Appendix B Desktop search results

B1 Protected matter search tool (EPBC)



Australian Government

Department of Agriculture, Water and the Environment

EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

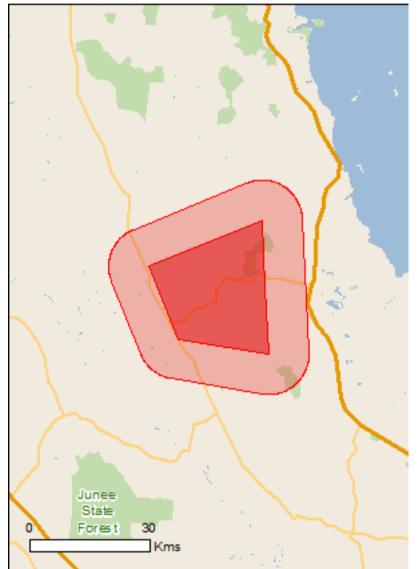
Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about Environment Assessments and the EPBC Act including significance guidelines, forms and application process details.

Report created: 22/12/21 09:42:10

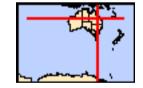
Summary Details Matters of NES Other Matters Protected by the EPBC Act **Extra Information** Caveat

Acknowledgements



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2015

Coordinates Buffer: 10.0Km



Summary

Matters of National Environmental Significance

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

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	5
Listed Threatened Species:	31
Listed Migratory Species:	17

Other Matters Protected by the EPBC Act

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

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

A <u>permit</u> 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.

Commonwealth Land:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	22
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None

Extra Information

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

State and Territory Reserves:	1
Regional Forest Agreements:	None
Invasive Species:	18
Nationally Important Wetlands:	None
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

Listed Threatened Ecological Communities

[Resource Information]

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

Name	Status	Type of Presence
Brigalow (Acacia harpophylla dominant and co- dominant)	Endangered	Community known to occur within area
Broad leaf tea-tree (Melaleuca viridiflora) woodlands in	Endangered	Community may occur
high rainfall coastal north Queensland		within area
Natural Grasslands of the Queensland Central	Endangered	Community likely to occur
Highlands and northern Fitzroy Basin		within area
Poplar Box Grassy Woodland on Alluvial Plains	Endangered	Community likely to occur within area
Semi-evergreen vine thickets of the Brigalow Belt	Endangered	Community likely to occur
(North and South) and Nandewar Bioregions		within area
Listed Threatened Species		[Resource Information]
Name	Status	Type of Presence
Birds		
Calidris ferruginea		
	Critically Endangered	Species or species habitat may occur within area
Calidris ferruginea	Critically Endangered	• •
<u>Calidris ferruginea</u> Curlew Sandpiper [856]	Critically Endangered Vulnerable	may occur within area Species or species habitat
Calidris ferruginea Curlew Sandpiper [856] Charadrius leschenaultii		may occur within area
Calidris ferruginea Curlew Sandpiper [856] Charadrius leschenaultii		may occur within area Species or species habitat
Calidris ferruginea Curlew Sandpiper [856] Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]		may occur within area Species or species habitat likely to occur within area Species or species habitat
Calidris ferruginea Curlew Sandpiper [856] Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877] Erythrotriorchis radiatus	Vulnerable	may occur within area Species or species habitat likely to occur within area
Calidris ferruginea Curlew Sandpiper [856] Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877] Erythrotriorchis radiatus	Vulnerable	may occur within area Species or species habitat likely to occur within area Species or species habitat
Calidris ferruginea Curlew Sandpiper [856] Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877] Erythrotriorchis radiatus Red Goshawk [942]	Vulnerable	may occur within area Species or species habitat likely to occur within area Species or species habitat

Geophaps scripta scripta

Squatter Pigeon (southern) [64440]	Vulnerable	Species or species habitat likely to occur within area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat may occur within area
Neochmia ruficauda ruficauda Star Finch (eastern), Star Finch (southern) [26027]	Endangered	Species or species habitat likely to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Poephila cincta cincta Southern Black-throated Finch [64447]	Endangered	Species or species

Name	Status	Type of Presence
Rostratula australis		habitat may occur within area
Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
Mammals		
Chalinolobus dwyeri		
Large-eared Pied Bat, Large Pied Bat [183]	Vulnerable	Species or species habitat likely to occur within area
<u>Dasyurus hallucatus</u> Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331]	Endangered	Species or species habitat likely to occur within area
Macroderma gigas Ghost Bat [174]	Vulnerable	Species or species habitat likely to occur within area
Nyctophilus corbeni Corben's Long-eared Bat, South-eastern Long-eared Bat [83395]	Vulnerable	Species or species habitat may occur within area
Petauroides volans Greater Glider [254]	Vulnerable	Species or species habitat likely to occur within area
Phascolarctos cinereus (combined populations of Qld,	NSW and the ACT)	
Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104]	Vulnerable	Species or species habitat known to occur within area
Pteropus poliocephalus Grey-headed Flying-fox [186]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<u>Xeromys myoides</u> Water Mouse, False Water Rat, Yirrkoo [66]	Vulnerable	Species or species habitat likely to occur within area
Plants		
Cycas ophiolitica		
[55797]	Endangered	Species or species habitat may occur within area
<u>Dichanthium queenslandicum</u> King Blue-grass [5481]	Endangered	Species or species habitat likely to occur within area
Dichanthium setosum bluegrass [14159]	Vulnerable	Species or species habitat likely to occur within area
Eucalyptus raveretiana Black Ironbox [16344]	Vulnerable	Species or species habitat likely to occur within area
<u>Marsdenia brevifolia</u> [64585]	Vulnerable	Species or species habitat may occur within area
<u>Omphalea celata</u> [64586]	Vulnerable	Species or species habitat likely to occur within area
Phaius australis Lesser Swamp-orchid [5872]	Endangered	Species or species habitat may occur within area
<u>Samadera bidwillii</u> Quassia [29708]	Vulnerable	Species or species habitat likely to occur within area

Reptiles

Name	Status	Type of Presence
Delma torquata Adorned Delma, Collared Delma [1656]	Vulnerable	Species or species habitat may occur within area
<u>Denisonia maculata</u> Ornamental Snake [1193]	Vulnerable	Species or species habitat known to occur within area
<u>Egernia rugosa</u> Yakka Skink [1420]	Vulnerable	Species or species habitat may occur within area
<u>Elseya albagula</u> Southern Snapping Turtle, White-throated Snapping Turtle [81648]	Critically Endangered	Species or species habitat likely to occur within area
Rheodytes leukops Fitzroy River Turtle, Fitzroy Tortoise, Fitzroy Turtle, White-eyed River Diver [1761]	Vulnerable	Species or species habitat known to occur within area
Listed Migratory Species * Species is listed under a different scientific name on	the EPBC Act - Threatened	[Resource Information]
Name	Threatened	Type of Presence
		•
Name		•
Name Migratory Marine Birds <u>Apus pacificus</u>		Type of Presence Species or species habitat
Name Migratory Marine Birds <u>Apus pacificus</u> Fork-tailed Swift [678]		Type of Presence Species or species habitat
Name Migratory Marine Birds Apus pacificus Fork-tailed Swift [678] Migratory Marine Species Crocodylus porosus		Type of Presence Species or species habitat likely to occur within area Species or species habitat
Name Migratory Marine Birds Apus pacificus Fork-tailed Swift [678] Migratory Marine Species Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774]		Type of Presence Species or species habitat likely to occur within area Species or species habitat
Name Migratory Marine Birds Apus pacificus Fork-tailed Swift [678] Migratory Marine Species Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774] Migratory Terrestrial Species		Type of Presence Species or species habitat likely to occur within area Species or species habitat
Name Migratory Marine Birds Apus pacificus Fork-tailed Swift [678] Migratory Marine Species Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774] Migratory Terrestrial Species Cuculus optatus		Type of Presence Species or species habitat likely to occur within area Species or species habitat likely to occur within area Species or species habitat
Name Migratory Marine Birds Apus pacificus Fork-tailed Swift [678] Migratory Marine Species Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774] Migratory Terrestrial Species Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651]		Type of Presence Species or species habitat likely to occur within area Species or species habitat likely to occur within area Species or species habitat
Name Migratory Marine Birds Apus pacificus Fork-tailed Swift [678] Migratory Marine Species Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774] Migratory Terrestrial Species Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651] Hirundapus caudacutus	Threatened	Type of PresenceSpecies or species habitat likely to occur within areaSpecies or species habitat likely to occur within areaSpecies or species habitat may occur within areaSpecies or species habitat may occur within areaSpecies or species habitat

likely to occur within area

Monarcha trivirgatus Spectacled Monarch [610]

Motacilla flava Yellow Wagtail [644]

Myiagra cyanoleuca Satin Flycatcher [612]

Rhipidura rufifrons Rufous Fantail [592]

Migratory Wetlands Species <u>Actitis hypoleucos</u> Common Sandpiper [59309]

Calidris acuminata Sharp-tailed Sandpiper [874] Species or species habitat likely to occur within area

Species or species habitat may occur within area

Species or species habitat likely to occur within area

Species or species habitat likely to occur within area

Species or species habitat may occur within area

Species or species habitat may occur within area

Name	Threatened	Type of Presence
<u>Calidris ferruginea</u> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
<u>Calidris melanotos</u> Pectoral Sandpiper [858]		Species or species habitat may occur within area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area
<u>Gallinago hardwickii</u> Latham's Snipe, Japanese Snipe [863]		Species or species habitat likely to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pandion haliaetus Osprey [952]		Species or species habitat likely to occur within area

Other Matters Protected by the EPBC Act

Listed Marine Species		[Resource Information]
* Species is listed under a different scientif	ic name on the EPBC Act - Threate	ened Species list.
Name	Threatened	Type of Presence
Birds		
Actitis hypoleucos		
Common Sandpiper [59309]		Species or species habitat may occur within area
Anseranas semipalmata		
Magpie Goose [978]		Species or species habitat may occur within area
Apus pacificus		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<u>Ardea ibis</u>		
Cattle Egret [59542]		Species or species habitat

Vulnerable

Jattle Egret [59542]

Calidris acuminata Sharp-tailed Sandpiper [874]

Calidris ferruginea Curlew Sandpiper [856]

Calidris melanotos Pectoral Sandpiper [858]

Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]

Chrysococcyx osculans Black-eared Cuckoo [705] may occur within area

Species or species habitat may occur within area

Species or species habitat Critically Endangered may occur within area

> Species or species habitat may occur within area

> Species or species habitat likely to occur within area

> Species or species habitat likely to occur within area

Name	Threatened	Type of Presence
Gallinago hardwickii		Creating or anapies habitat
Latham's Snipe, Japanese Snipe [863]		Species or species habitat likely to occur within area
<u>Haliaeetus leucogaster</u> White-bellied Sea-Eagle [943]		Species or species habitat
		known to occur within area
Hirundapus caudacutus		
White-throated Needletail [682]	Vulnerable	Species or species habitat
		may occur within area
Merops ornatus		
Rainbow Bee-eater [670]		Species or species habitat may occur within area
		may occur within area
Monarcha melanopsis Block faced Manarch [600]		Species or species babitat
Black-faced Monarch [609]		Species or species habitat likely to occur within area
Monarcha trivirgatus		
Spectacled Monarch [610]		Species or species habitat
		likely to occur within area
Motacilla flava		
Yellow Wagtail [644]		Species or species habitat
		may occur within area
Myiagra cyanoleuca		
Satin Flycatcher [612]		Species or species habitat likely to occur within area
Numerius modescossionais		-
<u>Numenius madagascariensis</u> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat
	, 3	may occur within area
Pandion haliaetus		
Osprey [952]		Species or species habitat
		likely to occur within area
Rhipidura rufifrons		2 • • • • • • •
Rufous Fantail [592]		Species or species habitat likely to occur within area
<u>Rostratula benghalensis (sensu lato)</u> Painted Snipe [889]	Endangered*	Species or species habitat

Fainted Shipe [009]

