantarctic and subtropical waters reaching the tropics in the cool Humboldt Current off South America (Marchant & Higgins 1990). It has been noted in shelf-waters around breeding islands, over continental shelves during the non-breeding season, and occurs inshore and offshore (Cox 1976; Falla 1937; Marchant 1977). It enters harbours and bays (Jehl 1973) and is scarce in pelagic waters (Falla 1937; Jehl 1973).	PMST	Low	The species has not been recorded previously within 10 kilometres of the study area

Common Greenshank	<i>Tringa nebularia</i>		Migratory	In NSW the species has been recorded in most coastal regions. It is widespread west of the Great Dividing Range, especially between the Lachlan and Murray Rivers and the Darling River drainage basin, including the Macquarie Marshes, and north-west regions (Higgins & Davies 1996). Widely distributed throughout a range of inland wetlands and sheltered coastal habitats. Occurs in habitats with varying salinity.	2007 (2)	Low	The species has specific habitat requirements that are not present in the study area.
					PMST		
Common Noddy	<i>Anous stolidus</i>		Migratory	The Common Noddy is found on off-shore tropical islands, often in large colonies of more than 100,000 nests. The Common Noddy is found in tropical and sub-tropical seas off the west, north and east coasts of Australia, from the Abrolhos Islands in WA to the islands of the Great Barrier Reef in Qld, as well as Norfolk and Lord Howe Islands. Some are seen almost annually in NSW as far south as Sydney. It also ranges across tropical parts of the Pacific, Indian and Atlantic Oceans.	1991 (1)	Low	The species has specific habitat requirements that are not present in the study area.
					PMST		

Common Sandpiper	<i>Actitis hypoleucos</i>		Migratory	Inhabits a wide range of coastal and inland wetlands, often with muddy or rocky margins. Also known to occur at estuaries, billabongs, dams, pools and lakes, often associated with mangroves.	2013 (6)  PMST	Low	The species has specific habitat requirements that are not present in the study area.
Common Tern	<i>Sterna hirundo</i>		Migratory	Marine, typically well offshore, but also in coastal waters, sheltered bays, estuaries, and on ocean beaches.	2020 (29)	Low	The species has specific habitat requirements that are not present in the study area.
Cotton Pygmy-Goose	<i>Nettapus coromandelianus</i>	Endangered		The Cotton Pygmy-goose is now a rare visitor to NSW but once was found from north Queensland to the Hunter River in NSW. Inhabits freshwater lakes, lagoons, swamps and dams, particularly those vegetated with waterlilies and other floating and submerged aquatic vegetation. Roosting and breeding occurs in tall standing dead trees with hollows located close to water.	1992 (4)	Low	The species has historically (>20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present.
Crested Tern	<i>Thalasseus bergii</i>		Migratory	The species inhabits tropical and subtropical coastlines, foraging in the shallow waters of lagoons, coral reefs, estuaries, bays, harbours and inlets, along sandy, rocky, coral or muddy shores, on rocky outcrops in open sea, in mangrove swamps and also far out to sea on open water. It shows a preference for nesting on offshore islands, low-lying coral reefs, sandy or rocky coastal islets, coastal spits, lagoon mudflats, and artificial islets in salt pans and sewage works.	2020 (29)	Low	The species has specific habitat requirements that are not present in the study area.

Curlew Sandpiper	<i>Calidris ferruginea</i>	Endangered	Critically endangered, Migratory	<p>The Curlew Sandpiper is distributed around most of the Australian coastline, including Tasmania. In NSW, it occurs along the entire coastline, particularly in the Hunter Estuary and sometimes in freshwater wetlands in the Murray-Darling Basin. Inland records are likely to be during the species migration, where they arrive in Australia for the non-breeding period between August and November, departing between March and mid-April. The Curlew Sandpiper generally occupies littoral and estuarine habitats. In NSW, it is mainly found in intertidal mudflats of sheltered coasts.</p>	2011 (88)	Low	The species has specific habitat requirements that are not present in the study area.
					PMST		
Diamond Firetail	<i>Stagonopleura guttata</i>	Vulnerable		<p>The Diamond Firetail is endemic to south-eastern Australia, extending from central Queensland to the Eyre Peninsula in South Australia. In NSW, it is widely distributed, with concentrated records from the Northern, Central and Southern Tablelands, as well as the Northern, Central and South Western Slopes, North West Plains, and the Riverina. The species is not commonly found in coastal regions, though there are records from around Sydney and the Hunter and Bega Valleys. The species has a scattered distribution over the rest of NSW, though it is very rare west of the Darling River. The Diamond Firetail is found in grassy eucalypt woodlands, including Box-Gum Woodlands and Snow Gum Eucalyptus pauciflora Woodlands. They also occur in open forest, mallee, Natural Temperate Grassland, and in secondary grassland derived from other communities. The species is often found in riparian areas and sometimes in lightly wooded farmland.</p>	1985 (2)	Low	The species has historically (>20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present.
Double-banded Plover	<i>Charadrius bicinctus</i>		Migratory	<p>Tidal mudflats, beaches, exposed reefs, salt marshes, freshwater wetlands, inland salt lakes, short grass on golf courses, airfields.</p>	PMST	Low	The species has specific habitat requirements that are not present in the study area.
Dusky Woodswallow	<i>Artamus cyanopterus cyanopterus</i>	Vulnerable		<p>The Dusky Woodswallow is widespread in eastern, southern and south-western Australia. The species occurs throughout most of NSW, but is sparsely scattered in, or largely absent from, much of the upper western region. The species primarily inhabits dry, open eucalypt forests and woodlands, including mallee associations, with an open or sparse understorey of eucalypt saplings, acacias and other shrubs, and ground-cover of grasses, sedges and fallen woody debris. It has also been recorded in shrublands, heathlands and very occasionally in moist forest or rainforest. It has also been recorded in farmland, usually at the edges of forest or woodland.</p>	2012 (6)	Low	The species has specific habitat requirements that are not present in the study area.



Eastern Bristlebird	<i>Dasyornis brachypterus</i>	Endangered	Endangered	The distribution of the Eastern Bristlebird has contracted to three disjunct areas of south-eastern Australia. There are three main populations: Northern (southern Queensland/northern NSW), Central (Barren Ground Nature Reserve, Budderoo Nature Reserve, Woronora Plateau, Jervis Bay National Park, Booderee National Park and Beecroft Peninsula) and Southern (Nadgee Nature Reserve and Croajingalong National Park near the NSW/Victorian border). Habitat for central and southern populations is characterised by dense, low vegetation including heath and open woodland with a heathy understorey. In northern NSW, habitat occurs in open forest with dense tussocky grass understorey and sparse mid-storey near rainforest ecotone; all of which are prone to fire. Age of habitat since fire is of paramount importance to this species.	PMST	Low	The species has not been recorded previously within 10 kilometres of the study area
Eastern Cave Bat	<i>Vespadelus troughtoni</i>	Vulnerable		Found in a broad band on both sides of the Great Dividing Range from Cape York to Kempsey, with records from the New England Tablelands and the upper north coast of NSW. The western limit of the Eastern Cave Bat distribution in NSW appears to be the Warrumbungle Range. A cave-roosting species usually found in dry open forest and woodland, near cliffs or rocky overhangs. Has also been recorded roosting in disused mine workings. Occasionally found along cliff-lines in wet eucalypt forest and rainforest.	2020 (1)	Low	The species has specific habitat requirements that are not present in the study area.
Eastern Chestnut Mouse	<i>Pseudomys gracilicaudatus</i>	Vulnerable		Within NSW the Eastern Chestnut Mouse mainly occurs north from the Hawkesbury River area as scattered records along to coast and eastern fall of the Great Dividing Range extending north into Queensland. There are also some isolated records in the Jervis Bay area. Mostly found in heathland and is most common in dense, wet heath and swamps. In the tropics it is more common in grassy woodlands. Optimal habitat appears to be vigorously regenerating heathland burnt from 18 months to four years previously.	2019 (1)	Low	The species has specific habitat requirements that are not present in the study area.
Eastern Coastal Free-tailed Bat	<i>Micronomus norfolkensis</i>	Vulnerable		Occur in dry sclerophyll forest, woodland, swamp forests and mangrove forests east of the Great Dividing Range.;1 Roost mainly in tree hollows but will also roost under bark or in man-made structures.;2 Usually solitary but also recorded roosting communally, probably insectivorous.;3	2021 (13)	Moderate	The species is unlikely to maintain a resident population in the study area, however may occasionally utilise resources within the study area.

Eastern Curlew	<i>Numenius madagascariensis</i>		Critically endangered, Migratory	<p>The Eastern Curlew migrates to Australia for the non-breeding season. Within Australia, the Eastern Curlew is found across all States, and has a primarily coastal distribution, with birds rarely recorded inland. In NSW, the species occurs across the entire coast but is mainly found in estuaries such as the Hunter River, Port Stephens, Clarence River, Richmond River and Intermittently Closed and Open Lakes and Lagoons (ICOLLs) of the south coast. The species generally occupies coastal lakes, inlets, bays and estuarine habitats. In NSW, it is mainly found in intertidal mudflats and sometimes saltmarsh of sheltered coasts. Occasionally, the species is found on ocean beaches (often near estuaries) as well as coral reefs, rock platforms or rocky islets.</p>	1984 (1)	Low	The species has specific habitat requirements that are not present in the study area.
					PMST		
Eastern False Pipistrelle	<i>Falsistrellus tasmaniensis</i>	Vulnerable		<p>The Eastern False Pipistrelle is found on the south-east coast and ranges of Australia, from southern Queensland to Victoria and Tasmania. The species prefers moist habitats, with trees over 20 metres tall. The Eastern False Pipistrelle generally roosts in eucalypt hollows but has also been found under loose bark on trees, or in buildings.</p>	2019 (5)	Low	The species has specific habitat requirements that are not present in the study area.
Eastern Osprey	<i>Pandion cristatus</i>	Vulnerable		<p>Eastern Ospreys are found around the coastline of mainland Australia, except for Victoria. The species is common around the northern coast, especially on rocky shorelines, islands and reefs. Eastern Osprey are uncommon to rare, or absent, from closely settled parts of south-eastern Australia. A few records exist inland. The species favours coastal areas, especially the mouths of large rivers, lagoons and lakes.</p>	2020 (31)	Low	The species has specific habitat requirements that are not present in the study area.
Eastern Pygmy-possum	<i>Cercartetus nanus</i>	Vulnerable		<p>The Eastern Pygmy Possum is found in south-eastern Australia, from southern Queensland to eastern South Australia and in Tasmania. In NSW, the species is found from the coast to inland on the western slopes, around the Pilliga, Dubbo, Parkes and Wagga Wagga. The Eastern Pygmy Possum is found in a broad range of habitats from rainforest through sclerophyll (including Box-Ironbark) forest and woodland to heath. Woodlands and heath appear to be preferred, except in north-eastern NSW where they are most frequently found in rainforests.</p>	2021 (402)	Low	The species has specific habitat requirements that are not present in the study area.



Fork-tailed Swift	<i>Apus pacificus</i>		Migratory	<p>In NSW, the Fork-tailed Swift is recorded in all regions. They often occur over cliffs and beaches and also over islands and sometimes well out to sea. They also occur over settled areas, including towns, urban areas and cities. They mostly occur over dry or open habitats, including riparian woodland and tea-tree swamps, low scrub, heathland or saltmarsh. They are also found at treeless grassland and sandplains covered with spinifex, open farmland and inland and coastal sand-dunes. The sometimes occur above rainforests, wet sclerophyll forest or open forest or plantations of pines (Higgins 1999). They forage aerially, up to hundreds of metres above ground, but also less than one metre above open areas or over water.</p>	2018 (14)	Low	The species has specific habitat requirements that are not present in the study area.
					PMST		
Freckled Duck	<i>Stictonetta naevosa</i>	Vulnerable		<p>Distributed primarily in south-eastern and south-western Australia. Favours permanent freshwater swamps and creeks with heavy growth of Cumbungi, Lignum or Tea-tree. During drier times they move from ephemeral breeding swamps to more permanent waters such as lakes, reservoirs, farm dams and sewage ponds. Nesting occurs in dense vegetation at or near water level.</p>	2013 (1)	Low	The species has specific habitat requirements that are not present in the study area.