Linuariyereu

likely to occur within area

Reptiles

Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774]

Species or species habitat likely to occur within area

Extra Information

State and Territory Reserves	[Resource Information]
Name	State
Burwood	QLD

Invasive Species

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

Name	Status	Type of Presence
Birds	Status	Type of Presence
Columba livia		
Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Lonchura punctulata		
Nutmeg Mannikin [399]		Species or species habitat likely to occur within area
Passer domesticus		
House Sparrow [405]		Species or species habitat likely to occur within area
Frogs		
Rhinella marina		
Cane Toad [83218]		Species or species habitat known to occur within area
Mammals		
Canis lupus familiaris		
Domestic Dog [82654]		Species or species habitat likely to occur within area
Felis catus		
Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Feral deer		
Feral deer species in Australia [85733]		Species or species habitat likely to occur within area

Mus musculus

House Mouse [120]

Oryctolagus cuniculus Rabbit, European Rabbit [128]

Sus scrofa Pig [6]

Vulpes vulpes Red Fox, Fox [18]

Plants

Cryptostegia grandiflora Rubber Vine, Rubbervine, India Rubber Vine, India Rubbervine, Palay Rubbervine, Purple Allamanda [18913]

Hymenachne amplexicaulis

Hymenachne, Olive Hymenachne, Water Stargrass, West Indian Grass, West Indian Marsh Grass [31754] Species or species habitat likely to occur within area

[Resource Information]

Species or species habitat likely to occur within area

Species or species habitat likely to occur within area

Species or species habitat likely to occur within area

Species or species habitat likely to occur within area

Species or species habitat likely to occur within area

Name	Status	Type of Presence
Jatropha gossypifolia		
Cotton-leaved Physic-Nut, Bellyache Bush, Cotton-leat	:	Species or species habitat
Physic Nut, Cotton-leaf Jatropha, Black Physic Nut		likely to occur within area
[7507]		
Lantana camara		Charies or charies habitat
Lantana, Common Lantana, Kamara Lantana, Large- leaf Lantana, Pink Flowered Lantana, Red Flowered		Species or species habitat likely to occur within area
Lantana, Red-Flowered Sage, White Sage, Wild Sage		
[10892]		
Parkinsonia aculeata		
Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse		Species or species habitat
Bean [12301]		likely to occur within area
Parthenium hysterophorus		
Parthenium Weed, Bitter Weed, Carrot Grass, False		Species or species habitat
Ragweed [19566]		likely to occur within area
		·
Salvinia molesta		
Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba		Species or species habitat
Weed [13665]		likely to occur within area

Caveat

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

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

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

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

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

Where very little information is available for species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc). In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More reliable distribution mapping methods are used to update these distributions as time permits.

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

- migratory and
- marine

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

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

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

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

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

Coordinates

-22.237 149.359, -22.333 149.105, -22.483 149.17, -22.515 149.374, -22.237 149.359

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 Government National Environmental Scien

-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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B2. Wildlife Online (Queensland)



WildNet species list

Search Criteria:	Species List for a Specified Point
	Species: All
	Type: All
	Queensland status: All
	Records: All
	Date: All
	Latitude: -22.4294
	Longitude: 149.248
	Distance: 30
	Email: natalie.s@nghconsulting.com.au
	Date submitted: Wednesday 22 Dec 2021 13:27:03
	Date extracted: Wednesday 22 Dec 2021 13:30:11
T I I (

The number of records retrieved = 770

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for all expenses, losses, damages and costs you may incur as a result of the information being inaccurate or incomplete in any way for any reason.

Information about your Species lists request is logged for quality assurance, user support and product enhancement purposes only.

The information provided should be appropriately acknowledged as being derived from WildNet database when it is used. As the WildNet Program is still in a process of collating and vetting data, it is possible the information given is not complete. Go to the WildNet database webpage

(https://www.gld.gov.au/environment/plants-animals/species-information/wildnet) to find out more about WildNet and where to access other WildNet information products approved for publication. Feedback about WildNet species lists should be emailed to wildlife.online@des.gld.gov.au.

animals amphibans bulonidae Rhinala marina are bad Y 3 3 animals amphibans Hylidae Optorana novaehollandiae areastar prophibans Hylidae Optorana novaehollandiae areastar prophibans Hylidae Optorana novaehollandiae areastar napping frog C 1 animals amphibans Hylidae Litoria falax each areastar areastar treafrog C 1 animals amphibans Hylidae Litoria falax each areastar ar	Kingdom	Class	Family	Scientific Name	Common Name	I	Q	А	Records
animals amphbians Hylidae Cyclorana albogutata genestripe frog C 1 animals amphbians Hylidae Linona caerulea common green treefrog C 2/1 animals amphbians Hylidae Linona caerulea common green treefrog C 1 animals amphbians Hylidae Linona failax cestem sedgefrog C 1 animals amphbians Hylidae Linona failax broad palmed rockettrog C 1 animals amphbians Hylidae Linona functiona broad palmed rockettrog C 2 animals amphbians Linona functiona sationa treefrog C 2 animals amphbians Linonodynastes peronii sationa step for gene C 2 1 animals amphbians Linnodynastes termareginae scatel side dobbebon C 1 animals amphbians Linnodynastes termareginae scatel side dobbebon C 1 animals	animals	amphibians	Bufonidae	Rhinella marina	cane toad	Y			3
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animalsbirdsAccipitridaeCircus assimilisspotted harrierC1animalsbirdsAccipitridaeElanus axillarisblack-shouldered kiteC3animalsbirdsAccipitridaeHaliaeetus leucogasterwhite-bellied sea-eagleC15animalsbirdsAccipitridaeHaliaetur indusbrahminy kiteC2animalsbirdsAccipitridaeHaliastur indusbrahminy kiteC26animalsbirdsAccipitridaeHaliastur sphenuruswhistling kiteC16animalsbirdsAccipitridaeLophoictinia isurasquare-tailed kiteC16animalsbirdsAccipitridaeMilvus migransblack kiteC10animalsbirdsAccipitridaePandion cristatuseastern ospreySL1animalsbirdsAccocephalidaeAcrocephalus australisAustralian reed-warblerC4animalsbirdsAegothelidaeAegotheles cristatusAustralian owlet-nightjarC1animalsbirdsAlaudidaeMirafra javanicaHorsfield's bushlarkC6	animals	birds	Accipitridae	Aviceda subcristata	Pacific baza				4
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animalsbirdsAccipitridaeLophoictinia isurasquare-tailed kiteC1animalsbirdsAccipitridaeMilvus migransblack kiteC10animalsbirdsAccipitridaePandion cristatuseastern ospreySL1animalsbirdsAcrocephalidaeAcrocephalus australisAustralian reed-warblerC4animalsbirdsAegothelidaeAegotheles cristatusAustralian owlet-nightjarC1animalsbirdsAlaudidaeMirafra javanicaHorsfield's bushlarkC6	animals	birds	Accipitridae	Haliastur indus	brahminy kite		С		2
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animalsbirdsAccipitridaePandion cristatuseastern ospreySL1animalsbirdsAcrocephalidaeAcrocephalus australisAustralian reed-warblerC4animalsbirdsAegothelidaeAegotheles cristatusAustralian owlet-nightjarC1animalsbirdsAlaudidaeMirafra javanicaHorsfield's bushlarkC6	animals	birds	Accipitridae	Lophoictinia isura	square-tailed kite				1
animalsbirdsAcrocephalidaeAcrocephalus australisAustralian reed-warblerC4animalsbirdsAegothelidaeAegotheles cristatusAustralian owlet-nightjarC1animalsbirdsAlaudidaeMirafra javanicaHorsfield's bushlarkC6	animals	birds	Accipitridae	Milvus migrans	black kite		С		10
animalsbirdsAegothelidaeAegotheles cristatusAustralian owlet-nightjarC1animalsbirdsAlaudidaeMirafra javanicaHorsfield's bushlarkC6	animals		Accipitridae				SL		1
animals birds Alaudidae <i>Mirafra javanica</i> Horsfield's bushlark C 6	animals	birds	Acrocephalidae						4
animals birds Alaudidae <i>Mirafra javanica</i> Horsfield's bushlark C 6	animals						С		1
animals birds Alcedinidae <i>Ceyx azureus</i> azure kingfisher C 5	animals						С		-
	animals	birds	Alcedinidae	Ceyx azureus	azure kingfisher		С		5

Kingdom	Class	Family	Scientific Name	Common Name	Ι	Q	А	Records
animals	birds	Anatidae	Anas gracilis	grey teal		С		37
animals	birds	Anatidae	Anas superciliosa	Pacific black duck		С		59
animals	birds	Anatidae	Aythya australis	hardhead		С		45
animals	birds	Anatidae	Chenonetta jubata	Australian wood duck		С		12
animals	birds	Anatidae	Cygnus atratus	black swan		С		51
animals	birds	Anatidae	Dendrocygna arcuata	wandering whistling-duck		С		20
animals	birds	Anatidae	Dendrocygna eytoni	plumed whistling-duck		С		21
animals	birds	Anatidae	Malacorhynchus membranaceus	pink-eared duck		С		1
animals	birds	Anatidae	Nettapus coromandelianus	cotton pygmy-goose		С		30
animals	birds	Anatidae	Nettapus pulchellus	green pygmy-goose		С		3
animals	birds	Anatidae	Radjah radjah	radjah shelduck		С		34/2
animals	birds	Anatidae	Spatula rhynchotis	Australasian shoveler		С		6
animals	birds	Anhingidae	Anhinga novaehollandiae	Australasian darter		С		42
animals	birds	Anseranatidae	Anseranas semipalmata	magpie goose		С		40
animals	birds	Ardeidae	Ardea alba modesta	eastern great egret		С		50
animals	birds	Ardeidae	Ardea intermedia	intermediate egret		С		42
animals	birds	Ardeidae	Ardea pacifica	white-necked heron		С		9
animals	birds	Ardeidae	Bubulcus ibis	cattle egret		C		29
animals	birds	Ardeidae	Butorides striata	striated heron		C		2
animals	birds	Ardeidae	Egretta garzetta	little egret		Č		23
animals	birds	Ardeidae	Egretta novaehollandiae	white-faced heron		Č		28
animals	birds	Ardeidae	Ixobrychus dubius	Australian little bittern		č		2
animals	birds	Ardeidae	Ixobrychus flavicollis	black bittern		Č		4
animals	birds	Ardeidae	Nycticorax caledonicus	nankeen night-heron		Č		4
animals	birds	Artamidae	Artamus cinereus	black-faced woodswallow		č		4
animals	birds	Artamidae	Artamus cyanopterus	dusky woodswallow		Č		1
animals	birds	Artamidae	Artamus leucorynchus	white-breasted woodswallow		č		4
animals	birds	Artamidae	Artamus personatus	masked woodswallow		č		1
animals	birds	Artamidae	Cracticus nigrogularis	pied butcherbird		Č		35
animals	birds	Artamidae	Cracticus torquatus	grey butcherbird		č		1
animals	birds	Artamidae	Gymnorhina tibicen	Australian magpie		č		34
animals	birds	Artamidae	Strepera graculina	pied currawong		Č		12
animals	birds	Burhinidae	Burhinus grallarius	bush stone-curlew		č		5
animals	birds	Cacatuidae	Cacatua galerita	sulphur-crested cockatoo		č		28
animals	birds	Cacatuidae	Calyptorhynchus banksii	red-tailed black-cockatoo		Č		6
animals	birds	Cacatuidae	Calyptorhynchus funereus	yellow-tailed black-cockatoo		č		1
animals	birds	Cacatuidae	Calyptorhynchus lathami erebus	glossy black-cockatoo (northern)		v		2
animals	birds	Cacatuidae	Eolophus roseicapilla	galah		Ċ		11
animals	birds	Cacatuidae	Nymphicus hollandicus	cockatiel		č		13
animals	birds	Campephagidae	Coracina novaehollandiae	black-faced cuckoo-shrike		č		31
animals	birds	Campephagidae	Coracina papuensis	white-bellied cuckoo-shrike		č		9
animals	birds	Campephagidae	Coracina tenuirostris	cicadabird		č		1
animals	birds	Campephagidae	Lalage leucomela	varied triller		č		1
animals	birds	Campephagidae	Lalage tricolor	white-winged triller		č		5
animals	birds	Caprimulgidae	Caprimulgus macrurus	large-tailed nightjar		č		4
animals	birds	Casuariidae	Dromaius novaehollandiae	emu		č		- - 1
annais	Sirus	Casualinae		Citic		0		I

Kingdom	Class	Family	Scientific Name	Common Name	Ι	Q	А	Records
animals	birds	Charadriidae	Charadrius ruficapillus	red-capped plover		С		3
animals	birds	Charadriidae	Elseyornis melanops	black-fronted dotterel		С		11
animals	birds	Charadriidae	Vanellus miles	masked lapwing		С		11
animals	birds	Charadriidae	Vanellus miles novaehollandiae	masked lapwing (southern subspecies)		С		18
animals	birds	Ciconiidae	Ephippiorhynchus asiaticus	black-necked stork		С		8
animals	birds	Cisticolidae	Cisticola exilis	golden-headed cisticola		С		12
animals	birds	Cisticolidae	Cisticola sp.			С		1
animals	birds	Climacteridae	Climacteris picumnus	brown treecreeper		С		1
animals	birds	Climacteridae	Cormobates leucophaea	white-throated treecreeper		С		1
animals	birds	Climacteridae	Cormobates leucophaea intermedia	white-throated treecreeper (intermediate)		С		1
animals	birds	Columbidae	Chalcophaps longirostris	Pacific emerald dove		С		1
animals	birds	Columbidae	Geopelia cuneată	diamond dove		С		2
animals	birds	Columbidae	Geopelia humeralis	bar-shouldered dove		С		13
animals	birds	Columbidae	Geopelia striata	peaceful dove		С		29
animals	birds	Columbidae	Geophaps scripta scripta	squatter pigeon (southern subspecies)		V	V	6
animals	birds	Columbidae	Ocyphaps lophotes	crested pigeon		С		18
animals	birds	Columbidae	Streptopelia chinensis	spotted dove	Y			1
animals	birds	Coraciidae	Eurystomus orientalis	dollarbird		С		9
animals	birds	Corcoracidae	Corcorax melanorhamphos	white-winged chough		Č		5
animals	birds	Corcoracidae	Struthidea cinerea	apostlebird		Č		24
animals	birds	Corvidae	Corvus coronoides	Australian raven		č		4
animals	birds	Corvidae	Corvus orru	Torresian crow		č		59
animals	birds	Cuculidae	Cacomantis flabelliformis	fan-tailed cuckoo		č		2
animals	birds	Cuculidae	Cacomantis pallidus	pallid cuckoo		č		7
animals	birds	Cuculidae	Centropus phasianinus	pheasant coucal		Č		9
animals	birds	Cuculidae	Chalcites basalis	Horsfield's bronze-cuckoo		č		4
animals	birds	Cuculidae	Chalcites minutillus	little bronze-cuckoo		Č		1
animals	birds	Cuculidae	Eudynamys orientalis	eastern koel		Č		9
animals	birds	Cuculidae	Scythrops novaehollandiae	channel-billed cuckoo		č		8
animals	birds	Dicruridae	Dicrurus bracteatus	spangled drongo		č		9
animals	birds	Estrildidae	Lonchura castaneothorax	chestnut-breasted mannikin		Č		9
animals	birds	Estrildidae	Neochmia modesta	plum-headed finch		č		8
animals	birds	Estrildidae	Neochmia phaeton	crimson finch		č		7
animals	birds	Estrildidae	Neochmia phaeton phaeton	crimson finch		Č		1
animals	birds	Estrildidae	Neochmia ruficauda	star finch		č		1
animals	birds	Estrildidae	Neochmia ruficauda ruficauda	star finch (eastern subspecies)		Ĕ	Е	1
animals	birds	Estrildidae	Neochmia temporalis	red-browed finch		Ē	-	2
animals	birds	Estrildidae	Taeniopygia bichenovii	double-barred finch		č		34
animals	birds	Estrildidae	Taeniopygia guttata	zebra finch		č		4
animals	birds	Falconidae	Falco berigora	brown falcon		č		8/1
animals	birds	Falconidae	Falco cenchroides	nankeen kestrel		č		14
animals	birds	Falconidae	Falco longipennis	Australian hobby		č		3
animals	birds	Falconidae	Falco peregrinus	peregrine falcon		č		1
animals	birds	Falconidae	Falco subniger	black falcon		č		1
animals	birds	Glareolidae	Stiltia isabella	Australian pratincole		č		1
annais	bilus	Gialeoliuae				U		I

	Class	Family	Scientific Name	Common Name	Q	A	Records
animals	birds	Gruidae	Antigone rubicunda	brolga	С		43
animals	birds	Haematopodidae	Haematopus longirostris	Australian pied oystercatcher	С		1
animals	birds	Halcyonidae	Dacelo leachii	blue-winged kookaburra	С		26
animals	birds	Halcyonidae	Dacelo novaeguineae	laughing kookaburra	С		29
animals	birds	Halcyonidae	Todiramphus macleayii	forest kingfisher	С		15
animals	birds	Halcyonidae	Todiramphus sanctus	sacred kingfisher	С		7
animals	birds	Halcyonidae	Todiramphus sordidus	Torresian kingfisher	С		1
animals	birds	Hirundinidae	Hirundo neoxena	welcome swallow	С		16
animals	birds	Hirundinidae	Petrochelidon ariel	fairy martin	С		7
animals	birds	Hirundinidae	Petrochelidon nigricans	tree martin	Č		7
animals	birds	Jacanidae	Irediparra gallinacea	comb-crested jacana	Č		21
animals	birds	Laridae	Chlidonias hybrida	whiskered tern	Č		14
animals	birds	Laridae	Chroicocephalus novaehollandiae	silver gull	č		5
animals	birds	Laridae	Gelochelidon nilotica	gull-billed tern	SL		13
animals	birds	Laridae	Hydroprogne caspia	Caspian tern	SL		5
animals	birds	Maluridae	Malurus assimilis	purple-backed fairy-wren	C		3
animals	birds	Maluridae	Malurus lamberti sensu lato	variegated fairy-wren	č		1
animals	birds	Maluridae	Malurus melanocephalus	red-backed fairy-wren	č		32
animals	birds	Megaluridae	Cincloramphus cruralis	brown songlark	č		1
	birds			rufous songlark	č		ו ס
animals		Megaluridae	Cincloramphus mathewsi	0			2
animals	birds	Megaluridae	Megalurus timoriensis	tawny grassbird	С		
animals	birds	Megapodiidae	Alectura lathami	Australian brush-turkey	С		1
animals	birds	Meliphagidae	Acanthagenys rufogularis	spiny-cheeked honeyeater	С		1
animals	birds	Meliphagidae	Entomyzon cyanotis	blue-faced honeyeater	C		31/2
animals	birds	Meliphagidae	Epthianura crocea	yellow chat	V		1
animals	birds	Meliphagidae	Gavicalis fasciogularis	mangrove honeyeater	С		11
animals	birds	Meliphagidae	Gavicalis virescens	singing honeyeater	С		8
animals	birds	Meliphagidae	Lichmera indistincta	brown honeyeater	С		22
animals	birds	Meliphagidae	Manorina flavigula	yellow-throated miner	С		6
animals	birds	Meliphagidae	Manorina melanocephala	noisy miner	С		9
animals	birds	Meliphagidae	Meliphaga lewinii	Lewin's honeyeater	С		18
animals	birds	Meliphagidae	Melithreptus albogularis	white-throated honeyeater	С		27/2
animals	birds	Meliphagidae	Melithreptus lunatus	white-naped honeyeater	С		2
animals	birds	Meliphagidae	Myzomela sanguinolenta	scarlet honeyeater	С		6
animals	birds	Meliphagidae	Philemon buceroides	helmeted friarbird	С		1
animals	birds	Meliphagidae	Philemon citreogularis	little friarbird	С		14
animals	birds	Meliphagidae	Philemon corniculatus	noisy friarbird	С		16
animals	birds	Meliphagidae	Ptilotula fusca	fuscous honeyeater	С		1
animals	birds	Meliphagidae	Ptilotula penicillata	white-plumed honeyeater	С		1
animals	birds	Meliphagidae	Ramsayornis fasciatus	bar-breasted honeyeater	С		2
animals	birds	Meliphagidae	Stomiopera flava	yellow honeyeater	C		18/2
animals	birds	Meropidae	Merops ornatus	rainbow bee-eater	č		13
animals	birds	Monarchidae	Grallina cyanoleuca	magpie-lark	č		41
animals	birds	Monarchidae	Monarcha melanopsis	black-faced monarch	SL		1
animals	birds	Monarchidae	Myiagra inquieta	restless flycatcher	C		5
ainnaío	birds	Monarchidae	Mylagra rubecula	leaden flycatcher	č		12

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	А	Records
animals	birds	Motacillidae	Anthus novaeseelandiae	Australasian pipit		С		10
animals	birds	Nectariniidae	Dicaeum hirundinaceum	mistletoebird		С		15
animals	birds	Neosittidae	Daphoenositta chrysoptera	varied sittella		С		7
animals	birds	Oriolidae	Oriolus sagittatus	olive-backed oriole		С		3
animals	birds	Oriolidae	Sphecotheres vieilloti	Australasian figbird		С		22/1
animals	birds	Otididae	Ardeotis australis	Australian bustard		С		10
animals	birds	Pachycephalidae	Colluricincla harmonica	grey shrike-thrush		С		9
animals	birds	Pachycephalidae	Colluricincla megarhyncha	little shrike-thrush		С		1
animals	birds	Pachycephalidae	Pachycephala pectoralis	golden whistler		С		1
animals	birds	Pachycephalidae	Pachycephala rufiventris	rufous whistler		С		26
animals	birds	Pardalotidae	Pardalotus punctatus	spotted pardalote		С		1
animals	birds	Pardalotidae	Pardalotus striatus	striated pardalote		С		39/1
animals	birds	Pelecanidae	Pelecanus conspicillatus	Australian pelican		С		21
animals	birds	Petroicidae	Eopsaltria australis	eastern yellow robin		С		1
animals	birds	Petroicidae	Microeca fascinans	jacky winter		С		1
animals	birds	Petroicidae	Microeca flavigaster	lemon-bellied flycatcher		С		3
animals	birds	Petroicidae	Peneoenanthe pulverulenta	mangrove robin		С		2
animals	birds	Petroicidae	Petroica goodenovii	red-capped robin		С		1
animals	birds	Petroicidae	Petroica rosea	rose robin		С		2
animals	birds	Phalacrocoracidae	Microcarbo melanoleucos	little pied cormorant		С		39
animals	birds	Phalacrocoracidae	Phalacrocorax sulcirostris	little black cormorant		С		27
animals	birds	Phalacrocoracidae	Phalacrocorax varius	pied cormorant		С		6
animals	birds	Phasianidae	Coturnix ypsilophora	brown quail		С		6
animals	birds	Podargidae	Podargus strigoides	tawny frogmouth		С		5
animals	birds	Podicipedidae	Podiceps cristatus	great crested grebe		С		6
animals	birds	Podicipedidae	Tachybaptus novaehollandiae	Australasian grebe		С		40
animals	birds	Pomatostomidae	Pomatostomus temporalis	grey-crowned babbler		С		8
animals	birds	Psittacidae	Alisterus scapularis	Australian king-parrot		С		1
animals	birds	Psittacidae	Aprosmictus erythropterus	red-winged parrot		С		17
animals	birds	Psittacidae	Parvipsitta pusilla	little lorikeet		С		3
animals	birds	Psittacidae	Platycercus adscitus	pale-headed rosella		С		24/2
animals	birds	Psittacidae	Trichoglossus chlorolepidotus	scaly-breasted lorikeet		С		8
animals	birds	Psittacidae	Trichoglossus moluccanus	rainbow lorikeet		С		33/1
animals	birds	Ptilonorhynchidae	Ptilonorhynchus maculatus	spotted bowerbird		С		5
animals	birds	Rallidae	Amaurornis moluccana	pale-vented bush-hen		С		1
animals	birds	Rallidae	Fulica atra	Eurasian coot		С		33
animals	birds	Rallidae	Gallinula tenebrosa	dusky moorhen		С		28
animals	birds	Rallidae	Gallirallus philippensis	buff-banded rail		С		1
animals	birds	Rallidae	Porphyrio melanotus	purple swamphen		С		28
animals	birds	Rallidae	Porzana pusilla	Baillon's crake		С		1
animals	birds	Recurvirostridae	Himantopus himantopus	black-winged stilt		С		23
animals	birds	Rhipiduridae	Rhipidura albiscapa	grey fantail		С		25
animals	birds	Rhipiduridae	Rhipidura leucophrys	willie wagtail		С		46
animals	birds	Rostratulidae	Rostratula australis	Australian painted snipe		Е	Е	2
animals	birds	Scolopacidae	Calidris acuminata	sharp-tailed sandpiper		SL		3
animals	birds	Scolopacidae	Calidris ferruginea	curlew sandpiper		CR	CE	1