Gang-gang Cockatoo	<i>Callocephalon fimbriatum</i>	Vulnerable	Endangered	<p>The Gang-gang Cockatoo is distributed from southern Victoria through south and central-eastern NSW. In NSW, the species is distributed from the south-east coast to the Hunter region, and inland to the Central Tablelands and south-west slopes. The Gang-gang Cockatoo occurs regularly in the ACT and is rare at the extremities of its range, with isolated records known from as far north as Coffs Harbour and as far west as Mudgee. During spring and summer, the species is generally found in tall mountain forests and woodlands, particularly in heavily timbered and mature wet sclerophyll forests. In autumn and winter, the species typically moves to lower altitudes to inhabit drier, open eucalypt forests and woodlands (particularly Box-Gum and Box-Ironbark assemblages) or in dry forest in coastal and urban areas. It may also occur in sub-alpine Snow Gum (<i>Eucalyptus pauciflora</i>) woodland, and occasionally in temperate rainforests. The species favours old growth forest and woodland for nesting and roosting.</p>	2013 (2)	Low	The species has specific habitat requirements that are not present in the study area.
					PMST		
Giant Burrowing Frog	<i>Heleioporus australiacus</i>	Vulnerable	Vulnerable	<p>The Giant Burrowing Frog is distributed in south eastern NSW and Victoria and appears to exist as two distinct populations: Northern (largely confined to the sandstone geology of the Sydney Basin, extending as far south as Ulladulla) and Southern (occurring from north of Narooma through to Walhalla, Victoria). The species is found in heath, woodland and open dry sclerophyll forest on a variety of soil types except those that are clay based. The Giant Burrowing Frog requires ephemeral and permanent freshwater wetlands, ponds and dams with an open aspect and fringed by Typha, as well as free from predatory fish. The species spends more than 95% of its time in non-breeding habitat; burrowing below the soil surface or in the leaf litter. Individuals occupy a series of burrow sites, some of which are used repeatedly. Non-breeding sites are usually located up to 300 metres from breeding sites, and home ranges are approximately 0.04 hectares in size.</p>	PMST	Low	The species has not been recorded previously within 10 kilometres of the study area
Giant Dragonfly	<i>Petalura gigantea</i>	Endangered		<p>Distributed along the east coast of NSW from the Victorian border to northern NSW, is not found west of the Great Dividing Range. Lives in permanent swamps and bogs with some free water and open vegetation. Adults spend most of their time settled on low vegetation on or adjacent to the swamp.</p>	2018 (1)	Low	The species has specific habitat requirements that are not present in the study area.
Gibson's Albatross	<i>Diomedea antipodensis gibsoni</i>		Marine	<p>Essentially endemic to the Auckland Islands of New Zealand. The non-breeding range is poorly known however the species probably disperses across the southern Pacific. The species is regularly encountered on trans-Tasman shipping routes and at seas off Sydney, and regularly occurs off the NSW coast usually between Green Cape and Newcastle.</p>	PMST	Low	The species has specific habitat requirements that are not present in the study area.

Glossy Black Cockatoo	<i>Calyptorhynchus lathami</i>	Vulnerable		The Glossy Black-Cockatoo is widespread but uncommon throughout suitable forest and woodland habitats from the central Queensland coast to East Gippsland in Victoria, and inland to the southern tablelands and central western plains of NSW, with a small population in the Riverina. An isolated population also exists on Kangaroo Island in South Australia. The species inhabits open forest and woodlands of the coast and the Great Dividing Range where stands of Sheoak occur. The species feeds almost exclusively on Casuarina and Allocasuarina species, with Black Sheoak ( <i>Allocasuarina littoralis</i> ) and Forest Sheoak ( <i>A. torulosa</i> ) being important foraging resources for the species. Inland populations feed on a wider range of Sheoaks, and Belah may also be a critical food source for some populations. In the Riverina, birds are associated with hills and rocky rises supporting Drooping Sheoak and Belah.	2021 (15)	Low	The species has specific habitat requirements that are not present in the study area.
Gould's Petrel	<i>Pterodroma leucoptera leucoptera</i>	Vulnerable	Endangered	The Gould's Petrel breeds on both Cabbage Tree Island, 1.4 kilometres offshore from Port Stephens and on nearby Boondelbah island. Principal nesting habitat is located within two gullies which are characterised by steeply, sloping rock scree with a canopy of Cabby Tree Palms. Nesting occurs predominantly in natural rock crevices among the rock scree and also hollow fallen palm trunks, under mats of fallen palm fronds and in cavities among the buttresses of fig trees.	1991 (1)	Low	The species has historically (>20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present.
					PMST		
Great Frigatebird	<i>Fregata minor</i>			A marine, pelagic species that inhabits tropical and subtropical seas, coastlines and islands.	PMST	Low	The species has specific habitat requirements that are not present in the study area.
Great Knot	<i>Calidris tenuirostris</i>	Vulnerable	Critically endangered, Migratory	In NSW the Great Knot is recorded at scattered sites along the coast down to around Narooma. They occur in sheltered coastal habitats containing large intertidal mudflats, sandflats or sandy beaches with mudflats nearby. Sometimes they may be found on exposed reefs or rock platforms.	PMST	Low	The species has specific habitat requirements that are not present in the study area.



Greater Broad-nosed Bat	<i>Scoteanax rueppellii</i>	Vulnerable		The Greater Broad-nosed Bat is found mainly in the gullies and river systems that drain the Great Diving Range, from north-eastern Victoria to the Atherton Tableland. The species extends to the coast over much of its range. In NSW, the Greater Broad-nosed Bat is widespread over the New England Tablelands, however it does not occur at altitudes above 500 metres. The species utilises a variety of habitats from woodland through to moist and dry eucalypt forest and rainforest, though it is most commonly found in tall wet forest. Although the species predominantly roosts in tree hollows, it has also been recorded roosting in buildings.	2020 (7)	Low	The species has specific habitat requirements that are not present in the study area.
Greater Glider	<i>Petauroides volans</i>		Endangered	The Greater Glider is Australia's largest gliding mammal. Greater Gliders have thick, dark grey-brown fur on their back and creamy white fur on their under-side, and can be found in different dark and light-coloured morphs. They have a long, furry prehensile tail and large furry ears. Greater Gliders are forest dependent and prefer older tree age classes in moist forest types. They use hollow-bearing trees for shelter and nesting, with each family group using multiple den trees within its home range. They eat mainly young eucalypt leaves, with a preference for certain species.	PMST	Low	The species has specific habitat requirements that are not present in the study area.
Greater Sand Plover	<i>Charadrius leschenaultii</i>	Vulnerable	Vulnerable, Migratory	The Greater Sand-plover breeds in central Asia from Armenia to Mongolia, moving further south for winter. In Australia the species is commonly recorded in parties of 10-20 on the west coast, with the far northwest being the stronghold of the population. The species is apparently rare on the east coast, usually found singly. In NSW, the species has been recorded between the northern rivers and the Illawarra, with most records coming from the Clarence and Richmond estuaries.	PMST	Low	The species has specific habitat requirements that are not present in the study area.
Green and Golden Bell Frog	<i>Litoria aurea</i>	Endangered	Vulnerable	The Green and Golden Bell Frog exists in approximately 50 recorded locations across NSW, most of which are small, coastal, or near coastal populations. These locations occur over the species' former range; however, they are widely separated and isolated. Large populations in NSW are located around the metropolitan areas of Sydney, Shoalhaven and the mid-north coast (with one island population). There is only one known population on the NSW Southern Tablelands. The species inhabits marshes, dams and stream-sides, particularly those containing bulrushes ( <i>Typha</i> spp.) or spikerushes ( <i>Eleocharis</i> spp.). Optimal habitat includes waterbodies that are unshaded, free of predatory fish such as Plague Minnow/Mosquito Fish ( <i>Gambusia holbrooki</i> ), have a nearby grassy area and available sheltering sites. Some sites, particularly in the Greater Sydney region, occur in highly disturbed areas.	1999 (15)	Low	The species has historically (>20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present.
					PMST		

Grey Falcon	<i>Falco hypoleucos</i>	Endangered	Vulnerable	Falco hypoleucos	PMST	Low	The species has specific habitat requirements that are not present in the study area.
Grey Plover	<i>Pluvialis squatarola</i>		Migratory	Grey Plovers occur almost entirely in coastal areas, where they usually inhabit sheltered embayments, estuaries and lagoons with mudflats and sandflats, and occasionally on rocky coasts with wave-cut platforms or reef-flats, or on reefs within muddy lagoons. They also occur around terrestrial wetlands such as near-coastal lakes and swamps, or salt-lakes. The species is also very occasionally recorded further inland, where they occur around wetlands or salt-lakes (Marchant & Higgins 1993 and references therein).	2017 (9)	Low	The species has specific habitat requirements that are not present in the study area.
Grey-headed Albatross	<i>Thalassarcha chrysostomus</i>		Endangered	A marine pelagic species which visits Australian subtropical waters during winter. Only ventures near the coast during rough conditions.	1931 (1)	Low	The species has historically (>20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present.
Grey-headed Flying-fox	<i>Pteropus poliocephalus</i>	Vulnerable	Vulnerable	The Grey-headed Flying-fox is generally found within 200 kilometres of the coast in eastern Australia, from Rockhampton in Queensland to Adelaide in South Australia. In times of natural resource shortages, the species can occur in unusual locations. The Grey-headed Flying-fox occurs in subtropical and temperate rainforests, tall sclerophyll forests and woodlands, heaths and swamps as well as urban gardens and cultivated fruit crops. Roosting camps are generally located within 20 kilometres of regular food sources, and are commonly found in gullies, close to water, in vegetation with a dense canopy. Site fidelity to camps are high, and the species travels up to 50 km from these camps to forage, typically commuting distances up to 20 kilometres from the	2021 (2455)	High	The species has specific habitat requirements that are present in the study area.

				camp site.	PMST		<p>The species is known or likely to maintain resident populations in proximity to the study area and could utilise resources within the study area.</p> <p>The species is known or likely to regularly utilise resources in the study area.</p>
Grey-tailed Tattler	<i>Tringa brevipes</i>		Migratory	Found in estuaries, mangroves and tidal mudflats. Also in shallow river margins, both coastal and inland.	1995 (3)  PMST	Low	<p>The species has historically (&gt;20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present.</p>
Indian Yellow-nosed Albatross	<i>Thalassarche carteri</i>			The Indian Yellow-nosed Albatross is a marine bird, located in subtropical and warmer subantarctic waters (Marchant & Higgins 1990). In the Australasian region, the species occupies inshore and offshore waters (Latham 1980; Storr 1964; Swanson 1983), particularly where there are calm seas and light winds (Cox 1973; Storr 1964). The birds fly low or at medium heights over the sea, using air currents rising off swells for lift (Marchant & Higgins 1990).	PMST	Low	The species has not been recorded previously within 10 kilometres of the study area
Kermadec Petrel (west Pacific subspecies)	<i>Pterodroma neglecta neglecta</i>	Vulnerable	Vulnerable	The only known breeding sites in Australian waters are Balls Pyramid near Lord How Island and Phillip Island, the Kermadec Petrel ranges over subtropical and tropical waters of the South Pacific. Nesting occurs in a crevice amongst rocks. Vagrant birds occur in coastal NSW waters, particularly after storm events.	PMST	Low	The species has not been recorded previously within 10 kilometres of the study area

Koala	<i>Phascolarctos cinereus</i>	Vulnerable	Endangered	<p>The Koala has a fragmented distribution throughout eastern Australia from north-east Queensland to the Eyre Peninsula in South Australia. In NSW, it mainly occurs on the central and north coasts with some populations in the west of the Great Dividing Range. It also has sparse and possibly disjunct populations in the Southern Tablelands. The Koala is also known from several sites on the Southern Tablelands. The species inhabits eucalypt woodlands and forests, and feeds on select species; about 70 eucalypt species and 30 non-eucalypt species but will select preferred browse species in any one area.</p>	2019 (9)	Low	The species has specific habitat requirements that are not present in the study area.
					PMST		
Large Bent-winged Bat	<i>Miniopterus orianae oceanensis</i>	Vulnerable		<p>Caves are the primary roosting habitat, but also use derelict mines, storm-water tunnels, buildings and other man-made structures.;1 Form discrete populations centred on a maternity cave that is used annually in spring and summer for the birth and rearing of young.;2 Maternity caves have very specific temperature and humidity regimes.;3 At other times of the year, populations disperse within about 300 km range of maternity caves.;4 Cold caves are used for hibernation in southern Australia.;5 Breeding or roosting colonies can number from 100 to 150,000 individuals.;6 Hunt in forested areas, catching moths and other flying insects above the tree tops.;7 </p>	2021 (237)	Low	The species is unlikely to maintain a resident population in the study area, however, may occasionally utilise resources within the study area.