Kingdom	Class	Family	Scientific Name	Common Name	Ι	Q	А	Records
animals	birds	Scolopacidae	Calidris ruficollis	red-necked stint		SL		1
animals	birds	Scolopacidae	Gallinago hardwickii	Latham's snipe		SL		10
animals	birds	Scolopacidae	Limosa lapponica baueri	Western Alaskan bar-tailed godwit		V	V	1
animals	birds	Scolopacidae	Limosa limosa	black-tailed godwit		SL		3
animals	birds	Scolopacidae	Numenius madagascariensis	eastern curlew		Е	CE	3
animals	birds	Scolopacidae	Tringa glareola	wood sandpiper		SL		1
animals	birds	Scolopacidae	Tringa nebularia	common greenshank		SL		6
animals	birds	Scolopacidae	Tringa stagnatilis	marsh sandpiper		SL		4
animals	birds	Strigidae	Ninox boobook	southern boobook		C		8
animals	birds	Strigidae	Ninox connivens	barking owl		Č		3
animals	birds	Strigidae	Ninox rufa queenslandica	rufous owl (southern subspecies)		č		1
animals	birds	Threskiornithidae	Platalea flavipes	yellow-billed spoonbill		č		22
animals	birds	Threskiornithidae	Platalea regia	royal spoonbill		č		35
animals	birds	Threskiornithidae	Plegadis falcinellus	glossy ibis		SL		10
animals	birds	Threskiornithidae	Threskiornis molucca	Australian white ibis		C		27
animals	birds	Threskiornithidae	Threskiornis spinicollis	straw-necked ibis		č		37
animals	birds	Timaliidae	Zosterops lateralis	silvereye		c		57
	birds	Turnicidae	Turnix varius			c		4
animals	birds			painted button-quail		c		1
animals	birds	Tytonidae	Tyto delicatula	eastern barn owl		c		1
animals		Tytonidae	Tyto novaehollandiae	masked owl		V		1
animals	insects	Lycaenidae	Jalmenus eubulus	pale imperial hairstreak		V		1
animals	insects	Nymphalidae	Euploea corinna	common crow				1
animals	mammals	Canidae	Canis familiaris (dingo)	dingo				1
animals	mammals	Canidae	Canis sp.		Y			1
animals	mammals	Cervidae	Cervus timorensis	rusa deer	Y	-	_	1
animals	mammals	Dasyuridae	Dasyurus hallucatus	northern quoll		С	Е	1
animals	mammals	Felidae	Felis catus	cat	Y			3
animals	mammals	Leporidae	Oryctolagus cuniculus	rabbit	Y			2
animals	mammals	Macropodidae	Macropus giganteus	eastern grey kangaroo		С		3
animals	mammals	Macropodidae	Notamacropus agilis	agile wallaby		С		2
animals	mammals	Macropodidae	Notamacropus dorsalis	black-striped wallaby		С		1
animals	mammals	Macropodidae	Notamacropus parryi	whiptail wallaby		С		2
animals	mammals	Macropodidae	Petrogale herberti	Herbert's rock-wallaby		С		1
animals	mammals	Macropodidae	Petrogale inornata	unadorned rock-wallaby		С		1
animals	mammals	Macropodidae	Wallabia bicolor	swamp wallaby		С		1
animals	mammals	Muridae	Hydromys chrysogaster	water rat		С		1
animals	mammals	Ornithorhynchidae	Órnithorhynchus anatinus	platypus		SL		2
animals	mammals	Peramelidae	Isoodon macrourus	northern brown bandicoot		С		2
animals	mammals	Peramelidae	Perameles nasuta	long-nosed bandicoot		Č		1
animals	mammals	Petauridae	Petaurus australis australis	yellow-bellied glider (southern subspecies)		V		1
animala	mammala	Phascolarctidae	Phascolarctos cinereus	koala		17	V	26
animals	mammals					č	v	26 5/1
animals	mammals	Potoroidae	Aepyprymnus rufescens	rufous bettong		C	V	5/1
animals	mammals	Pseudocheiridae	Petauroides armillatus	central greater glider		Е	V	2
animals	mammals	Suidae	Sus scrofa	pig	Y	~		2
animals	mammals	Tachyglossidae	Tachyglossus aculeatus	short-beaked echidna		SL		1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	А	Records
animals	ray-finned fishes	Ambassidae	Ambassis agassizii	Agassiz's glassfish				8
animals	ray-finned fishes	Anguillidae	Anguilla reinhardtii	longfin eel				2
animals	ray-finned fishes	Apogonidae	Glossamia aprion	mouth almighty				8
animals	ray-finned fishes		Neoarius graeffei	blue catfish				53
animals	ray-finned fishes	Atherinidae	Craterocephalus stercusmuscarum	flyspecked hardyhead				11
animals	ray-finned fishes	Belonidae	Strongylura krefftii	freshwater longtom				19
animals	ray-finned fishes	Clupeidae	Nematalosa erebi	bony bream				305
animals	ray-finned fishes	Eleotridae	Hypseleotris compressa	empire gudgeon				3
animals	ray-finned fishes	Eleotridae	Hypseleotris galii	firetail gudgeon				1
animals	ray-finned fishes	Eleotridae	Hypseleotris klunzingeri	western carp gudgeon				6
animals	ray-finned fishes	Eleotridae	Hypseleotris species 1	Midgley's carp gudgeon				7
animals	ray-finned fishes	Eleotridae	Mogurnda adspersa	southern purplespotted gudgeon				6
animals	ray-finned fishes	Eleotridae	Oxyeleotris aruensis	Aru gudgeon				3
animals	ray-finned fishes	Eleotridae	Oxyeleotris lineolata	sleepy cod				1
animals	ray-finned fishes	Eleotridae	Philypnodon grandiceps	flathead gudgeon				6
animals	ray-finned fishes	Hemiramphidae	Arrhamphus sclerolepis	snubnose garfish				1
animals	ray-finned fishes	Melanotaeniidae	Melanotaenia splendida splendida	eastern rainbowfish				11
animals	ray-finned fishes	Osteoglossidae	Scleropages leichardti	southern saratoga				14
animals	ray-finned fishes	Percichthyidae	Macquaria ambigua	golden perch				4
animals	ray-finned fishes	Plotosidae	Neosilurus ater	black catfish				1
animals	ray-finned fishes	Plotosidae	Neosilurus hyrtlii	Hyrtl's catfish				16
animals	ray-finned fishes	Plotosidae	Tandanus tandanus	freshwater catfish				11
animals	ray-finned fishes	Terapontidae	Amniataba percoides	barred grunter				31
animals	ray-finned fishes	Terapontidae	Leiopotherapon unicolor	spangled perch				6
animals	ray-finned fishes	Terapontidae	Scortum hillii	leathery grunter				17
animals	reptiles	Agamidae	Chlamydosaurus kingii	frilled lizard		С		1
animals	reptiles	Agamidae	Diporiphora australis	tommy roundhead		С		1
animals	reptiles	Agamidae	Intellagama lesueurii	eastern water dragon		С		1
animals	reptiles	Boidae	Aspidites melanocephalus	black-headed python		С		2
animals	reptiles	Chelidae	Chelodina sp.			С		2
animals	reptiles	Chelidae	Elseya albagula	southern snapping turtle		CR	CE	1
animals	reptiles	Chelidae	Emydura macquarii krefftii	Krefft's river turtle		С		3
animals	reptiles	Chelidae	Rheodytes leukops	Fitzroy River turtle		V	V	5
animals	reptiles	Colubridae	Boiga irregularis	brown tree snake		С		1
animals	reptiles	Colubridae	Dendrelaphis punctulatus	green tree snake		С		1
animals	reptiles	Diplodactylidae	Oedura monilis sensu lato	ocellated velvet gecko		С		1
animals	reptiles	Elapidae	Demansia torquata	collared whipsnake		С		3
animals	reptiles	Elapidae	Denisonia maculata	ornamental snake		V	V	2
animals	reptiles	Elapidae	Suta suta	myall snake		С		1
animals	reptiles	Gekkonidae	Gehyra catenata	chain-backed dtella		С		2
animals	reptiles	Gekkonidae	Gehyra dubia	dubious dtella		С		1
animals	reptiles	Scincidae	Carlia munda	shaded-litter rainbow-skink		С		2
animals	reptiles	Scincidae	Carlia schmeltzii	robust rainbow-skink		С		1
animals	reptiles	Scincidae	Carlia vivax	tussock rainbow-skink		С		1
animals	reptiles	Scincidae	Cryptoblepharus metallicus	metallic snake-eyed skink		С		1
animals	reptiles	Scincidae	Cryptoblepharus virgatus sensu lato			С		1

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animals repities Scincidae Eularpous sp	animals								1
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Kingdom	Class	Family	Scientific Name	Common Name	I	Q	А	Records
plants	land plants	Cyperaceae	Cyperus perangustus			С		1/1
, plants	land plants	Cyperaceae	Cyperus procerus			С		1/1
plants	land plants	Cyperaceae	Cyperus pygmaeus	dwarf sedge		С		1/1
plants	land plants	Cyperaceae	Cyperus scariosus	0		С		1
plants	land plants	Cyperaceae	Cyperus tenuispica			С		1/1
plants	land plants	Cyperaceae	Eleocharis acutangula			С		1/1
plants	land plants	Cyperaceae	Eleocharis cylindrostachys			С		1/1
plants	land plants	Cyperaceae	Eleocharis dulcis			С		1
plants	land plants	Cyperaceae	Eleocharis philippinensis			С		1/1
, plants	land plants	Cyperaceae	Eleocharis plana	ribbed spikerush		С		1/1
, plants	land plants	Cyperaceae	Eleocharis spiralis	· ·		С		1
, plants	land plants	Cyperaceae	Fimbristylis aestivalis			С		1/1
, plants	land plants	Cyperaceae	Fimbristylis littoralis			С		2/2
plants	land plants	Cyperaceae	Fimbristylis microcarya			Ċ		2/2
plants	land plants	Cyperaceae	Gahnia aspera			C		3/1
plants	land plants	Cyperaceae	Gahnia sieberiana	sword grass		Č		1
plants	land plants	Cyperaceae	Schoenoplectus subulatus	5		Č		1
plants	land plants	Dilleniaceae	Hibbertia			-		2
plants	land plants	Dilleniaceae	Hibbertia stricta			С		1/1
plants	land plants	Dioscoreaceae	Dioscorea transversa	native yam		č		2
plants	land plants	Droseraceae	Drosera	······································		-		1
plants	land plants	Ebenaceae	Diospyros australis	black plum		С		1
plants	land plants	Ebenaceae	Diospyros geminata	scaly ebony		Č		2
plants	land plants	Elaeagnaceae	Elaeagnus triflora var. triflora			Č		1/1
plants	land plants	Elaeocarpaceae	Elaeocarpus obovatus	blueberry ash		č		2
plants	land plants	Elatinaceae	Elatine gratioloides	waterwort		č		1/1
plants	land plants	Ericaceae	Leucopogon			Ũ		2
plants	land plants	Ericaceae	Styphelia cuspidata			С		2/2
plants	land plants	Erythroxylaceae	Erythroxylum australe	cocaine tree		Č		4/4
plants	land plants	Euphorbiaceae	Acalypha eremorum	soft acalypha		č		1/1
plants	land plants	Euphorbiaceae	Adriana tomentosa var. tomentosa			č		2/2
plants	land plants	Euphorbiaceae	Croton insularis	Queensland cascarilla		Č		1/1
plants	land plants	Euphorbiaceae	Croton phebalioides	narrow-leaved croton		č		1/1
plants	land plants	Euphorbiaceae	Euphorbia hirta		Y	•		2/2
plants	land plants	Euphorbiaceae	Euphorbia thymifolia		Ý			1/1
plants	land plants	Euphorbiaceae	Macaranga tanarius	macaranga	•	С		2/1
plants	land plants	Euphorbiaceae	Mallotus philippensis	red kamala		č		3
plants	land plants	Euphorbiaceae	Ricinocarpos ledifolius	scrub wedding bush		č		1/1
plants	land plants	Euphorbiaceae	Ricinus communis	castor oil bush	Y	Ũ		3/2
plants	land plants	Gentianaceae	Schenkia australis		•	С		1/1
plants	land plants	Goodeniaceae	Goodenia			•		1
plants	land plants	Goodeniaceae	Goodenia mystrophylla			С		1/1
plants	land plants	Goodeniaceae	Goodenia subsolana			č		2/2
plants	land plants	Haloragaceae	Myriophyllum			5		1
plants	land plants	Hemerocallidaceae	Dianella caerulea			С		2
plants	land plants	Hemerocallidaceae	Dianella caerulea var. vannata			č		1/1
planto						0		1/ 1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	А	Record
plants	land plants	Hemerocallidaceae	Geitonoplesium cymosum	scrambling lily		С		4/1
plants	land plants	Hydrocharitaceae	Blyxa					1
plants	land plants	Hypoxidaceae	Hypoxis pratensis var. pratensis			С		1/1
plants	land plants	Juncaceae	Juncus					1
plants	land plants	Juncaceae	Juncus polyanthemus			С		1/1
plants	land plants	Juncaginaceae	Cycnogeton dubius			С		1/1
plants	land plants	Juncaginaceae	Cycnogeton procerus			С		1
plants	land plants	Lamiaceae	Ajuga australis	Australian bugle		С		2
olants	land plants	Lamiaceae	Clerodendrum floribundum			С		2/1
olants	land plants	Lamiaceae	Clerodendrum tomentosum			С		1
olants	land plants	Lamiaceae	Coleus graveolens			С		2/1
olants	land plants	Lamiaceae	Glossocarya hemiderma			С		2/2
olants	land plants	Lamiaceae	Leonotis nepetifolia		Y			1/1
olants	land plants	Lamiaceae	Mesosphaerum suaveolens		Y			1/1
plants	land plants	Lamiaceae	Plectranthus					1
olants	land plants	Lamiaceae	Salvia plebeia	common sage		С		1
olants	land plants	Lamiaceae	Salvia reflexa	6	Y			1/
olants	land plants	Lamiaceae	Teucrium junceum			С		1/
olants	land plants	Lauraceae	Cryptocarya triplinervis			Ċ		3
olants	land plants	Laxmanniaceae	Eustrephus latifolius	wombat berry		Ċ		1
plants	land plants	Laxmanniaceae	Lomandra longifolia			Č		3
olants	land plants	Lecythidaceae	Planchonia careya	cockatoo apple		č		1
olants	land plants	Leguminosae	Acacia aulacocarpa			č		4
plants	land plants	Leguminosae	Acacia crassa subsp. crassa			č		1/
plants	land plants	Leguminosae	Acacia cretata x Acacia fodinalis			č		1/
plants	land plants	Leguminosae	Acacia disparrima subsp. disparrima			č		2/2
plants	land plants	Leguminosae	Acacia falcata	sickle wattle		č		
olants	land plants	Leguminosae	Acacia harpophylla	brigalow		č		1/
plants	land plants	Leguminosae	Acacia holosericea	bligatow		č		1
olants	land plants	Leguminosae	Acacia implexa	lightwood		č		2/2
plants	land plants	Leguminosae	Acacia leiocalyx	lightwood		č		1
olants	land plants	Leguminosae	Acacia leptocarpa	north coast wattle		č		2/2
olants	land plants	Leguminosae	Acacia maidenii	Maiden's wattle		c		3
plants	land plants	Leguminosae	Acacia penninervis	Maldell'S wattle		č		1
	land plants	Leguminosae	Acacia rhodoxylon	ripay resewood		c		1/
olants	land plants	Leguminosae	Acacia sp. (Comet L.Pedley 4091)	ringy rosewood		c		1/
olants	land plants		Acacia sparsiflora			c		1/
plants	•	Leguminosae			Y	C		1/
olants	land plants	Leguminosae	Alysicarpus vaginalis		I	C		
olants	land plants	Leguminosae	Archidendropsis thozetiana Austrosteenisia blackii	bloodvine		C C		1/ 3
plants	land plants	Leguminosae		DIOOUVITE				3 1
plants	land plants	Leguminosae	Cajanus scarabaeoides			C		
plants	land plants	Leguminosae	Cajanus scarabaeoides var. scarabaeoides			Č		1/
plants	land plants	Leguminosae	Cassia brewsteri					4/4
plants	land plants	Leguminosae	Chamaecrista exigua var. minor					1/
plants	land plants	Leguminosae	Chorizema parviflorum	eastern flame pea		C		1
plants	land plants	Leguminosae	Crotalaria mitchellii subsp. mitchellii			С		1/

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	А	Records
plants	land plants	Leguminosae	Desmodium filiforme			С		1/1
plants	land plants	Leguminosae	Desmodium rhytidophyllum			С		1/1
plants	land plants	Leguminosae	Desmodium triflorum		Y			1/1
plants	land plants	Leguminosae	Falcataria toona			С		4/1
plants	land plants	Leguminosae	Flemingia parviflora	flemingia		С		1
plants	land plants	Leguminosae	Galactia tenuiflora			С		1
plants	land plants	Leguminosae	Glycine clandestina			С		1
plants	land plants	Leguminosae	Glycine sp. (Laglan Station L.S.Smith 10302)			С		1/1
plants	land plants	Leguminosae	Glycine sp. (Mackay S.B.Andrews+ 43)			С		1/1
plants	land plants	Leguminosae	Glycine tabacina	glycine pea		С		1
plants	land plants	Leguminosae	Glycine tomentella	woolly glycine		С		1
plants	land plants	Leguminosae	Hardenbergia violacea			C C		3
, plants	land plants	Leguminosae	Indigofera trifoliata			С		1
, plants	land plants	Leguminosae	Indigofera tryonii			С		1/1
plants	land plants	Leguminosae	Jacksonia scoparia			С		3/1
plants	land plants	Leguminosae	Leucaena leucocephala subsp. leucocephala		Y			1/1
, plants	land plants	Leguminosae	Lysiphyllum hookeri	Queensland ebony		С		2/2
plants	land plants	Leguminosae	Macroptilium lathyroides	, , , , , , , , , , , , , , , , , , ,	Y			1/1
plants	land plants	Leguminosae	Mimosa pudica var. unijuga		Ý			1/1
plants	land plants	Leguminosae	Neptunia gracilis forma gracilis		-	С		1/1
plants	land plants	Leguminosae	Rhynchosia acuminatissima			Č		1/1
plants	land plants	Leguminosae	Rhynchosia minima			č		1
plants	land plants	Leguminosae	Rhynchosia minima var. australis			č		1/1
plants	land plants	Leguminosae	Senna coronilloides			Č		1/1
plants	land plants	Leguminosae	Senna gaudichaudii			č		1/1
plants	land plants	Leguminosae	Senna occidentalis	coffee senna	Y	Ũ		1/1
plants	land plants	Leguminosae	Sesbania		•			1
plants	land plants	Leguminosae	Stylosanthes scabra		Y			1/1
plants	land plants	Leguminosae	Tephrosia		•			1
plants	land plants	Leguminosae	Tephrosia leptoclada			С		1/1
plants	land plants	Leguminosae	Tephrosia sp. (Miriam Vale E.J.Thompson+ MIR33)			č		1/1
plants	land plants	Leguminosae	Vachellia bidwillii			č		7/6
plants	land plants	Leguminosae	Vachellia nilotica	prickly acacia	Y	0		2/2
plants	land plants	Leguminosae	Vigna		1			2/2
plants	land plants	Leguminosae	Vigna sp. (Greta Creek R.J.Lawn+ AQ532201)			С		1/1
		Leguminosae	Zornia			C		1/ 1
plants plants	land plants land plants	5	Zornia Zornia muriculata subsp. angustata			С		1/1
•	•	Leguminosae				c		1/1
plants	land plants	Linderniaceae	Bonnaya tenuifolia Lindernia sp. (Bribie Island S.T.Blake 7089)					1/1
plants	land plants	Linderniaceae Linderniaceae	Torenia crustacea			C C		1/1
plants	land plants			struchning trac				
plants	land plants	Loganiaceae	Strychnos psilosperma	strychnine tree		C		2/2
plants	land plants	Lythraceae	Ammannia multiflora Botolo movicono	jerry-jerry		C		1/1
plants	land plants	Lythraceae	Rotala mexicana	Chinago lantar		C		2/2
plants	land plants	Malvaceae	Abutilon auritum	Chinese lantern	V	С		2/2
plants	land plants	Malvaceae	Abutilon guineense		Y	0		1/1
plants	land plants	Malvaceae	Abutilon micropetalum			С		1/1