Large-eared Pied Bat	<i>Chalinolobus dwyeri</i>	Vulnerable	Vulnerable	<p>The Large-eared Pied Bat is found mainly in areas with extensive cliffs and caves, and in well-timbered areas containing gullies, from Rockhampton in Queensland to Bungonia in the NSW Southern Highlands. In NSW, the species is generally rare with a very patchy distribution. Scattered records exist from the New England Tablelands and North West Slopes. The species roosts in cave entrances, crevices in cliffs, old mine workings and in the disused, bottle-shaped mud nests of Fairy Martins (<i>Petrochelidon ariel</i>), frequenting low to mid-elevation dry open forest and woodland close to these features.</p>	2021 (9)	Low	The species has specific habitat requirements that are not present in the study area.
					PMST		
Latham's Snipe	<i>Gallinago hardwickii</i>		Migratory	<p>In Australia, Latham's Snipe occurs in permanent and ephemeral wetlands up to 2000 m above sea-level (Chapman 1969; Naarding 1981). They usually inhabit open, freshwater wetlands with low, dense vegetation (e.g. swamps, flooded grasslands or heathlands, around bogs and other water bodies) (Frith et. al. 1977; Naarding 1983; Weston 2006, pers. comm.). However, they can also occur in habitats with saline or brackish water, in modified or artificial habitats, and in habitats located close to humans or human activity (Frith et al. 1977; Naarding 1983).</p>	2020 (40)	Low	The species has specific habitat requirements that are not present in the study area.
					PMST		

Lesser Frigatebird	<i>Fregata ariel</i>		Migratory	A marine, pelagic species that inhabits tropical and subtropical seas, coastlines and islands.	PMST	Low	The species has specific habitat requirements that are not present in the study area.
Lesser Sand-plover	<i>Charadrius mongolus</i>	Vulnerable	Endangered, Migratory	The Lesser Sand-plover may occur around the entire Australian Coast but is most commonly found from northern NSW north along Queensland's east coast and in the Gulf of Carpentaria. Records are rare south of the Shoalhaven estuary and inland. The Lesser Sand-plover favours coastal environs within NSW including beaches of shelter bays and estuaries with large intertidal sandflats or mudflats. They roost on sandy beaches or rocky shores at high tide.	PMST	Low	The species has specific habitat requirements that are not present in the study area.
Little Bent-winged Bat	<i>Miniopterus australis</i>	Vulnerable		The Little Bentwing-bat occurs along the east coast of Australia, ranging from Cape York in Queensland to Wollongong in NSW. The species inhabits moist eucalypt forest, rainforest, vine thicket, wet and dry sclerophyll forest, Melaleuca swamps, dense coastal forests and Banksia scrub. The Little Bentwing-bat is generally found in well-timbered areas, and roosts in caves, tunnels, tree hollows, abandoned mines, stormwater drains, culverts, bridges and sometimes buildings.	2021 (53)	Moderate	The species is unlikely to maintain a resident population in the study area, however may occasionally utilise resources within the study area.
Little Curlew	<i>Numenius minutus</i>		Migratory	Short, dry grasslands and sedgeland, including dry floodplains and blacksoil plains, which have scattered, shallow freshwater pools. Mostly feed in dry grassland or sedgeland, either natural or artificial. Foraging sites usually occur within 5km of daytime roosting sites.	1992 (2)  PMST	Low	The species has historically (>20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present.
Little Eagle	<i>Hieraaetus morphnoides</i>	Vulnerable		The Little Eagle is found throughout the Australian mainland, except the most densely forested parts of the Dividing Range escarpment. The Little Eagle occurs as a single population throughout NSW. The species occupies open eucalypt forest, woodland or open woodland, and uses Sheoak or Acacia woodlands and riparian woodlands of inland NSW.	2020 (8)	Low	The species has specific habitat requirements that are not present in the study area.



Little Lorikeet	<i>Glossopsitta pusilla</i>	Vulnerable		The Little Lorikeet is distributed widely across the coastal and Great Divide regions of eastern Australia from Cape York to South Australia. In NSW, lorikeets are found westward as far as Dubbo and Albury, and the State provides a large portion of the species core habitat. The Little Lorikeet forages primarily in the canopy of open Eucalyptus forest and woodland, yet also finds food in Angophora, Melaleuca and other tree species. Riparian habitats are highly used, due to higher soil fertility and greater productivity. The species targets isolated flowering trees in open country, such as in paddocks or in roadside remnants and street trees; which help sustain viable populations.	2021 (14)	Moderate	The species is unlikely to maintain a resident population in the study area, however may occasionally utilise resources within the study area.
Little Tern	<i>Sterna albifrons</i>	Endangered	Migratory	Within NSW the Little Tern occurs mainly north of Sydney but is found in smaller numbers south to Victoria. Occurs almost exclusively in coastal areas preferring sheltered environments however may also occur several metres/kilometres from the sea in harbours, inlets and rivers. Occasionally recorded on offshore islands or coral cay. Nests near estuary mouths or adjacent to coastal lakes and islands.	2010 (7)	Low	The species has specific habitat requirements that are not present in the study area.
					PMST		
Long-nosed Bandicoot, North Head	<i>Perameles nasuta</i>	Endangered population		The Inner Western Sydney endangered population of the Long-nosed bandicoot includes local government areas (LGA) of Marrickville and Canada Bay with the likelihood that it also includes Canterbury, Ashfield and Leichhardt LGAs. Disjunct from nearest records which occur north of the Parramatta River or further south at Holsworthy Military Reserve. Shelter mostly under older houses and buildings with no large blocks of suitable habitat likely to support a large source population. North Head population is restricted to North Head in the Manly LGA. Shelters during the day in a well-concealed nest based on a shallow hole lined with leaves and grass, sometimes under debris.	2021 (2906)	Low	The species has specific habitat requirements that are not present in the study area.

Long-tailed Jaeger	<i>Stercorarius longicaudus</i>		Migratory	During the breeding season long-tailed jaegers typically inhabit arctic tundra regions which are far from sea. These areas have some shrub coverage, are generally flat, and are populated by rodents of some type. On occasion they will dwell in marshy areas but they usually prefer wide open, rocky terrain.	1992 (1)	Low	The species has historically (>20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present.
Magpie Goose	<i>Anseranas semipalmata</i>	Vulnerable		Mainly found in shallow wetlands (less than 1 m deep) with dense growth of rushes or sedges. Increasing numbers of the Magpie Goose have been sighted in central and northern NSW since the 1980s after a previous decrease due to lack of habitat. They are often seen on dry ephemeral swamps, wet grasslands and floodplains, shallow wetlands and roosting in tall vegetation. They are at home in both aquatic and terrestrial habitats and have been seen walking and grazing on land. Breeding is strongly influenced by water level. The majority of breeding occurs in monsoonal areas. Nesting occurs in trees over deep water and breeding is considered unlikely in south-eastern NSW.	1988 (10)	Low	The species has specific habitat requirements that are not present in the study area. The species has historically (>20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present.
Marsh Sandpiper	<i>Tringa stagnatilis</i>		Migratory	Inhabits permanent or ephemeral wetlands, including swamps, billabongs, lagoons, saltmarshes and estuaries. Forages at the edge of wetlands in shallow water.	1992 (1)  PMST	Low	The species has historically (>20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present.
Masked Owl	<i>Tyto novaehollandiae</i>	Vulnerable		The Masked Owl is most abundant on the coast but extends to the western plains. About 90% of overall records occur within NSW; excluding the most arid north-western corner. The species occupies dry, eucalypt forests and woodlands up to 1,100 metres altitude. The Masked Owl typically prefers open forest with low shrub density and requires old trees for roosting and nesting.	2012 (4)	Low	The species has specific habitat requirements that are not present in the study area.

Northern Buller's Albatross	<i>Thalassarche bulleri platei</i>		Vulnerable	The Northern Buller's Albatross is a non-breeding visitor to Australian waters. Foraging birds are mostly limited to the Pacific Ocean and the Tasman Sea, although birds do reach the east coast of the Australian mainland (EA 2001f).	PMST	Low	The species has not been recorded previously within 10 kilometres of the study area
Northern Giant-Petrel	<i>Macronectes halli</i>	Vulnerable	Vulnerable	The Northern Giant-Petrel has a circumpolar pelagic range and is a common visitor off the coast of NSW, predominantly along the south-east coast during winter and autumn. Breeding within Australian territory is limited to Macquarie Island among tussocks of dense vegetation and areas of broken terrain.	2011 (1)   <		

Oriental Cuckoo	<i>Cuculus optatus</i>		Migratory	The Oriental Cuckoo in eastern New South Wales, eastern Queensland and Cape York Peninsula, and top end of Northern Territory. Habitat includes forest, woodland, riverside trees.	2018 (3)  PMST	Low	The species has specific habitat requirements that are not present in the study area.
Pacific Golden Plover	<i>Pluvialis fulva</i>		Migratory	Pacific Golden Plovers usually occur on beaches, mudflats and sandflats (sometimes in vegetation such as mangroves, low saltmarsh such as Sarcocornia, or beds of seagrass) in sheltered areas including harbours, estuaries and lagoons, and also in evaporation ponds in saltworks.	2008 (48)  PMST	Low	The species has specific habitat requirements that are not present in the study area.
Painted Honeyeater	<i>Grantiella picta</i>			The Painted Honeyeater is nomadic and occurs at low densities throughout its range. The greatest concentrations of Painted Honeyeater, as well as all breeding events, occur on the inland slopes of the Great Dividing Range in NSW, Victoria and southern Queensland. During the winter, it is more likely to be found in the north of its range. The species inhabits Boree/Weeping Myall ( <i>Acacia pendula</i> ), Brigalow ( <i>A. harpophylla</i> ), Box-Gum Woodlands and Box-Ironbark Forests. The Painted Honeyeater is also a specialist feeder on the fruits of mistletoes growing on woodland eucalypts and acacias; preferring mistletoes of the genus <i>Amyema</i> .	PMST	Low	The species has not been recorded previously within 10 kilometres10 kilometres of the study area

Pectoral Sandpiper	<i>Calidris melanotos</i>		Migratory	Scarce, but regular visitor, usually recorded in summer from November to March. Widespread but scattered records in Australia. Usually found in fresh to saline wetlands, floodplains, swamps, estuaries and lagoons, sometimes with emergent or fringing vegetation such as grass.	1992 (2)	Low	The species has specific habitat requirements that are not present in the study area.
					PMST		
Pied Oystercatcher	<i>Haematopus longirostris</i>	Endangered		In NSW the Pied Oystercatcher is found along the entire coast, they favour intertidal flats of inlets and bays, open beaches and sandbanks. Nesting occurs mostly on coastal or estuarine beaches although saltmarsh or grassy areas are used occasionally.	2020 (14)	Low	The species has specific habitat requirements that are not present in the study area.
Pilotbird	<i>Pycnoptilus floccosus</i>			Its natural habitat is temperate wet sclerophyll forests and occasionally temperate rainforest, where there is dense undergrowth with abundant debris. It is sedentary and common	PMST	Low	The species has not been recorded previously within 10 kilometres10 kilometres of the study area
Pomarine Jaeger	<i>Stercorarius pomarinus</i>		Migratory	A marine pelagic species, commonly observed off the NSW coastal waters.	2010 (3)	Low	The species has specific habitat requirements that are not present in the study area.

Powerful Owl	<i>Ninox strenua</i>	Migratory		The Powerful Owl is endemic to eastern and south-eastern Australia, mainly on the coastal side of the Great Dividing Range from Mackay to south-western Victoria. In NSW, it is widely distributed throughout the eastern forests from the coast inland to tablelands, with scattered records on the western slopes and plains suggesting occupancy prior to land clearing. Throughout its eastern range it occurs at low densities and are rare along the Murray River. Former inland populations may never recover. The species inhabits a range of vegetation types, from woodland and open sclerophyll forest to tall open wet forest and rainforest. The Powerful Owl typically requires large tracts of forest or woodland habitat with dense wet gullies and creek areas but can also occur in fragmented landscapes. The species breeds and hunts in open or closed sclerophyll forest of woodlands and occasionally hunts in open habitats. It roosts by day in dense vegetation comprising species such as Turpentine ( <i>Syncarpia glomulifera</i> ), Black She-oak ( <i>Allocasuarina littoralis</i> ), Blackwood ( <i>Acacia melanoxylon</i> ), Rough-barked Apple ( <i>Angophora floribunda</i> ), Cherry Ballart ( <i>Exocarpos cupressiformis</i> ) and a number of eucalypt species. The Powerful Owl requires large, mature trees with hollows for breeding, and dense areas of vegetation for foraging and roosting.	2021 (2038)	Moderate	The species has recently (<20 years) been recorded within 10 kilometres of the study area and the study area contains marginally suitable habitat for the species.
Red Goshawk	<i>Erythrorhynchus radiatus</i>	Critically endangered	Vulnerable	The Red Goshawk is considered very rare in NSW extending south to about 30°S with most records north of this in the Clarence River Catchment and few around the lower Richmond and Tweed Rivers. Habitat includes open woodland and forest with a mosaic of vegetation types being preferred. In NSW, preferred habitats include mixed subtropical rainforest, Melaleuca Swamp forest and riparian Eucalyptus forest of coastal rivers. Nesting sites are moved from the ranges to coastal plains where they are associated with permanent wetlands during winter in eastern Australia. Trees greater than 20 metres in height and within one kilometer of a watercourse or wetland are required for breeding.	PMST	Low	The species has specific habitat requirements that are not present in the study area.
Red Knot	<i>Calidris canutus</i>		Endangered, Migratory	Typically located within intertidal mudflats, sandflats and sandy beaches of sheltered coasts. Occasionally found on sandy open beaches or shallow pools, or in saline wetlands close to the coast.	2008 (15)  PMST	Low	The species has specific habitat requirements that are not present in the study area.
Red-crowned Toadlet	<i>Pseudophryne australis</i>	Vulnerable		The Red-crowned Toadlet is confined to the Sydney Basin, from Pokolbin in the north, Nowra to the south, and Mt Victoria in the Blue Mountains to the west. The species occurs in open forests, mostly on Hawkesbury and Narrabeen Sandstones. The Red-crowned Toadlet inhabits periodically wet drainage lines below sandstone ridges that often have shale lenses or capping, and shelters under rocks and amongst masses of dense vegetation or thick piles of leaf litter. Breeding congregations occur in dense vegetation and debris beside ephemeral creeks and gutters. The species has not been recorded breeding in waters that are even mildly polluted, or with a pH outside of 5.5 – 6.5.	2020 (247)	Low	The species has specific habitat requirements that are not present in the study area.

Red-necked Stint	<i>Calidris ruficollis</i>		Migratory	Inhabits mainly coastal environments; saltmarshes, tidal mudflats, saline and freshwater wetlands, sandy or shelly beaches and sewage ponds.	1998 (7)  PMST	Low	The species has specific habitat requirements that are not present in the study area.
Regent Honeyeater	<i>Anthochaera phrygia</i>	Critically endangered	Critically endangered	The Regent Honeyeater mainly inhabits temperate woodlands and open forests of the inland slopes of south-east Australia. The species is also found in drier coastal woodlands and forests. The species	1996 (6) PMST	Low	The species has specific habitat
Rose-crowned Fruit-Dove	<i>Ptilinopus regina</i>	Vulnerable		The Rose-crowned Fruit-dove is distributed along the coast and ranges of eastern Australia from Newcastle, NSW to Cape York. Vagrants are occasionally found further south. They inhabit mainly sub-tropical and dry rainforest and occasionally moist eucalypt forest and swamp forest, where fruit is plentiful.	2014 (1)	Low	The species has specific habitat requirements that are not present in the study area.
Rosenberg's Goanna	<i>Varanus rosenbergi</i>	Vulnerable		This species is a Hawkesbury/Narrabeen sandstone outcrop specialist. Occurs in heath, open forest and woodland and is associated with termites, the mounds of which the Rosenberg's Goanna nests in. Sheltering in hollow logs, rock crevices and in burrows. Distributed on the Sydney Sandstone in Wollemi National Park to the north-west of Sydney and is also distributed in the Goulburn regions and near Cooma, with records also occurring on the South West Slopes near Khancoban and Tooma River.	2021 (9)	Low	The species has specific habitat requirements that are not present in the study area.
Ruddy Turnstone	<i>Arenaria interpres</i>		Migratory	Inhabits tidal reefs, sandy beaches mudflats and exposed or shallow seaweed beds.	2007 (8)  PMST	Low	The species has specific habitat requirements that are not present in the study area.
Ruff	<i>Philomachus pugnax</i>		Migratory	Rare migrant from northern Eurasia regularly visits fresh, brackish or saline wetlands with exposed mudflats at edges, usually terrestrial but sometimes found in sheltered coast habitats.	PMST	Low	The species has not been recorded previously within 10 kilometres10 kilometres of the study area
Rufous Bettong	<i>Aepyprymnus rufescens</i>	Vulnerable		Occur in a variety of habitats from tall, moist eucalypt forest to open woodland with a tussock grass understory and are mainly found in north-eastern NSW and have largely vanished from inland areas. Their preferred shelter is a dense cover of tall native grasses.	No date (1)	Low	The species has specific habitat requirements that are not present in the study area.



Rufous Fantail	<i>Rhipidura rufifrons</i>		Migratory	The Rufous Fantail mainly inhabits wet sclerophyll forests, often in gullies dominated by eucalypts such as Tallow-wood ( <i>Eucalyptus microcorys</i> ), Mountain Grey Gum ( <i>E. cypellocarpa</i> ), Narrow-leaved Peppermint ( <i>E. radiata</i> ), Mountain Ash ( <i>E. regnans</i> ), Alpine Ash ( <i>E. delegatensis</i> ), Blackbutt ( <i>E. pilularis</i> ) or Red Mahogany ( <i>E. resinifera</i> ); usually with a dense shrubby understorey often including ferns. They also occur in subtropical and temperate rainforests.	PMST	Low	The species has not been recorded previously within 10 kilometres10 kilometres of the study area
Salvin's Albatross	<i>Thalassarche salvini</i>		Vulnerable, Migratory	Salvin's Albatross is a non-breeding visitor to Australian waters. During the non-breeding season, the species occurs over continental shelves around continents. It occurs both inshore and offshore (Cox 1976; Falla 1937; Marchant 1977) and enters harbours and bays (Jehl 1973). Salvin's Albatross is scarce in pelagic waters (Falla 1937; Jehl 1973).	PMST	Low	The species has not been recorded previously within 10 kilometres10 kilometres of the study area
Sanderling	<i>Calidris alba</i>	Vulnerable	Migratory	Migrates from Siberia and other Arctic breeding grounds to most of the Australian coastline and along the NSW coast with occasional inland sightings. Arriving from September and leave by May habitat areas include low beaches of firm sand, near reefs and inlets, tidal mudflats and bare open coastal lagoons. They roost on bare sand behind clumps of beach-cast kelp or in coastal dunes.	2005 (1)	Low	The species has specific habitat requirements that are not present in the study area.
Satin Flycatcher	<i>Myiagra cyanoleuca</i>		Migratory	Satin Flycatchers mainly inhabit eucalypt forests, often near wetlands or watercourses. They generally occur in moister, taller forests than the Leaden Flycatcher, Myiagra rebecca, often occurring in gullies (Blakers et al. 1984; Emison et al. 1987; Officer 1969). They also occur in eucalypt woodlands with open understorey and grass ground cover, and are generally absent from rainforest (Emison et al. 1987; Officer 1969)	PMST	Low	The species has not been recorded previously within 10 kilometres10 kilometres of the study area
Scarlet Robin	<i>Petroica boodang</i>	Vulnerable		The Scarlet Robin is found from south-east Queensland to south-east South Australia and in Tasmania, and south-west Western Australia. In NSW, it occurs from the coast to the inland slopes. After breeding, some Scarlet Robins disperse to the lower valleys and plains of the tablelands and slopes. Some birds may appear as far west as the eastern edges of the inland plains in autumn and winter. The species inhabits dry eucalypt forests and woodlands. The understorey is usually open and grassy with few scattered shrubs. The species lives in both mature and regrowth vegetation, occasionally occurring in mallee or wet forest communities, or in wetlands and tea-tree swamps. Abundant logs and fallen timber are key components of the species habitat. In autumn and winter, the Scarlet Robin may occupy open grassy woodlands and grasslands or grazed paddocks with scattered trees.	2016 (4)	Low	The species has specific habitat requirements that are not present in the study area.
Sharp-tailed Sandpiper	<i>Calidris acuminata</i>		Migratory	Inland waters, coastal.	2017 (102)  PMST	Low	The species has specific habitat requirements that are not present in the study area.

Short-tailed Shearwater	<i>Ardenna tenuirostris</i>		Migratory	Breeding visitor to central and pelagic waters of south and east Australia. Most common from September to March. Breeds on inshore islands, headlands and promontories of the south-east Australian mainland.	2019 (31)	Low	The species has specific habitat requirements that are not present in the study area.
Shy Albatross	<i>Thalassarche cauta</i>	Vulnerable	Vulnerable	A pelagic or ocean-going species inhabiting subantarctic and subtropical marine waters, spending the majority of its time at sea. Although uncommon north of Sydney, the species is commonly recorded off southeast NSW, particularly between July and November, and has been recorded in Ben Boyd National Park.	2009 (4)	Low	The species has specific habitat requirements that are not present in the study area.
					PMST		
Sooty Albatross	<i>Phoebastria fusca</i>	Vulnerable	Vulnerable	The Sooty Albatross is occasionally sighted off the NSW coast north of Grafton and is a pelagic or ocean-going species that inhabits subantarctic and subtropical marine waters, spending the majority of its time at sea and rarely occurs in continental shelf waters.	1944 (1)	Low	The species has historically (>20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present.
					PMST		

Sooty Owl	<i>Tyto tenebriosa</i>	Vulnerable		The Sooty Owl occupies the easternmost one-eighth of NSW, occurring on the coast, coastal escarpment and eastern tablelands. Territories are occupied permanently. The species inhabits rainforest, including dry rainforest, subtropical and warm temperate rainforest, as well as moist eucalypt forests.	2017 (3)	Low	The species has specific habitat requirements that are not present in the study area.
Sooty Oystercatcher	<i>Haematopus fuliginosus</i>	Vulnerable		Sooty Oystercatchers are found around the entire Australian coast, being evenly distributed along the NSW coast. They prefer rocky headlands, rocky shelves, exposed reefs with rock pools, beaches and muddy estuaries.	2010 (7)	Low	The species has specific habitat requirements that are not present in the study area.
Sooty Shearwater	<i>Ardenna grisea</i>		Migratory	<p>"Distribution: In the breeding season, southern summer, the Sooty Shearwater is found in the southern hemisphere from the iceberg zone around Antarctica northwards to its breeding islands around New Zealand, southern Australia and southern South America. In the non-breeding season it has been recorded as passing near Tonga, east of Hawaii and elsewhere in the North Pacific. Some stay in the northern hemisphere all year. It is uncommon in Queensland but has been seen off its south-east coast. It is commoner off New South Wales and visits Victoria, and is regularly seen in small numbers off Tasmania and South Australia. There are scattered observations from off Albany, Western Australia. Habitat:</p> <p>The Sooty Shearwater mostly lives over deep ocean waters, but is sometimes found in onshore areas particularly in rough weather. It breeds mostly on subtropical and subantarctic islands around Australasia and also on the New Zealand mainland."</p>	2013 (3)  PMST	Low	The species has specific habitat requirements that are not present in the study area.
Sooty Tern	<i>Onychoprion fuscatus</i>	Vulnerable		The Sooty Tern is found over tropical and sub-tropical seas and on associated island cay around Northern Australia. In NSW they are only known to breed at Lord Howe Island. They are occasionally seen along coastal NSW, especially after cyclones. Breeds in sand or coral scrapes on offshore islands and cays.	2001 (3)	Low	The species has historically (>20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present.