plants land plants Malvaceae Gosyptum australe (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	Kingdom	Class	Family	Scientific Name	Common Name	I	Q	А	Records
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Kingdom	Class	Family	Scientific Name	Common Name	I	Q	А	Records
plants	land plants	Myrtaceae	Melaleuca fluviatilis			С		1/1
plants	land plants	Myrtaceae	Melaleuca leucadendra	broad-leaved tea-tree		С		1
plants	land plants	Myrtaceae	Melaleuca linariifolia	snow-in summer		С		4
plants	land plants	Myrtaceae	Melaleuca nervosa			С		1
plants	land plants	Myrtaceae	Melaleuca viminalis			С		2/1
plants	land plants	Myrtaceae	Melaleuca viridiflora			С		1
plants	land plants	Myrtaceae	Melaleuca viridiflora var. viridiflora			С		1/1
plants	land plants	Myrtaceae	Ochrosperma lineare			С		1
plants	land plants	Myrtaceae	Syzygium australe	scrub cherry		С		4/1
plants	land plants	Nymphaeaceae	Nymphaea					1
plants	land plants	Oleaceae	Jasminum didymum			С		3
plants	land plants	Onagraceae	Ludwigia peploides subsp. montevidensis			С		2/1
plants	land plants	Orchidaceae	Cymbidium canaliculatum			С		1
plants	land plants	Orchidaceae	Cymbidium suave			С		1
plants	land plants	Orchidaceae	Dendrobium					1
plants	land plants	Orchidaceae	Dendrobium tetragonum	tree spider orchid		С		1/1
plants	land plants	Orchidaceae	Dockrillia nugentii			С		1/1
plants	land plants	Orchidaceae	Oberonia complanata			С		1/1
plants	land plants	Oxalidaceae	Oxalis chnoodes			С		1/1
plants	land plants	Papaveraceae	Argemone ochroleuca subsp. ochroleuca	Mexican poppy	Y			2/1
plants	land plants	Passifloraceae	Passiflora aurantia			С		2
plants	land plants	Passifloraceae	Passiflora aurantia var. aurantia			С		1/1
plants	land plants	Passifloraceae	Passiflora foetida		Y			1/1
plants	land plants	Passifloraceae	Passiflora suberosa subsp. litoralis		Y			1/1
plants	land plants	Philydraceae	Philydrum lanuginosum	frogsmouth		С		1
plants	land plants	Phrymaceae	Glossostigma diandrum	-		С		1/1
plants	land plants	Phyllanthaceae	Breynia oblongifolia			С		5/1
plants	land plants	Phyllanthaceae	Bridelia leichhardtii			С		3/1
plants	land plants	Phyllanthaceae	Flueggea leucopyrus			С		1/1
plants	land plants	Phyllanthaceae	Glochidion ferdinandi			С		1
plants	land plants	Phyllanthaceae	Phyllanthus					2/1
plants	land plants	Phyllanthaceae	Phyllanthus maderaspatensis var. maderaspatensis			С		1/1
plants	land plants	Pittosporaceae	Pittosporum revolutum	yellow pittosporum		С		1
plants	land plants	Pittosporaceae	Pittosporum spinescens			С		1/1
plants	land plants	Plumbaginaceae	Plumbago zeylanica	native plumbago		С		1/1
plants	land plants	Poaceae	Aristida acuta			С		1/1
plants	land plants	Poaceae	Aristida calycina var. calycina			С		1/1
plants	land plants	Poaceae	Aristida perniciosa			С		1/1
plants	land plants	Poaceae	Aristida personata			С		1/1
plants	land plants	Poaceae	Aristida queenslandica var. dissimilis			С		1/1
plants	land plants	Poaceae	Arundinella nepalensis	reedgrass		С		1
plants	land plants	Poaceae	Calyptochloa gracillima subsp. gracillima	5		C		1/1
plants	land plants	Poaceae	Chloris inflata	purpletop chloris	Y			1/1
plants	land plants	Poaceae	Chrysopogon fallax			С		3/2
plants	land plants	Poaceae	Chrysopogon filipes			Č		1/1
plants	land plants	Poaceae	Cymbopogon refractus	barbed-wire grass		Č		2
			, , ,	0		-		

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	А	Records
plants	land plants	Poaceae	Dichanthium queenslandicum			V	Е	1/1
plants	land plants	Poaceae	Dichanthium sericeum subsp. sericeum			С		1/1
plants	land plants	Poaceae	Digitaria divaricatissima	spreading umbrella grass		С		1/1
plants	land plants	Poaceae	Dinebra divaricatissima			С		1/1
plants	land plants	Poaceae	Diplachne fusca			С		1
plants	land plants	Poaceae	Diplachne fusca var. fusca			С		2/2
plants	land plants	Poaceae	Echinochloa colona	awnless barnyard grass	Y			4/4
plants	land plants	Poaceae	Enneapogon lindleyanus			С		1/1
plants	land plants	Poaceae	Enneapogon polyphyllus	leafy nineawn		С		1/1
plants	land plants	Poaceae	Eragrostis					1/1
plants	land plants	Poaceae	Eragrostis pilosa	soft lovegrass	Y			1/1
plants	land plants	Poaceae	Eriachne mucronata forma (Alpha C.E.Hubbard 7882			С		1/1
plants	land plants	Poaceae	Heteropogon contortus	black speargrass		С		1
plants	land plants	Poaceae	Heteropogon triticeus	giant speargrass		С		3/1
plants	land plants	Poaceae	Holcolemma dispar			С		2/2
plants	land plants	Poaceae	Hymenachne amplexicaulis	hymenachne	Y			1
plants	land plants	Poaceae	Hymenachne amplexicaulis 'Olive'		Y			1/1
plants	land plants	Poaceae	Imperata cylindrica	blady grass		С		2
plants	land plants	Poaceae	Iseilema macratherum			С		1/1
plants	land plants	Poaceae	Leersia hexandra	swamp rice grass		С		1/1
plants	land plants	Poaceae	Melinis repens	red natal grass	Y			1/1
plants	land plants	Poaceae	Mnesithea rottboellioides			С		1/1
plants	land plants	Poaceae	Oplismenus aemulus	creeping shade grass		С		1
plants	land plants	Poaceae	Panicum laevinode	pepper grass		С		1/1
plants	land plants	Poaceae	Paspalidium					1
plants	land plants	Poaceae	Paspalidium globoideum	sago grass		С		1/1
plants	land plants	Poaceae	Paspalum distichum	water couch	Y			1
plants	land plants	Poaceae	Pseudoraphis					1
plants	land plants	Poaceae	Sarga leiocladum			С		1/1
plants	land plants	Poaceae	Schizachyrium fragile	firegrass		С		1/1
plants	land plants	Poaceae	Setaria oplismenoides			С		1/1
plants	land plants	Poaceae	Sorghum nitidum			С		3
plants	land plants	Poaceae	Sporobolus jacquemontii		Y			1/1
plants	land plants	Poaceae	Sporobolus pyramidalis		Y			1/1
plants	land plants	Poaceae	Sporobolus virginicus	sand couch		С		1
plants	land plants	Poaceae	Themeda quadrivalvis	grader grass	Y			1/1
plants	land plants	Poaceae	Themeda triandra	kangaroo grass		С		3
plants	land plants	Poaceae	Urochloa mosambicensis	sabi grass	Y			2/2
plants	land plants	Poaceae	Urochloa mutica		Y			1
plants	land plants	Polygonaceae	Persicaria					1
plants	land plants	Polygonaceae	Persicaria orientalis	princes feathers		С		1/1
plants	land plants	Polygonaceae	Polygonum plebeium	small knotweed		С		1/1
plants	land plants	Polypodiaceae	Drynaria rigidula			С		4/2
plants	land plants	Polypodiaceae	Drynaria sparsisora			С		1
plants	land plants	Polypodiaceae	Pyrrosia rupestris	rock felt fern		С		1/1
plants	land plants	Pontederiaceae	Monochoria cyanea			С		4/3

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	А	Records
plants	land plants	Potamogetonaceae	Potamogeton tepperi			С		1/1
plants	land plants	Proteaceae	Banksia integrifolia			С		1
plants	land plants	Pteridaceae	Adiantum aethiopicum			С		1
plants	land plants	Pteridaceae	Adiantum hispidulum			С		1
plants	land plants	Pteridaceae	Adiantum hispidulum var. hispidulum			С		1/1
plants	land plants	Pteridaceae	Adiantum hispidulum var. hypoglaucum			С		1/1
plants	land plants	Pteridaceae	Cheilanthes					1
plants	land plants	Putranjivaceae	Drypetes deplanchei	grey boxwood		С		3
plants	land plants	Ranunculaceae	Clematis glycinoides			С		1
plants	land plants	Rhamnaceae	Alphitonia excelsa	soap tree		С		3/1
plants	land plants	Rubiaceae	Antirhea putaminosa			С		1/1
plants	land plants	Rubiaceae	Atractocarpus fitzalanii			С		4
plants	land plants	Rubiaceae	Atractocarpus fitzalanii subsp. fitzalanii			С		1/1
plants	land plants	Rubiaceae	Coelospermum reticulatum			С		2
plants	land plants	Rubiaceae	Cyclophyllum coprosmoides			С		1
plants	land plants	Rubiaceae	Everistia vacciniifolia var. vacciniifolia			С		1/1
plants	land plants	Rubiaceae	Opercularia diphylla			С		2/2
plants	land plants	Rubiaceae	Pavetta australiensis			С		1
plants	land plants	Rubiaceae	Pavetta australiensis var. australiensis			С		1/1
plants	land plants	Rubiaceae	Psychotria daphnoides			С		3/1
plants	land plants	Rubiaceae	Psydrax attenuata forma megalantha			С		1/1
plants	land plants	Rubiaceae	Psydrax johnsonii			С		1/1
plants	land plants	Rubiaceae	Psydrax longipes			С		1/1
plants	land plants	Rubiaceae	Psydrax odorata			С		2
plants	land plants	Rubiaceae	Scleromitrion subulatum			С		1/1
plants	land plants	Rubiaceae	Timonius timon var. timon			С		1
plants	land plants	Rutaceae	Acronychia laevis	glossy acronychia		С		4/1
plants	land plants	Rutaceae	Acronychia pauciflora	soft acronychia		С		1/1
plants	land plants	Rutaceae	Coatesia paniculata			С		1/1
plants	land plants	Rutaceae	Flindersia australis	crow's ash		С		2/2
plants	land plants	Rutaceae	Flindersia dissosperma			С		1/1
plants	land plants	Rutaceae	Geijera salicifolia	brush wilga		С		3/2
plants	land plants	Rutaceae	Murraya ovatifoliolata	C C		С		1/1
plants	land plants	Salicaceae	Scolopia braunii	flintwood		С		1
plants	land plants	Santalaceae	Exocarpos latifolius			С		1/1
plants	land plants	Sapindaceae	Alectryon connatus	grey birds-eye		С		2
plants	land plants	Sapindaceae	Alectryon diversifolius	scrub boonaree		С		1/1
plants	land plants	Sapindaceae	Alectryon subdentatus			С		1
plants	land plants	Sapindaceae	Arytera divaricata	coogera		С		1
plants	land plants	Sapindaceae	Cardiospermum halicacabum	C C	Y			1
plants	land plants	Sapindaceae	Cardiospermum halicacabum var. halicacabum		Y			1/1
plants	land plants	Sapindaceae	Cupaniopsis anacardioides	tuckeroo		С		2
plants	land plants	Sapindaceae	Dodonaea stenophylla			С		2/2
plants	land plants	Sapindaceae	Dodonaea viscosa subsp. burmanniana			С		2/2
plants	land plants	Sapotaceae	Planchonella cotinifolia var. pubescens			С		2/2
plants	land plants	Scrophulariaceae	Myoporum					1
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Kingdom	Class	Family	Scientific Name	Common Name	I	Q	А	Records
plants	land plants	Scrophulariaceae	Myoporum acuminatum	coastal boobialla		С		1
plants	land plants	Simaroubaceae	Ailanthus triphysa	white siris		С		1/1
plants	land plants	Smilacaceae	Smilax australis	barbed-wire vine		С		2
plants	land plants	Smilacaceae	Smilax glyciphylla	sweet sarsaparilla		С		1
plants	land plants	Solanaceae	Lycianthes shanesii			С		1/1
plants	land plants	Solanaceae	Solanum					1
plants	land plants	Solanaceae	Solanum americanum		Y			2/1
plants	land plants	Solanaceae	Solanum ellipticum	potato bush		С		2/2
plants	land plants	Solanaceae	Solanum furfuraceum			С		2/2
plants	land plants	Solanaceae	Solanum parvifolium subsp. parvifolium			С		2/2
plants	land plants	Solanaceae	Solanum seaforthianum	Brazilian nightshade	Y			1/1
plants	land plants	Solanaceae	Solanum torvum	devil's fig	Y			2/2
plants	land plants	Sparrmanniaceae	Corchorus trilocularis			С		1/1
plants	land plants	Sparrmanniaceae	Grewia latifolia	dysentery plant		С		1
plants	land plants	Sparrmanniaceae	Grewia savannicola			С		1/1
plants	land plants	Sterculiaceae	Brachychiton australis	broad-leaved bottle tree		С		1
plants	land plants	Sterculiaceae	Brachychiton rupestris			С		2/2
plants	land plants	Sterculiaceae	Sterculia quadrifida	peanut tree		С		2
plants	land plants	Stylidiaceae	Stylidium velleioides			С		1/1
plants	land plants	Thymelaeaceae	Pimelea cornucopiae			С		1/1
plants	land plants	Typhaceae	Typha					1
plants	land plants	Ulmaceae	Trema tomentosa var. aspera			С		2
plants	land plants	Urticaceae	Pipturus argenteus	white nettle		С		3/1
plants	land plants	Verbenaceae	Lantana camara	lantana	Y			2
plants	land plants	Verbenaceae	Phyla nodiflora	carpetweed		С		1
plants	land plants	Verbenaceae	Stachytarpheta jamaicensis	Jamaica snakeweed	Y			2/2
plants	land plants	Violaceae	Viola hederacea			С		1
plants	land plants	Vitaceae	Cissus oblonga			С		2
plants	land plants	Vitaceae	Cissus repens			С		1
plants	land plants	Vitaceae	Clematicissus opaca			С		1
, plants	land plants	Vitaceae	Tetrastigma nitens	shining grape		С		1
, plants	land plants	Xanthorrhoeaceae	Xanthorrhoea	551				1
plants	land plants	Xanthorrhoeaceae	Xanthorrhoea johnsonii			С		1/1
, plants	land plants	Xanthorrhoeaceae	Xanthorrhoea latifolia subsp. latifolia			С		4
plants	land plants	Zamiaceae	Macrozamia miquelii			Č		2
plants	uncertain	Indet.	Indet.			č		1
						-		

CODES

I - Y indicates that the taxon is introduced to Queensland and has naturalised.