Southern Myotis	<i>Myotis macropus</i>	Vulnerable	N/A	The Southern Myotis is found in the coastal band from the north-west of Australia, across the top-end and south to western Victoria. It is rarely found more than 100 km inland, except along major rivers. The species generally roosts in groups of 10 - 15 close to water in caves, mine shafts, hollow-bearing trees, storm water channels, buildings, under bridges and in dense foliage.	2021 (114)	Moderate	The species is unlikely to maintain a resident population in the study area, however may occasionally utilise resources within the study area.
Spectacled Monarch	<i>Monarcha trivirgatus</i>		Migratory	Found in dense vegetation, mainly in rainforest but also in moist forest or wet sclerophyll and occasionally in other dense vegetation such as mangroves, drier forest and woodlands.	PMST	Low	The species has not been recorded previously within 10 kilometres of the study area
Spotted-tailed Quoll	<i>Dasyurus maculatus</i>	Vulnerable	Endangered	The range of the Spotted-tailed Quoll has contracted considerably since European settlement. It is now found in eastern NSW, eastern Victoria, south-east and north-eastern Queensland, and Tasmania. Only in Tasmania is it still considered relatively common. The species has been recorded across a range of habitat types, including rainforest, open forest, woodland, coastal heath and inland riparian forest, from the sub-alpine zone to the coastline. Individual animals use hollow-bearing trees, fallen logs, small caves, rock outcrops and rocky-cliff faces as den sites, and have communal latrine sites; often on flat rocks among boulder fields, rocky cliff-faces or along rocky stream beds or banks.	2009 (6)	Low	The species has specific habitat requirements that are not present in the study area.
					PMST		

Square-tailed Kite	<i>Lophoictinia isura</i>	Vulnerable		The Square-tailed Kite ranges along coastal and subcoastal areas from south-western to northern Australia, Queensland, NSW and Victoria. In NSW, scattered records of the species throughout the state indicate that the Square-tailed Kite is a regular resident in the north, north-east and along the major west-flowing river systems. It is a summer breeding migrant to the south-east, including the NSW south coast; arriving in September and leaving by March. The species is found in a variety of timbered habitats including dry woodlands and open forests and shows a preference for timbered watercourses. In arid north-western NSW, the species has been observed in stony country with a ground cover of chenopods and grasses, open Acacia scrub and patches of low open eucalypt woodland.	2021 (9)	Low	The species has specific habitat requirements that are not present in the study area.
Squirrel Glider	<i>Petaurus norfolcensis</i>	Vulnerable		The Squirrel Glider is widely though sparsely distributed in eastern Australia, from northern Queensland to western Victoria. The species inhabits mature or old growth Box, Box-Ironbark woodlands and River Red Gum forest west of the Great Dividing Range and Blackbutt-Bloodwood forest with heath understorey in coastal areas. The Squirrel Glider prefers mixed species stands with a shrub or Acacia Midstorey and requires abundant tree hollows for refuge and nest sites.	2000 (1)	Low	The species has historically (>20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present.
Streaked Shearwater	<i>Calonectris leucomelas</i>		Migratory	A marine species which can be found over both pelagic and inshore waters. It feeds mainly on fish and squid. Breeding begins in March in colonies on offshore islands	2010 (5)  PMST	Low	The species has specific habitat requirements that are not present in the study area.
Stuttering Frog	<i>Mixophyes balbus</i>	Endangered	Vulnerable	The Stuttering Frog occurs along the east coast of Australia from southern Queensland to north-eastern Victoria. The species is considered to have disappeared from Victoria and to have undergone considerable range contraction in NSW, particularly in south-east NSW. It is the only <i>Mixophyes</i> species that occurs in south-east NSW and in recent surveys it has only been recorded at three locations south of Sydney. The Dorrigo region, in north-east NSW, appears to be a stronghold for this species. The species is found in rainforest and wet, tall open forest in the foothills and escarpment on the eastern side of the Great Dividing Range. Outside of the breeding season adults live in deep leaf litter and thick understorey vegetation on the forest floor.	PMST	Low	The species has not been recorded previously within 10 kilometres of the study area
Superb Fruit-Dove	<i>Ptilinopus superbis</i>	Vulnerable		The Superb Fruit Dove's NSW distribution ranges from north-eastern NSW to as far south as Moruya. It is found in rainforests, similar closed forests where they forage high in the canopy. They may also forage in eucalypt and acacia woodlands where there are fruit-bearing trees.	2017 (25)	Low	The species has specific habitat requirements that are not present in the study area.

Swift Parrot	<i>Lathamus discolor</i>	Endangered	Critically endangered	<p>The Swift Parrot breeds in Tasmania during spring and summer, migrating in the autumn and winter months to south-eastern Australia from Victoria and the eastern parts of South Australia to south-east Queensland. In NSW, it mostly occurs on the coast and south west slopes. On the mainland they occur in areas where eucalypts are flowering profusely or where there is abundant lerp (from sap-sucking bugs) infestations. Favoured feed trees include winter flowering species such as Swamp Mahogany (Eucalyptus robusta), Spotted Gum (Corymbia maculata), Red Bloodwood (C. gummifera), Mugga Ironbark (E. sideroxylon), and White Box (E. albens). Commonly used lerp infested trees include Inland Grey Box (E. microcarpa), Grey Box (E. moluccana) and Blackbutt (E. pilularis).</p>	2019 (17)	Low	The species has specific habitat requirements that are not present in the study area.
					PMST		
Turquoise Parrot	<i>Neophema pulchella</i>	Vulnerable		<p>The Turquoise Parrot's range extends from southern Queensland through to northern Victoria, from the coastal plains to the western slopes of the Great Dividing Range. The species lives on the edges of eucalypt woodland adjoining clearings, timbered ridges and creeks in farmland.</p>	2016 (1)	Low	The species has specific habitat requirements that are not present in the study area.
Varied Sittella	<i>Daphoenositta chrysoptera</i>	Vulnerable		<p>The Varied Sittella is sedentary and inhabits most of mainland Australia except the treeless deserts and open grasslands. Distribution in NSW is nearly continuous from the coast to the far west. The Varied Sittella's population size in NSW is uncertain but is believed to have undergone a moderate reduction over the past several decades. The species inhabits eucalypt forests and woodlands, especially those containing rough-barked species and mature smooth-barked gums with dead branches, Mallee and Acacia woodland.</p>	2018 (4)	Low	The species has specific habitat requirements that are not present in the study area.



Wandering Albatross	<i>Diomedea exulans</i>	Endangered	Endangered	The Wandering Albatross visits Australian waters extending from Fremantle, Western Australia, across the southern water to the Whitsunday Islands in Queensland between June and Spetember. It has been recorded along the length of the NSW coast. At other times birds roam the southern oceans and commonly follow fishing vessels for several days.	2008 (10)	Low	The species has specific habitat requirements that are not present in the study area.
					PMST		
Wandering Tattler	<i>Tringa incana</i>		Migratory	Uncommon summer migrant to Australia. Prefers coral islands, rock platforms, occasionally to other tidal areas.	1980 (1)	Low	The species has historically (>20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present.
Wedge-tailed Shearwater	<i>Ardenna pacifica</i>		Migratory	Common breeding and non-breeding visitor to coastal and pelagic waters off the east and west coasts of Australia, vagrants to north and south Australian waters. Breeds on vegetated islands, atolls and cays and nests in rock crevices or burrows.	2019 (27)	Low	The species has specific habitat requirements that are not present in the study area.

Whimbrel	<i>Numenius phaeopus</i>		Migratory	Occurs in intertidal mudflats of sheltered coasts. Also in estuaries, mangroves, coral clays and exposed reefs. Roosts in trees and mangroves.	1983 (1)  PMST	Low	The species has historically (>20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present.
White-bellied Sea-Eagle	<i>Haliaeetus leucogaster</i>	Vulnerable		The White-bellied Sea-eagle is distributed around the Australian coastline, including Tasmania, and well inland along rivers and wetlands of the Murray Darling Basin. In NSW, it is widespread along the east coast, and along all major inland rivers and waterways. Habitats are characterised by the presence of large areas of open water including larger rivers, swamps and lakes, as well as the ocean. The species occurs at sites near the sea or sea-shore, or in the vicinity of freshwater swamps, lakes, reservoirs, billabongs and saltmarshes. Terrestrial habitats include coastal dunes, tidal flats, grassland, heathland, woodland and forests (including rainforest). Breeding habitat consists of mature tall open forest, open forest, tall woodland, and swamp sclerophyll forest close to foraging habitat. Nest trees are typically large emergent eucalypts and often have dead emergent branches or large dead trees nearby which are used as guard roosts.	2020 (121)	Low	The species has specific habitat requirements that are not present in the study area.
White-bellied Storm-Petrel	<i>Fregetta grallaria</i>	Vulnerable	Vulnerable	The White-bellied Storm-Petrel has a wide distribution in the south Pacific and Atlantic Oceans, they are known to breed at various island groups although in Australia breeds only on offshore islands in the Lord Howe Island group. Nests are a chamber usually located amongst large rocks.	PMST	Low	The species has specific habitat requirements that are not present in the study area.
White-capped Albatross	<i>Thalassarche steadi</i>		Vulnerable, Migratory	The White-capped Albatross is probably common off the coast of south-east Australia throughout the year. It has been observed that juveniles are rare in New Zealand waters, being more common off south-east Australia and South Africa. Breeding colonies occur on islands south of New Zealand.	PMST	Low	The species has not been recorded previously within 10 kilometres of the study area
White-fronted Chat population in the Sydney Metropolitan Catchment Management Area	<i>Epthianura albifrons</i>	Vulnerable		In NSW, it occurs mostly in the southern half of the state, in damp open habitats along the coast, and near waterways in the western part of the state. Along the coastline, it is found predominantly in saltmarsh vegetation but also in open grasslands and sometimes in low shrubs bordering wetland areas.	1983 (2)	Low	The species has historically (>20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present

White-tailed Tropicbird	<i>Phaethon lepturus</i>		Migratory	A marine pelagic species which only returns to land based colonies to breed. A vagrant visitor to Australia.	1988 (2)  PMST	Low	The species has historically (>20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present.
White-throated Needletail	<i>Hirundapus caudacutus</i>		Migratory	In eastern Australia, it is recorded in all coastal regions of Queensland and NSW, extending inland to the western slopes of the Great Divide and occasionally onto the adjacent inland plains. Although they occur over most types of habitat, they are probably recorded most often above wooded areas, including open forest and rainforest, and may also fly between trees or in clearings, below the canopy, but they are less commonly recorded flying above woodland (Higgins 1999). They also commonly occur over heathland (Cooper 1971; Learmonth 1951; McFarland 1988), but less often over treeless areas, such as grassland or swamps (Cooper 1971; Gosper 1981; Learmonth 1951).	2020 (45)  PMST	Low	The species has specific habitat requirements that are not present in the study area.
Yellow Wagtail	<i>Motacilla flava</i>		Migratory	Regular spring-summer visitor in north of Australia, rare vagrant or occasional visitor farther south. Found in marshes, damp paddocks, airfields, cultivated fields, lawns and estuaries.	2003 (1)  PMST	Low	The species has specific habitat requirements that are not present in the study area.