Q - Indicates the Queensland conservation status of each taxon under the Nature Conservation Act 1992.
 The codes are Extinct (EX), Extinct in the Wild (PE), Critically Endangered (CR), Endangered (E), Vulnerable (V), Near Threatened (NT), Special Least Concern (SL) and Least Concern (C).

A - Indicates the Australian conservation status of each taxon under the *Environment Protection and Biodiversity Conservation Act 1999.* The values of EPBC are Extinct (EX), Extinct in the Wild (XW), Critically Endangered (CE), Endangered (E), Vulnerable (V) and Conservation Dependent (CD).

Records - The first number indicates the total number of records of the taxon (wildlife records and species listings for selected areas).

This number is output as 99999 if it equals or exceeds this value. A second number located after a / indicates the number of specimen records for the taxon.

This number is output as 999 if it equals or exceeds this value.

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Appendix C Survey sites

Survey site number	Survey Type	Survey period	RE	Habitat
AB1_20	Anabat	Pre wet 2020	8.12.7c	Mixed eucalypt open forest communities
AB3_20	Anabat	Pre wet 2020	Non-remnant	Non-remnant
AB2_20	Anabat	Pre wet 2020	11.12.1/11.12.13	Eucalyptus crebra woodland to open woodland
AB4_20	Anabat	Pre wet 2020	8.12.7c	Mixed eucalypt open forest communities
CAM8_20	Camera	Pre wet 2020	8.12.7c	Mixed eucalypt open forest communities
CAM3_20	Camera	Pre wet 2020	Non-remnant	Non-remnant
CAM4_20	Camera	Pre wet 2020	8.12.7c	Mixed eucalypt open forest communities
CAM7_20	Camera	Pre wet 2020	8.12.7c	Mixed eucalypt open forest communities
CAM5_20	Camera	Pre wet 2020	Non-remnant	Non-remnant
CAM1_20	Camera	Pre wet 2020	Non-remnant	Non-remnant
CAM2_20	Camera	Pre wet 2020	Non-remnant	Non-remnant
CAM6_20	Camera	Pre wet 2020	11.12.1/11.12.13	Eucalyptus crebra woodland to open woodland
QS19_20	Quaternary flora survey	Pre wet 2020	11.12.1	Eucalyptus crebra woodland to open woodland
QS12_20	Quaternary flora survey	Pre wet 2020	11.12.1	Eucalyptus crebra woodland to open woodland
QS15_20	Quaternary flora survey	Pre wet 2020	8.12.7c	Mixed eucalypt open forest communities
QS4_20	Quaternary flora survey	Pre wet 2020	11.12.1	Eucalyptus crebra woodland to open woodland
QS13_20	Quaternary flora survey	Pre wet 2020	11.12.1	Eucalyptus crebra woodland to open woodland
QS34_20	Quaternary flora survey	Pre wet 2020	11.12.1	Eucalyptus crebra woodland to open woodland
QS28_20	Quaternary flora survey	Pre wet 2020	Non-remnant	Non-remnant
QS21_20	Quaternary flora survey	Pre wet 2020	11.12.1/11.12.13	Eucalyptus crebra woodland to open woodland
QS1_20	Quaternary flora survey	Pre wet 2020	11.12.1	Eucalyptus crebra woodland to open woodland

Survey site number	Survey Type	Survey period	RE	Habitat
QS36_20	Quaternary flora survey	Pre wet 2020	Non-remnant	Non-remnant
QS16_20	Quaternary flora survey	Pre wet 2020	11.12.6a	Mixed eucalypt open forest communities
QS11_20	Quaternary flora survey	Pre wet 2020	11.12.6a	Mixed eucalypt open forest communities
QS33_20	Quaternary flora survey	Pre wet 2020	Non-remnant	Non-remnant
QS31_20	Quaternary flora survey	Pre wet 2020	Non-remnant	Non-remnant
QS7_20	Quaternary flora survey	Pre wet 2020	Non-remnant	Non-remnant
QS35_20	Quaternary flora survey	Pre wet 2020	Non-remnant	Non-remnant
QS5_20	Quaternary flora survey	Pre wet 2020	11.12.6a	Mixed eucalypt open forest communities
QS38_20	Quaternary flora survey	Pre wet 2020	Non-remnant	Non-remnant
QS17_20	Quaternary flora survey	Pre wet 2020	11.12.1	Eucalyptus crebra woodland to open woodland
QS2_20	Quaternary flora survey	Pre wet 2020	11.12.1/11.12.13	Eucalyptus crebra woodland to open woodland
QS22_20	Quaternary flora survey	Pre wet 2020	11.12.1/11.12.13	Eucalyptus crebra woodland to open woodland
QS24_20	Quaternary flora survey	Pre wet 2020	11.12.1/11.12.13	Eucalyptus crebra woodland to open woodland
QS14_20	Quaternary flora survey	Pre wet 2020	8.12.7c	Mixed eucalypt open forest communities
QS10_20	Quaternary flora survey	Pre wet 2020	11.12.1/11.12.13	Eucalyptus crebra woodland to open woodland
QS37_20	Quaternary flora survey	Pre wet 2020	Non-remnant	Non-remnant
QS8_20	Quaternary flora survey	Pre wet 2020	11.12.1/11.12.13	Eucalyptus crebra woodland to open woodland
QS6_20	Quaternary flora survey	Pre wet 2020	Non-remnant	Non-remnant
QS27_20	Quaternary flora survey	Pre wet 2020	8.12.7a/8.12.32/8 .12.9/8.12.23/8.3. 14	Mixed eucalypt open forest communities

Survey site number	Survey Type	Survey period	RE	Habitat
QS9_20	Quaternary flora survey	Pre wet 2020	11.12.1/11.12.13	Eucalyptus crebra woodland to open woodland
QS25_20	Quaternary flora survey	Pre wet 2020	11.12.1/11.12.13	Eucalyptus crebra woodland to open woodland
QS32_20	Quaternary flora survey	Pre wet 2020	Non-remnant	Non-remnant
QS3_20	Quaternary flora survey	Pre wet 2020	11.12.1/11.12.13	Eucalyptus crebra woodland to open woodland
QS18_20	Quaternary flora survey	Pre wet 2020	Non-remnant	Non-remnant
QS26_20	Quaternary flora survey	Pre wet 2020	Non-remnant	Non-remnant
QS20_20	Quaternary flora survey	Pre wet 2020	8.12.7c	Mixed eucalypt open forest communities
QS23_20	Quaternary flora survey	Pre wet 2020	Non-remnant	Non-remnant
SAT1_20	SAT	Pre wet 2020	8.12.7c	Mixed eucalypt open forest communities
SAT2_20	SAT	Pre wet 2020	8.12.7c	Mixed eucalypt open forest communities
SAT3_20	SAT	Pre wet 2020	11.12.1	Eucalyptus crebra woodland to open woodland
SAT4_20	SAT	Pre wet 2020	11.12.1/11.12.13	Eucalyptus crebra woodland to open woodland
SAT5_20	SAT	Pre wet 2020	Non-remnant	Non-remnant
SAT6_20	SAT	Pre wet 2020	Non-remnant	Non-remnant
SAT7_20	SAT	Pre wet 2020	Non-remnant	Non-remnant
SAT8_20	SAT	Pre wet 2020	Non-remnant	Non-remnant
SAT9_20	SAT	Pre wet 2020	11.12.6a	Mixed eucalypt open forest communities
SAT10_20	SAT	Pre wet 2020	Non-remnant	Non-remnant
SAT11_20	SAT	Pre wet 2020	11.12.1/11.12.13	Eucalyptus crebra woodland to open woodland
SAT12_20	SAT	Pre wet 2020	8.12.7a/8.12.32/8 .12.9/8.12.23/8.3. 14	Mixed eucalypt open forest communities
SAT14_20	SAT	Pre wet 2020	Non-remnant	Non-remnant
SAT13_20	SAT	Pre wet 2020	11.12.1/11.12.13	Eucalyptus crebra woodland to open woodland

Survey site number	Survey Type	Survey period	RE	Habitat
SAT16_20	SAT	Pre wet 2020	11.12.1/11.12.13	Eucalyptus crebra woodland to open woodland
SAT17_20	SAT	Pre wet 2020	11.12.1	Eucalyptus crebra woodland to open woodland
SAT15_20	SAT	Pre wet 2020	11.12.1	Eucalyptus crebra woodland to open woodland
SAT19_20	SAT	Pre wet 2020	Non-remnant	Non-remnant
SAT18_20	SAT	Pre wet 2020	Non-remnant	Non-remnant
SAT20_20	SAT	Pre wet 2020	Non-remnant	Non-remnant
HAB1_20	Fauna habitat	Pre wet 2020	8.12.7c	Mixed eucalypt open forest communities
HAB2_20	Fauna habitat	Pre wet 2020	8.12.7c	Mixed eucalypt open forest communities
HAB24_20	Fauna habitat	Pre wet 2020	8.12.7c	Mixed eucalypt open forest communities
HAB4_20	Fauna habitat	Pre wet 2020	11.12.2	Eucalyptus crebra woodland to open woodland
HAB8_20	Fauna habitat	Pre wet 2020	11.12.6a	Mixed eucalypt open forest communities
HAB16_20	Fauna habitat	Pre wet 2020	8.12.7a/8.12.9/8. 12.23/8.3.14	Mixed eucalypt open forest communities
HAB12_20	Fauna habitat	Pre wet 2020	11.12.6a	Mixed eucalypt open forest communities
HAB3_20	Fauna habitat	Pre wet 2020	11.12.1/11.12.6a	Eucalyptus crebra woodland to open woodland
HAB6_20	Fauna habitat	Pre wet 2020	11.12.1/11.12.6a	Eucalyptus crebra woodland to open woodland
HAB14_20	Fauna habitat	Pre wet 2020	11.12.1/11.12.6a	Eucalyptus crebra woodland to open woodland
HAB17_20	Fauna habitat	Pre wet 2020	11.12.1/11.12.6a	Eucalyptus crebra woodland to open woodland
HAB18_20	Fauna habitat	Pre wet 2020	11.12.2/11.12.13	Eucalyptus crebra woodland to open woodland
HAB19_20	Fauna habitat	Pre wet 2020	11.12.2/11.12.13	Eucalyptus crebra woodland to open woodland
HAB20_20	Fauna habitat	Pre wet 2020	11.12.2/11.12.13	Eucalyptus crebra woodland to open woodland
HAB15_20	Fauna habitat	Pre wet 2020	11.12.2/11.12.1	Eucalyptus crebra woodland to open woodland
HAB5_20	Fauna habitat	Pre wet 2020	non-rem	non-rem