Yellow-bellied Glider	<i>Petaurus australis</i>	Vulnerable		The Yellow-bellied Glider is found along the eastern coast to the western slopes of the Great Dividing Range, from southern Queensland to Victoria. The species occurs in tall mature eucalypt forest generally in areas with high rainfall and nutrient rich soils. Forest type preferences vary with latitude and elevation; mixed coastal forests to dry escarpment forests in the north; moist coastal gullies and creek flats to tall montane forests in the south.	1999 (1)	Low	The species has historically (>20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present.
Yellow-bellied Sheathtail-bat	<i>Saccolaimus flaviventris</i>	Vulnerable		The Yellow-bellied Sheathtail-bat is a wide-ranging species found across northern and eastern Australia. In the most southerly part of its range (most of Victoria, south-western NSW and adjacent South Australia) it is a rare visitor in late summer and autumn. There are scattered records of this species across the New England Tablelands and North West Slopes. The species roosts in tree hollows and buildings. In treeless areas, they are known to utilise mammal burrows.	2021 (15)	Moderate	The species has not been recorded previously within 10 kilometres of the study area



<i>Allocasuarina portuensis</i>	Nielsen Park She-oak	Endangered	Endangered	<p>The original habitat is tall, closed woodland. Canopy species include: <i>Ficus rubiginosa</i>, <i>Angophora costata</i>, <i>Elaeocarpus reticulatus</i> and <i>Gloichidion ferdinandi</i> with a shrub layer of <i>Pittosporum revolutum</i>, <i>Kunzea ambigua</i> and <i>Monotoca elliptica</i>. The original habitat occurs above a sandstone shelf approximately 20 metres above the harbour. The shallow sandy soils are highly siliceous, coarsely textured and devoid of a soil profile. The plantings have occurred on similar soils. Flowering occurs throughout the winter months (April-August), though many of the in situ plantings have also been observed to flower during January and March. The species is probably wind pollinated. Species in the Casuarinaceae are generally obligate seed regenerators. Most species are killed by fire, although some species can resprout. It is most conservative to assume that it is killed by fire unless otherwise shown. Reproductive success is dependent on the availability of pollen. Life span is greater than 10 years, and possibly up to 30 years.</p>	2019 (76)	Low	The species has specific habitat requirements that are not present in the proposalproposalsite
<i>Amperea xiphoclada</i> var. <i>pedicellata</i>		Extinct	Extinct	<i>Amperea xiphoclada</i> var. <i>pedicellata</i> was previously widespread in heath, woodland and forest in low-fertility, sandy soils.	No date (1)	Low	The species is considered extinct.
<i>Asterolasia buxifolia</i>		Endangered		Rediscovered in 2000, little is known about the species. The growth rate appears to be very slow, and the flowering season short. Apparently restricted to the riparian zone of a granitic rocky section of the Lett River.	2008 (1)	Low	The study area is beyond the current known geographic range of the species.
<i>Asterolasia elegans</i>		Endangered	Endangered	<p>Occurs on Hawkesbury sandstone. Found in sheltered forests on mid- to lower slopes and valleys, e.g. in or adjacent to gullies which support sheltered forest. The canopy at known sites includes Turpentine (<i>Syncarpia glomulifera</i> subsp. <i>glomulifera</i>), Smooth-barked Apple (<i>Angophora costata</i>), Sydney Peppermint (<i>Eucalyptus piperita</i>), Forest Oak (<i>Allocasuarina torulosa</i>) and Christmas Bush (<i>Ceratopetalum gummiferum</i>). Ecological knowledge about this species is very limited. The species is considered to be fire sensitive and reliant on seed germination after disturbance to maintain populations. A soil seedbank appears to be established by this species, so for a number of years following fire or other disturbance the species may not be apparent, but be present only as seed in the soil. The size of the seedbank depends not only on the amount of seed contributed by mature plants each season, but on the level of dormancy of the seed which can vary from year to year. The longevity of each crop of seed in the soil is probably relatively short (perhaps 5 - 10 years). Either heat or smoke or a combination of these factors may play a role in breaking soil-stored seed dormancy. Both the amount of smoke and the level of heating could influence germination success. A certain level of heat may be optimal for breaking seed dormancy (such that too</p>	PMST	Low	The species is considered extinct.

<i>Caladenia tessellata</i>	Thick Lip Spider Orchid	Endangered	Vulnerable	Generally found in grassy sclerophyll woodland on clay loam or sandy soils, though the population near Braidwood is in low woodland with stony soil. The single leaf regrows each year. Flowers appear between September and November (but apparently generally late September or early October in extant southern populations).	2008 (8)	Low	The study area is beyond the current known geographic range of the species.
					PMST		
<i>Callistemon linearifolius</i>	Netted Bottle Brush	Vulnerable		Grows in dry sclerophyll forest on the coast and adjacent ranges. Flowers spring – summer.	2020 (14)	Low	The study area is beyond the current known geographic range of the species.
<i>Chamaesyce psammogeton</i>	Sand Spurge	Endangered		Grows on fore-dunes, pebbly strandlines and exposed headlands, often with Spinifex ( <i>Spinifex sericeus</i> ) and Prickly Couch ( <i>Zoysia macrantha</i> ) Flowering recorded in spring and summer. Sand Spurge seeds float, so some dispersal between beaches may occur. Longevity of the species is approximately 5 – 30 years with a primary juvenile period of less than one year. Plant growth occurs in spring and summer.	2002 (3)	Low	The study area is beyond the current known geographic range of the species.
<i>Cryptostylis hunteriana</i>	Leafless Tongue Orchid	Vulnerable	Vulnerable	Does not appear to have well defined habitat preferences and is known from a range of communities, including swamp-heath and woodland. The larger populations typically occur in woodland dominated by Scribbly Gum ( <i>Eucalyptus sclerophylla</i> ), Silvertop Ash ( <i>E. sieberi</i> ), Red Bloodwood ( <i>Corymbia gummifera</i> ) and Black Sheoak ( <i>Allocasuarina littoralis</i> ); appears to prefer open areas in the understorey of this community and is often found in association with the Large Tongue Orchid ( <i>C. subulata</i> ) and the Tartan Tongue Orchid ( <i>C. erecta</i> ). Little is known about the ecology of the species; being leafless it is expected to have limited photosynthetic capability and probably depends upon a fungal associate to meet its nutritional requirements from either living or dead organic material. In addition to reproducing from seed, it is also capable of vegetative reproduction and thus forms colonies which can become more or less permanent at a site. On the Central Coast of NSW, populations have been recorded in woodland dominated by Scribbly Gum ( <i>Eucalyptus haemastoma</i> ), Brown Stringybark ( <i>Eucalyptus capitellata</i> ), Red Bloodwood ( <i>Corymbia gummifera</i> ) and also associated with Large Tongue Orchid ( <i>C. subulata</i> ) and the Tartan Tongue Orchid ( <i>C. erecta</i> ).	PMST	Low	The species has specific habitat requirements that are not present in the study area.



<i>Darwinia biflora</i>		Vulnerable	Vulnerable	Occurs on the edges of weathered shale-capped ridges, where these intergrade with Hawkesbury Sandstone. Associated overstorey species include <i>Eucalyptus haemastoma</i> , <i>Corymbia gummifera</i> and/or <i>E. squamosa</i> . The vegetation structure is usually woodland, open forest or scrub-heath. Longevity is thought to be 15-20 years. Flowering occurs throughout the year but is concentrated in autumn, with mature fruits being produced from May to August. Self-pollination is the usual form of pollination. Flowers and fruit are produced 18 months after germination, though at this stage few reach maturity. Maturation rates are higher for plants older than five years. Seed viability is high (up to 99%). Fire is an important factor in the life cycle of this species. Fire kills all plants, but also produces a flush of germination from seed stored in the soil. The number of individuals at a site then declines with time since fire, as the surrounding vegetation develops.	2020 (168)	Low	The study area is beyond the current known geographic range of the species.
					PMST		
<i>Deyeuxia appressa</i>		Endangered	Endangered	Given that <i>D. appressa</i> hasn't been seen in over 60 years, almost nothing is known of the species' habitat and ecology. Flowers spring to summer and is mesophytic (grows in moist conditions).	PMST	Low	The species has specific habitat requirements that are not present in the study area.
<i>Dichanthium setosum</i>	Bluegrass	Vulnerable	Vulnerable	Flowering time is mostly in summer. Associated with heavy basaltic black soils and red-brown loams with clay subsoil. Often found in moderately disturbed areas such as cleared woodland, grassy roadside remnants and highly disturbed pasture. (Often collected from disturbed open grassy woodlands on the northern tablelands, where the habitat has been variously grazed, nutrient-enriched and water-enriched). It is open to question whether the species tolerates or is promoted by a certain amount of disturbance, or whether this is indicative of the threatening processes behind its depleted habitat. Associated species include <i>Eucalyptus albens</i> , <i>Eucalyptus melanophloia</i> , <i>Eucalyptus melliodora</i> , <i>Eucalyptus viminalis</i> , <i>Myoporum debile</i> , <i>Aristida ramosa</i> , <i>Themeda triandra</i> , <i>Poa sieberiana</i> , <i>Bothriochloa ambigua</i> , <i>Medicago minima</i> , <i>Leptorhynchos squamatus</i> , <i>Lomandra aff. longifolia</i> , <i>Ajuga australis</i> , <i>Calotis hispidula</i> and <i>Austrodanthonia</i> , <i>Dichopogon</i> , <i>Brachyscome</i> , <i>Vittadinia</i> , <i>Wahlenbergia</i> and <i>Psoralea</i> species. Locally common or found as scattered clumps in broader populations. The extensive distribution and wide environmental tolerances make predictions about suitable habitat difficult.	1913 (1)	Low	The species has not been recorded previously within 10 kilometres of the study area. The study area is beyond the current known geographic range of the species.
<i>Diuris arenaria</i>	Sand Doubletail	Endangered		This species occurs in coastal heath and dry grassy eucalypt forest on sandy flats. Grows in gently undulating country in eucalypt forest with a grassy understorey on clay soil.	2001 (1)	Low	The species has specific habitat requirements that are not present in the study area.
<i>Doryanthes palmeri</i>	Giant Spear Lily	Vulnerable		Giant Spear Lily occurs on exposed rocky outcrops on infertile soils or on bare rock. It grows in a narrow band of vegetation along the cliff-tops and on steep cliff-faces or rocky ledges in montane heath next to subtropical rainforest, warm temperate rainforest or wet eucalypt forest.	2015 (2)	Low	The species has not been recorded previously within 10 kilometres of the study area.

<i>Epacris purpurascens</i> var. <i>purpurascens</i>		Vulnerable		Found in a range of habitat types, most of which have a strong shale soil influence. Lifespan is recorded to be 5-20 years, requiring 2-4 years before seed is produced in the wild. Killed by fire and re-establishes from soil-stored seed.	2020 (32)	Low	The species has specific habitat requirements that are not present in the study area.
<i>Eucalyptus camfieldii</i>	Camfield's Stringybark	Vulnerable	Vulnerable	Poor coastal country in shallow sandy soils overlying Hawkesbury sandstone. Coastal heath mostly on exposed sandy ridges. Occurs mostly in small, scattered stands near the boundary of tall coastal heaths and low open woodland of the slightly more fertile inland areas. Associated species frequently include stunted species of <i>E. oblonga</i> Narrow-leaved Stringybark, <i>E. capitellata</i> Brown Stringybark and <i>E. haemastoma</i> Scribbly Gum. Population sizes are difficult to estimate because its extensive lignotubers may be 20 m across. A number of stems arise from these lignotubers giving the impression of individual plants. Flowering period is irregular, flowers recorded throughout the year. Poor response to too frequent fires.	2017 (33)  PMST	Low	The species has not been recorded previously within 10 kilometres of the study area.
<i>Eucalyptus nicholii</i>	Narrow-leaved Black Peppermint	Vulnerable	Vulnerable	Typically grows in dry grassy woodland, on shallow soils of slopes and ridges. Found primarily on infertile soils derived from granite or metasedimentary rock. Seedling recruitment is common, even in disturbed soils, if protected from grazing and fire. Tends to grow on lower slopes in the landscape.	2008 (10)	Low	The species has historically (>20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present.
<i>Eucalyptus pulverulenta</i>	Silver-leaved Gum	Vulnerable	Vulnerable	Grows in shallow soils as an understorey plant in open forest, typically dominated by Brittle Gum ( <i>Eucalyptus mannifera</i> ), Red Stringybark ( <i>E. macrorhynca</i> ), Broad-leaved Peppermint ( <i>E. dives</i> ), Silvertop Ash ( <i>E. sieberi</i> ) and Apple Box ( <i>E. bridgesiana</i> ).	1960 (1)	Low	The species has specific habitat requirements that are not present in the study area.
<i>Eucalyptus scoparia</i>	Wallangarra White Gum	Endangered	Vulnerable	Found in open eucalypt forest, woodland and heaths on well-drained granite/rhyolite hilltops, slopes and rocky outcrops, typically at high altitudes. At lower elevations can occur in less rocky soils in damp situations.	2003 (3)	Low	The species has specific habitat requirements that are not present in the study area.
<i>Genoplesium baueri</i>	Bauer's Midge Orchid	Endangered	Endangered	Grows in dry sclerophyll forest and moss gardens over sandstone. Flowers February to March.	1918 (9)  PMST	Low	The species has specific habitat requirements that are not present in the study area.
<i>Grammitis stenophylla</i>	Narrow-leaf Finger Fern	Endangered		Moist places, usually near streams, on rocks or in trees, in rainforest and moist eucalypt forest.	No date (1)	Low	The species has specific habitat requirements that are not present in the study area.

<i>Grevillea caleyi</i>	Caley's Grevillea	Critically Endangered	Critically Endangered	<p>All natural remnant sites occur within a habitat that is both characteristic and consistent between sites. All sites occur on the ridgetop between elevations of 170 to 240 metres above sea level, in association with laterite soils and a vegetation community of open forest, generally dominated by <i>Eucalyptus sieberi</i> and <i>E. gummifera</i>. Commonly found in the endangered Duffys Forest ecological community. Killed by fire and relies entirely on seed that is stored in the soil for regeneration. Generally seedlings do not flower and produce seed before 2-5 years of age. Flowering is sporadic throughout the year, but with a definite spring pulse. Fecundity is low with only about three per cent of flowers result in seed. Seed dispersal is low and predation is high, therefore it is estimated that 8-12 years is required to develop a sufficient seedbank to replace a population. Seed dormancy mechanisms are not fully understood; however it is thought that smoke and perhaps heat may play a role in breaking dormancy. Pollination is by birds although it is thought that this species may be self-compatible.</p>	No date (6)	Low	The species has specific habitat requirements that are not present in the study area.
				PMST			
<i>Haloragode ndron lucasii</i>		Endangered	Endangered	<p>Associated with dry sclerophyll forest. Reported to grow in moist sandy loam soils in sheltered aspects, and on gentle slopes below cliff-lines near creeks in low open woodland. Associated with high soil moisture and relatively high soil-phosphorus levels. Highly clonal, which implies the true population size may be considerably smaller than expected. Flowering occurs from August to November with fruits appearing from October to December. Has demonstrated an ability to resprout from its rootstock.</p>	PMST	Low	The species has historically (>20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present.
<i>Hibbertia puberula</i>		Endangered		<p>Flowering time is October to December, sometimes into January. Occurs on sandy soil often associated with sandstone, or on clay. Habitats are typically dry sclerophyll woodland communities, although heaths are also occupied. One of the recently (2012) described subspecies also favours upland swamps.</p>	1954 (1)	Low	The species has specific habitat requirements that are not present in the study area.
<i>Hibbertia spanantha</i>	Julian's Hibbertia	Critically Endangered	Critically Endangered	<p>Grows in forest with canopy species including <i>Eucalyptus pilularis</i>, <i>E. resinifera</i>, <i>Corymbia gummifera</i> and <i>Angophora costata</i>. The understorey is open with species of Poaceae, Orchidaceae, Fabaceae and Liliaceae. Flowering in October and November, but with an odd flower throughout the year. The soil is identified as a light clay occurring on a shale sandstone soil transition.</p>	2018 (2)	Low	The species has specific habitat requirements that are not present in the study area. The species has historically (>20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present.

<i>Hibbertia superans</i>		Endangered		Flowering time is July to December. The species occurs on sandstone ridgetops often near the shale/sandstone boundary. Occurs in both open woodland and heathland, and appears to prefer open disturbed areas, such as tracksides. The fruit is dehiscent and the seed has a fleshy aril which attracts ants and encourages them to disperse the seeds. The soil seedbank is persistent. Highly sensitive to both frequent and infrequent fire and other disturbance regimes. The recommended minimum fire interval is unknown, however the recommended maximum fire interval is 25 years. An obligate seeder, it is usually killed by fire, sometimes resprouting from the base. Flowers first appear from resprouting material about two years after fire.	2008 (1)	Low	The species has specific habitat requirements that are not present in the study area. The species has historically (>20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present.
<i>Lasiopetalum joyceae</i>		Vulnerable	Vulnerable	Grows in heath on sandstone.	2005 (1)  PMST	Low	The species has specific habitat requirements that are not present in the proposal site.
<i>Leptospermum deanei</i>		Vulnerable	Vulnerable	Woodland on lower hill slopes or near creeks. Sandy alluvial soil or sand over sandstone. Occurs in Riparian Scrub - e.g. <i>Tristaniopsis laurina</i> , <i>Baechea myrtifolia</i> ; Woodland - e.g. <i>Eucalyptus haemstoma</i> ; and Open Forest - e.g. <i>Angophora costata</i> , <i>Leptospermum trinervium</i> , <i>Banksia ericifolia</i> . Flowers October-November. Probably killed by fire.	No date (2)  PMST	Low	The species has historically (>20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present.
<i>Macadamia integrifolia</i>	Macadamia Nut		Vulnerable	Not known to occur naturally in the wild in NSW.	2015 (5)	Low	The study area is beyond the current known geographic range of the species.
<i>Macadamia tetraphylla</i>	Rough-shelled Bush Nut	Vulnerable	Vulnerable	Found in subtropical rainforest, usually near the coast.	2001 (1)	Low	The study area is beyond the current known geographic range of the species.
<i>Melaleuca biconvexa</i>	Biconvex Paperbark	Vulnerable	Vulnerable	Biconvex Paperbark generally grows in damp places, often near streams or low-lying areas on alluvial soils of low slopes or sheltered aspects. Flowering occurs over just 3-4 weeks in September and October. Resprouts following fire.	2002 (2)	Low	The species has historically (>20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present.
<i>Melaleuca deanei</i>	Deane's Paperbark	Vulnerable	Vulnerable	The species occurs mostly in ridgetop woodland, with only five per cent of sites in heath on sandstone. Flowers appear in summer, but seed production appears to be small and consequently the species exhibits a limited capacity to regenerate.	2017 (19)	Low	The species has specific habitat requirements that are not present in the study area.

<i>Microtis angustii</i>	Angus's Onion Orchid	Endangered	Endangered	<p>It is not easy to define the preferred natural habitat of this orchid as the Ingleside location is highly disturbed. The dominant species occurring on the site are introduced weeds <i>Hyparrhenia hirta</i> (Coolatai grass) and <i>Acacia saligna</i>. The Ingleside population occurs on soils that have been modified but were originally those of the restricted ridgetop lateritic soils in the Duffys Forest - Terrey Hills - Ingleside and Belrose areas. These soils support a specific and distinct vegetation type, the Duffys Forest Vegetation Community which is listed as an endangered ecological community under the TSC Act and ranges from open forest to low open forest and rarely woodland. Exists as subterranean tubers during most of the year. Produces leaves and then flowering stems in late winter and spring and flowers from May to October. By summer, the above ground parts have withered leaving no parts above ground. Most <i>Microtis</i> species reproduce vegetatively by the formation of "daughter" tubers from the main tuber.</p>	2002 (1)	Low	The study area is beyond the current known geographic range of the species
<i>Persicaria elatior</i>	Tall Knotweed	Vulnerable	Vulnerable	<p>This species normally grows in damp places, especially beside streams and lakes. Occasionally in swamp forest or associated with disturbance.</p>	PMST	Low	The study area is beyond the current known geographic range of the species
<i>Persoonia hirsuta</i>	Hairy Geebung	Endangered	Endangered	<p>The Hairy Geebung is found in clayey and sandy soils in dry sclerophyll open forest, woodland and heath, primarily on the Mittagong Formation and on the upper Hawkesbury Sandstone. It is usually present as isolated individuals or very small populations. Plants are generally killed by all but the lowest intensity fire or partial burning. Fire may promote germination of soil-stored seed, although it may also kill some of the seedbank if it is of high severity. Extreme wet-dry weather cycles may also promote germination of soil-stored seed.</p>	2008 (13)	Low	The study area is beyond the current known geographic range of the species
					PMST		

<i>Pimelea curviflora</i> var. <i>curviflora</i>		Vulnerable	Vulnerable	Occurs on shaley/lateritic soils over sandstone and shale/sandstone transition soils on ridgetops and upper slopes amongst woodlands. Also recorded in Illawarra Lowland Grassy Woodland habitat at Albion Park on the Illawarra coastal plain. Flowers October to May. Has an inconspicuous cryptic habit as it is fine and scraggly and often grows amongst dense grasses and sedges. It may not always be visible at a site as it appears to survive for some time without any foliage after fire or grazing, relying on energy reserves in its tuberous roots. Likely to be fire tolerant species capable of resprouting following fire due to the presence of a tap root. Seedlings have been observed following fire.	2021 (19)	Low	The species has historically (>20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present.
					PMST		
<i>Prasophyllum fuscum</i>	Slaty Leek Orchid	E4A,P,2	Vulnerable	Grows in moist heath, often along seepage lines. The known population grows in moist sandy soil over sandstone amongst sedges and grasses in an area that appears to be regularly slashed by the local council. Flowering does not necessarily occur every year, often skipping years. Although successful flowering and reproduction is likely to be dependent on favourable weather and habitat conditions, the factors which influence flowering behaviour are poorly understood. The seed is dust-like and is wind dispersed. Dies back after the flowering and fruiting phases and exist only as a dormant tuber for much of the year. Like most terrestrial orchids, the species is believed to be semi or fully dependent on a mycorrhizal symbiont. Dormant over summer and leaves emerge around April and flowering occurs from September to December. The response of this species to fire is unknown, however fire stimulation of flowering is common within the genus. Reproduction is by means of seed and probably to a lesser extent by vegetative reproduction. Flowers are not self-pollinating, as not all set seed and the perfume suggests an insect pollinator. The pollinator is unknown, but related species seem to be pollinated by a variety of thynnid wasps and perhaps hoverflies. It can be assumed that there is more than one pollinator species. The mature seeds senesce after	2008 (1)	Low	The species has specific habitat requirements that are not present in the study area.

<i>Prostanthera marifolia</i>	Seaforth Mintbush	Critically Endangered	Critically Endangered	Occurs in localised patches in or in close proximity to the endangered Duffys Forest ecological community. Located on deeply weathered clay-loam soils associated with ironstone and scattered shale lenses, a soil type which only occurs on ridge tops and has been extensively urbanised.	2016 (179)  PMST	Low	The species has specific habitat requirements that are not present in the study area. The species has not been recorded previously within 10 kilometres of the study area.
<i>Rhodamnia rubescens</i>	Scrub Turpentine	Critically Endangered	Critically Endangered	Found in littoral, warm temperate and subtropical rainforest and wet sclerophyll forest usually on volcanic and sedimentary soils. This species is characterised as highly to extremely susceptible to infection by Myrtle Rust. Myrtle Rust affects all plant parts.	2002 (3)  PMST	Low	The species has specific habitat requirements that are not present in the study area.
<i>Rhodomyrtus psidioides</i>	Native Guava	Critically Endangered	Critically Endangered	Pioneer species found in littoral, warm temperate and subtropical rainforest and wet sclerophyll forest often near creeks and drainage lines. This species is characterised being extremely susceptible to infection by Myrtle Rust. Myrtle Rust affects all plant parts.	PMST	Low	The species has not been recorded previously within 10 kilometres of the study area.
<i>Sarcophilus hartmannii</i>	Hartman's Sarcophilus	Vulnerable	Vulnerable	Favours cliff faces on steep narrow ridges supporting eucalypt forest and clefts in volcanic rock from 500 metres to 1,000 metres in altitude. Also found occasionally at the bases of fibrous trunks of trees, including cycads and grass-trees.	1940 (1)	Low	The species has specific habitat requirements that are not present in the study area.

<i>Syzygium paniculatum</i>	Magenta Lilly Pilly	Endangered	Vulnerable	On the south coast the Magenta Lilly Pilly occurs on grey soils over sandstone, restricted mainly to remnant stands of littoral (coastal) rainforest. On the central coast Magenta Lilly Pilly occurs on gravels, sands, silts and clays in riverside gallery rainforests and remnant littoral rainforest communities.	2021 (157)	Low	The species has not been recorded previously within 10 kilometres of the study area.
					PMST		
<i>Tetradlea glandulosa</i>		Vulnerable		Associated with shale-sandstone transition habitat where shale-cappings occur over sandstone, with associated soil landscapes such as Lucas Heights, Gynea, Lambert and Faulconbridge. Topographically, the plant occupies ridgetops, upper-slopes and to a lesser extent mid-slope sandstone benches. Soils are generally shallow, consisting of a yellow, clayey/sandy loam. Stony lateritic fragments are also common in the soil profile on many of these ridgetops. Vegetation structure varies from heaths and scrub to woodlands/open woodlands, and open forest. Vegetation communities correspond broadly to Benson & Howell's Sydney Sandstone Ridgetop Woodland (Map Unit 10ar). Common woodland tree species include: <i>Corymbia gummifera</i> , <i>C. eximia</i> , <i>Eucalyptus haemastoma</i> , <i>E. punctata</i> , <i>E. racemosa</i> , and/or <i>E. sparsifolia</i> , with an understorey dominated by species from the families Proteaceae, Fabaceae, and Epacridaceae. Flowers July-November however residual flowers may persist until late December. Flowering influenced by seasonal weather conditions and/or the microclimate effects (eg. exposure) of each particular site. The age of individual plants is difficult to determine and the life span of the plant is unknown. Life expectancy is approximately six to ten years, however, based on field investigations which indicate that the	2012 (23)	Low	The study area is beyond the current known geographic range of the species.



<i>Tetradlea juncea</i>	Black-eyed Susan	Vulnerable	Vulnerable	<p>It is usually found in low open forest/woodland with a mixed shrub understorey and grassy groundcover. However, it has also been recorded in heathland and moist forest. The majority of populations occur on low nutrient soils associated with the Awaba Soil Landscape. While some studies show the species has a preference for cooler southerly aspects, it has been found on slopes with a variety of aspects. It generally prefers well-drained sites below 200 metres elevation and annual rainfall between 1000 - 1200 millimetres. The preferred substrates are sandy skeletal soil on sandstone, sandy-loam soils, low nutrients; and clayey soil from conglomerates, pH neutral. It usually spreads via underground stems which can be up to 50 centimetres long. Consequently, individual plants may be difficult to identify. It also reproduces sexually but this requires insect pollination. Large populations of this species are particularly important.</p>	2008 (9)	Low	The species has not been recorded previously within 10 kilometres of the study area.
<i>Thesium australe</i>	Austral Toadflax	Vulnerable	Vulnerable	<p>Occurs in grassland on coastal headlands or grassland and grassy woodland away from the coast. Often found in association with Kangaroo Grass (<i>Themeda australis</i>). A root parasite that takes water and some nutrient from other plants, especially Kangaroo Grass.</p>	PMST	Low	The species has specific habitat requirements that are not present in the study area.
<i>Triplarina imbricata</i>	Creek Triplarina	Endangered	Endangered	<p>Occurs along watercourses in low open forest with Water Gum (<i>Tristanopsis laurina</i>) or in montane bogs, often with <i>Baekea amissa</i>.</p>	2008 (1)	Low	The species has not been recorded previously within 10 kilometres of the study area.
<i>Wilsonia backhousei</i>	Narrow-leaved Wilsonia	Vulnerable		<p>This is a species of the margins of salt marshes and lakes. Flowering occurs in spring and summer.</p>	2021 (2)	Low	The species has historically (>20 years ago) been recorded within 10 kilometres of the study area, and suitable habitat is no longer present.

# Assessments of Significance

## BC Act Tests of Significance

Tests of significance have been prepared for all threatened species or ecological communities considered to have a moderate to high likelihood of occurrence in the project area. Tests have been prepared in accordance with the *Threatened Species Test of Significance Guidelines* (OEH, 2018) and address the following five factors as required by section 7.3 of the BC Act:

- a) *in the case of a threatened species, whether the proposed development or activity is likely to have an adverse effect on the life cycle of the species such that a viable local population of the species is likely to be placed at risk of extinction,*
- b) *in the case of an endangered ecological community or critically endangered ecological community, whether the proposed development or activity*
  - a. *is likely to have an adverse effect on the extent of the ecological community such that its local occurrence is likely to be placed at risk of extinction, or*
  - b. *is likely to substantially and adversely modify the composition of the ecological community such that its local occurrence is likely to be placed at risk of extinction,*
- c) *in relation to the habitat of a threatened species or ecological community—*
  - a. *the extent to which habitat is likely to be removed or modified as a result of the proposed development or activity, and*
  - b. *whether an area of habitat is likely to become fragmented or isolated from other areas of habitat as a result of the proposed development or activity, and*
  - c. *the importance of the habitat to be removed, modified, fragmented or isolated to the long-term survival of the species or ecological community in the locality,*
- d) *whether the proposed development or activity is likely to have an adverse effect on any declared area of outstanding biodiversity value (either directly or indirectly),*
- e) *whether the proposed development or activity is or is part of a key threatening process or is likely to increase the impact of a key threatening process.*

Habitat loss resulting from removal of up to seven non-native trees and pruning of one Chinese Elm and one Moreton Bay Fig within Bradfield Park is anticipated to be the primary impact of the project on threatened fauna. No threatened fauna species were identified during surveys; however two threatened fauna species listed under the BC Act were identified as having a moderate or higher likelihood of occurring on the project site based on habitat suitability and previous records. Impacts of the project on these threatened fauna species have been assessed using tests of significance (Section 7.3 of the Biodiversity Conservation Act 2016) and are presented below.

Factor	Species: Grey-headed Flying-fox ( <i>Pteropus poliocephalus</i> ) (BC Act: V)
Species information	<p>Grey-headed Flying-fox disperse nocturnally from daytime camps, where hundreds or thousands of flying foxes gather to roost in colonies. These camps are also where the species breed and creche young. Grey-headed Flying-fox forage mainly on flowering Eucalyptus, Melaleuca and Banksia, and fruits of rainforest trees and vines. Grey-headed Flying-fox have a feeding range of approximately 20-50 kilometres, and adults migrate during winter up to 750 kilometres from their summer camps. Grey-headed Flying-fox have been recorded in high numbers within 10 kilometres of the project site, with about three camps being located within a 10 kilometre radius of the project site. No camps are located within the project site.</p>
Proposed impacts	<p>The project would remove five Simon's Poplars, one ornamental pear, one Canary Island Date Palm, and involve trimming of two Chinese Elms and one Moreton Bay Fig within Bradfield Park. The construction phase of the project would involve out of hours works and earthworks at the project site.</p>
a) Likelihood of an adverse effect on the life cycle of a threatened species such that a viable local population is likely to be placed at risk of extinction	<p>The project would remove up to seven trees within Bradfield Park North. One of which constitute foraging habitat for the species (Canary Island Date Palm). The removal of one potential foraging tree would not affect the life cycle of local Grey-headed Flying-fox populations such that the local population is placed at risk of extinction.</p>
b) Likelihood of an adverse effect on the extent or composition of an endangered or critically endangered ecological community such that its local occurrence is likely to be placed at risk of extinction	<p>Not applicable.</p>
<p>c) In relation to habitat of a threatened species or community:</p> <ul style="list-style-type: none"> <li>i. extent to which habitat is likely to be removed or modified</li> <li>ii. whether an area of habitat is likely to become fragmented or isolated from other areas of habitat</li> <li>iii. importance of the habitat to be removed, modified, fragmented or isolated to the long-term survival of the species or ecological community</li> </ul>	<p>(i) The project would remove five Simon's Poplars, one ornamental pear, one Canary Island Date Palm, and involve trimming of two Chinese Elms and one Moreton Bay Fig .</p> <p>(ii) The habitat to be removed is part of a landscaped public park which is already highly fragmented from nearby habitat due to the location of the project site near the Sydney and North Sydney CBD's. Grey-headed Flying-foxes are highly mobile with large foraging ranges, therefore the project is unlikely to further isolate or fragment existing habitat such that the species dispersal ability is impacted.</p> <p>(iii) The trees to be removed do not comprise habitat that is considered important to the long-term survival of Grey-headed Flying-fox in the locality.</p>
d) Likelihood of an adverse effect on any declared area of outstanding biodiversity value (either directly or indirectly)	<p>A review of the Register of Declared Areas of Outstanding Biodiversity Value (AOBV) found that no AOBV have been declared for Grey-headed Flying-fox.</p>
e) Whether the project is or is part of a key threatening process or is likely to increase the impact of a key threatening process	<p>Of the key threatening processes listed in BC Act, none are relevant to the potential impacts of the project on Grey-headed Flying-fox.</p>
<b>Conclusion</b>	<p><b>The project would require the removal of up to seven non-native trees and pruning of one non-native Chinese Elm and one Moreton Bay Fig. The removal of this vegetation is unlikely to significantly impact the species as most trees do not</b></p>

constitute foraging habitat. It would not fragment the local population, affect critical habitat or interfere with the recovery of the species. As a result, it is considered unlikely that the project represents a significant impact to this vulnerable species. A Species Impact Statement is not required for this species.

Factor	Species: <b>Powerful Owl (<i>Ninox strenua</i>) (BC Act: Vulnerable)</b>
Species information	The largest of Australia's owls, the Powerful Owl usually inhabits the moist forests of eastern Australia. Its main item of prey is possums of various species, though large bats such as flying foxes are also often caught. They roost by day, perched in the dense shade of a tree, often with the previous night's prey held in its talons; this is when Powerful Owls are seen most often. With expanding populations of possums occurring in built-up areas, Powerful Owls are increasingly being recorded in the suburbs.
Proposed impacts	The project would remove five Simon's Poplars, one ornamental pear, one Canary Island Date Palm, and involve trimming of two Chinese Elms and one Moreton Bay Fig within Bradfield Park. The construction phase of the project would involve out of hours works and earthworks at the project site.
a) Likelihood of an adverse effect on the life cycle of a threatened species such that a viable local population is likely to be placed at risk of extinction	One occurrence of Powerful Owl has historically been recorded on the project site. The species may use the site for foraging. There is no evidence of recent roosting on the site and no potential nesting habitat within Bradfield Park North. The trees to be removed comprise a very small amount of foraging habitat. The removal of up to seven non-native trees and pruning of two Chinese Elms and one Moreton Bay Fig would not impact on the life cycle of the Powerful Owl such that a local population would be likely to be placed at risk of extinction.
b) Likelihood of an adverse effect on the extent or composition of an endangered or critically endangered ecological community such that its local occurrence is likely to be placed at risk of extinction	Not applicable.
c) In relation to habitat of a threatened species or community: <ul style="list-style-type: none"> <li>i. extent to which habitat is likely to be removed or modified</li> <li>ii. whether an area of habitat is likely to become fragmented or isolated from other areas of habitat</li> <li>iii. importance of the habitat to be removed, modified, fragmented or isolated to the long-term survival of the species or ecological community</li> </ul>	<ul style="list-style-type: none"> <li>(i) The project would remove up to seven non-native trees and require pruning of one Chinese Elm and one Moreton Bay Fig.</li> <li>(ii) The habitat to be removed is part of a landscaped public park which is already highly fragmented from nearby habitat due to the location of the project site near the Sydney and North Sydney CBD's. Powerful Owl are highly mobile with large foraging ranges, therefore the project is unlikely to further isolate or fragment existing habitat such that the species dispersal ability is impacted.</li> <li>(iii) The trees to be removed do not comprise habitat that is considered important to the long-term survival of Powerful Owl in the locality.</li> </ul>
Likelihood of an adverse effect on any declared area of outstanding biodiversity value (either directly or indirectly)	A review of the Register of Declared Areas of Outstanding Biodiversity Value (AOBV) found that no AOBV have been declared for Powerful Owl.
Whether the project is or is part of a key threatening process or is likely to increase the impact of a key threatening process	Of the key threatening processes listed in BC Act, none are relevant to the potential impacts of the project on Powerful Owl.
<b>Conclusion</b>	<b>The project would require the removal of up to seven non-native trees and pruning of one non-native Chinese Elm and one Moreton Bay Fig. The removal of this vegetation is unlikely to significantly impact the species as the trees constitute a</b>

Factor	Species: Powerful Owl ( <i>Ninox strenua</i> ) (BC Act: Vulnerable)
	very small area of foraging habitat, would not fragment the local population, affect critical habitat or interfere with the recovery of the species. As a result, it is considered unlikely that the project represents a significant impact to this vulnerable species. A Species Impact Statement is not required for this species.