Survey site number	Survey Type	Survey period	RE	Habitat
HAB7_20	Fauna habitat	Pre wet 2020	non-rem	non-rem
HAB9_20	Fauna habitat	Pre wet 2020	non-rem	non-rem
HAB10_20	Fauna habitat	Pre wet 2020	non-rem	non-rem
HAB11_20	Fauna habitat	Pre wet 2020	non-rem	non-rem
HAB21_20	Fauna habitat	Pre wet 2020	non-rem	non-rem
HAB25_20	Fauna habitat	Pre wet 2020	non-rem	non-rem
HAB22_20	Fauna habitat	Pre wet 2020	non-rem	non-rem
HAB23_20	Fauna habitat	Pre wet 2020	non-rem	non-rem
HAB13_20	Fauna habitat	Pre wet 2020	non-rem	non-rem
RA5_19_20	Rapid assessment	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
RA11_19	Rapid assessment	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
AB10_19	Anabat	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
CAM12_19	Camera trap	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
QS9_19	Quaternary survey	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
QS10_19	Quaternary survey	Pre wet 2019	8.12.9	Mixed eucalypt open forest communities
RA14_19	Rapid assessment	Pre wet 2019	8.12.9	Mixed eucalypt open forest communities
AS4_19	Active search	Pre wet 2019	11.12.1	Eucalyptus crebra woodland to open woodland
AB5_19	Anabat	Pre wet 2019	11.12.1	Eucalyptus crebra woodland to open woodland
H1_19	Harp trap	Post wet 2019	11.12.1	Eucalyptus crebra woodland to open woodland
H2_19	Harp trap	Post wet 2019	11.12.1	Eucalyptus crebra woodland to open woodland
BUS4_19	BUS survey	Pre wet 2019	8.12.7c	Mixed eucalypt open forest communities
AB13_19	Anabat	Pre wet 2019	8.12.7c	Mixed eucalypt open forest communities
CAM16_19	Camera trap	Pre wet 2019	8.12.7c	Mixed eucalypt open forest communities
H16_19	Harp trap	Pre wet 2019	8.12.7c	Mixed eucalypt open forest communities
RA20_19	Rapid assessment	Pre wet 2019	8.12.7c	Mixed eucalypt open forest communities
RA21_19	Rapid assessment	Pre wet 2019	8.12.7c	Mixed eucalypt open forest communities

Survey site number	Survey Type	Survey period	RE	Habitat
RA24_19	Rapid assessment	Pre wet 2019	8.12.7c	Mixed eucalypt open forest communities
RA25_19	Rapid assessment	Pre wet 2019	8.12.7c	Mixed eucalypt open forest communities
RA26_19	Rapid assessment	Pre wet 2019	8.12.7c	Mixed eucalypt open forest communities
RA27_19	Rapid assessment	Pre wet 2019	8.12.7c	Mixed eucalypt open forest communities
QS4_19	Quaternary survey	Pre wet 2019	11.12.2	Eucalyptus crebra woodland to open woodland
AS8_19	Active search	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
AS9_19	Active search	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
BUS1_19	BUS survey	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
BUS2_19	BUS survey	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
BUS6_19	BUS survey	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
AB14_19	Anabat	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
CAM13_19	Camera trap	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
H10_19	Harp trap	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
H11_19	Harp trap	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
H12_19	Harp trap	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
QS11_19	Quaternary survey	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
RA12_19	Rapid assessment	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
RA13_19	Rapid assessment	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
RA15_19	Rapid assessment	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
BUS7_19	BUS survey	Pre wet 2019	11.12.1	Eucalyptus crebra woodland to open woodland
RA28_19	Rapid assessment	Pre wet 2019	11.12.1	Eucalyptus crebra woodland to open woodland
AS1_19	Active search	Pre wet 2019	11.12.2	Eucalyptus crebra woodland to open woodland
AB11_19	Anabat	Pre wet 2019	11.12.2	Eucalyptus crebra woodland to open woodland
CAM14_19	Camera trap	Pre wet 2019	11.12.2	Eucalyptus crebra woodland to open woodland
CAM15_19	Camera trap	Pre wet 2019	11.12.2	Eucalyptus crebra woodland to open woodland

Survey site number	Survey Type	Survey period	RE	Habitat
H17_19	Harp trap	Pre wet 2019	11.12.2	Eucalyptus crebra woodland to open woodland
QS1_19	Quaternary survey	Pre wet 2019	11.12.2	Eucalyptus crebra woodland to open woodland
QS2_19	Quaternary survey	Pre wet 2019	11.12.2	Eucalyptus crebra woodland to open woodland
QS3_19	Quaternary survey	Pre wet 2019	11.12.2	Eucalyptus crebra woodland to open woodland
RA1_19	Rapid assessment	Pre wet 2019	11.12.2	Eucalyptus crebra woodland to open woodland
RA2_19	Rapid assessment	Pre wet 2019	11.12.2	Eucalyptus crebra woodland to open woodland
RA3_19	Rapid assessment	Pre wet 2019	11.12.2	Eucalyptus crebra woodland to open woodland
H3_19	Harp trap	Pre wet 2019	11.3.25	Riparian
QS8_19	Quaternary survey	Pre wet 2019	11.3.25	Riparian
RA6_19	Rapid assessment	Pre wet 2019	11.3.25	Riparian
RA9_19	Rapid assessment	Pre wet 2019	Non-remnant	Non-remnant
BUS3_19	BUS survey	Pre wet 2019	Non-remnant	Non-remnant
RA8_19	Rapid assessment	Pre wet 2019	11.12.1	Eucalyptus crebra woodland to open woodland
QS7_19	Quaternary survey	Pre wet 2019	11.12.1	Eucalyptus crebra woodland to open woodland
RA7_19	Rapid assessment	Pre wet 2019	11.12.1	Eucalyptus crebra woodland to open woodland
BUS10_19	BUS survey	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
QS6_19	Quaternary survey	Pre wet 2019	8.12.7c	Mixed eucalypt open forest communities
AS2_19	Active search	Pre wet 2019	11.12.6a	Mixed eucalypt open forest communities
BUS9_19	BUS survey	Pre wet 2019	11.12.6a	Mixed eucalypt open forest communities
CAM20_19	Camera trap	Pre wet 2019	11.12.6a	Mixed eucalypt open forest communities
QS5_19	Quaternary survey	Pre wet 2019	11.12.6a	Mixed eucalypt open forest communities
QS16_19	Quaternary survey	Pre wet 2019	11.12.6a	Mixed eucalypt open forest communities
RA29_19	Rapid assessment	Pre wet 2019	11.12.6a	Mixed eucalypt open forest communities

Survey site number	Survey Type	Survey period	RE	Habitat
BUS8_19	BUS survey	Pre wet 2019	11.12.4	Semi-evergreen Vine Thicket
AS7_19	Active search	Pre wet 2019	Non-remnant	Non-remnant
CAM21_19	Camera trap	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
H9_19	Harp trap	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
QS12_19	Quaternary survey	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
QS13_19	Quaternary survey	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
RA16_19	Rapid assessment	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
RA17_19	Rapid assessment	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
RA18_19	Rapid assessment	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
QS14_19	Quaternary survey	Pre wet 2019	8.12.9	Mixed eucalypt open forest communities
BUS5_19	BUS survey	Pre wet 2019	11.12.1	Eucalyptus crebra woodland to open woodland
H15_19	Harp trap	Pre wet 2019	Non-remnant	Non-remnant
RA22_19	Rapid assessment	Pre wet 2019	Non-remnant	Non-remnant
RA23_19	Rapid assessment	Pre wet 2019	Non-remnant	Non-remnant
RA10_19	Rapid assessment	Pre wet 2019	Non-remnant	Non-remnant
RA19_19	Rapid assessment	Pre wet 2019	Non-remnant	Non-remnant
QS15_19	Quaternary survey	Pre wet 2019	8.12.7c	Mixed eucalypt open forest communities
CAM19_19	Camera trap	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
RA32_19	Rapid assessment	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
RA33_19	Rapid assessment	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
AS3_19	Active search	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
AS10_19	Active search	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
BUS12_19	BUS survey	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
AB6_19	Anabat	Post wet 2019	8.12.7a	Mixed eucalypt open forest communities
AB9_19	Anabat	Post wet 2019	8.12.7a	Mixed eucalypt open forest communities
CAM9_19	Camera trap	Post wet 2019	8.12.7a	Mixed eucalypt open forest communities
CAM18_19	Camera trap	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
H4_19	Harp trap	Post wet 2019	8.12.7a	Mixed eucalypt open forest communities

Survey site number	Survey Type	Survey period	RE	Habitat
H5_19	Harp trap	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
H14_19	Harp trap	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
RA34_19	Rapid assessment	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
RA35_19	Rapid assessment	Pre wet 2019	8.12.7a	Mixed eucalypt open forest communities
AB7_19	Anabat	Pre wet 2019	11.12.6a	Mixed eucalypt open forest communities
AB8_19	Anabat	Pre wet 2019	11.12.6a	Mixed eucalypt open forest communities
CAM10_19	Camera trap	Pre wet 2019	11.12.6a	Mixed eucalypt open forest communities
CAM11_19	Camera trap	Pre wet 2019	11.12.6a	Mixed eucalypt open forest communities
H6_19	Harp trap	Pre wet 2019	11.12.6a	Mixed eucalypt open forest communities
H7_19	Harp trap	Pre wet 2019	11.12.6a	Mixed eucalypt open forest communities
RA4_19	Rapid assessment	Pre wet 2019	11.12.6a	Mixed eucalypt open forest communities
RA30_19	Rapid assessment	Pre wet 2019	11.12.6a	Mixed eucalypt open forest communities
RA31_19	Rapid assessment	Pre wet 2019	11.12.6a	Mixed eucalypt open forest communities

Appendix D Likelihood of occurrence – threatened species

Species	Common Name	NC Act Status		Habitat	Likelihood of Occurrence	Potential to be impacted ³
FLORA						
Cycas megacarpa		E	E	Found in woodland and open forest, often in conjunction with a grassy understory. Found in habitat dominated by <i>Eucalyptus crebra</i> and <i>Corymbia</i> <i>citriodora</i> .	Low. Although suitable habitat is present within the Site Boundary, all cycad specimens from the Development Footprint identified by Queensland Herbarium (19) were confirmed to be <i>Cycas</i> <i>terryana</i> . Cycads on neighbouring site (Clarke Creek Wind Farm) have also been confirmed as <i>C. terryana</i> .	Low
Cycas ophiolitica		E	E	Found on hills and slopes in sparse, grassy open forests, in association with <i>Corymbia dallachiana</i> , <i>Eucalyptus crebra</i> , and <i>Eucalyptus tereticornis</i> .	Low. Although suitable habitat is present within the Site Boundary, all cycad specimens from the Site Boundary identified by Queensland Herbarium (19) were confirmed to be <i>Cycas</i> <i>terryana</i> . Cycads on neighbouring site (Clarke Creek Wind Farm) have been confirmed as <i>C.</i> <i>terryana</i> .	Low
Denhamia megacarpa	Large-fruited Denhamia	E		Known from three genetically isolated subpopulations: Mackenzie, Junee Tableland and Newlands. Favours shallow, Cainozoic lateritic duricrusts on or near steep upper slopes at the edge of tablelands in association with <i>Acacia shirleyi</i> Maiden and/or <i>A. catenulata</i> RE 11.7.2, or immediately adjacent upon the tablelands		Low

³ Where the potential to be impacted was considered high, an assessment of the significance has been conducted (Section 9)

Species	Common Name	NC Act Status		Habitat	Likelihood of Occurrence	Potential to be impacted ³
				in woodland of <i>Eucalyptus crebra</i> and <i>Corymbia brachycarpa</i> (Halford and Jessup, 2020)		
Dichanthium queenslandicum	King Blue- grass	V	E	Occurs on black cracking clay in tussock grasslands mainly in association with other species of blue grasses (<i>Dichanthium spp.</i> and <i>Bothriochloa spp.</i>) but also with other grasses restricted to this soil type	Low. Suitable habitat absent from Site Boundary.	Low. Habitat is absent from Development Footprint.
Dichanthium setosum	Bluegrass		V	Associated species include White Box (<i>Eucalyptus albens</i>), Silver-leaved Ironbark (<i>Eucalyptus melanophloia</i>), Yellow Box (<i>Eucalyptus melliodora</i>), Manna Gum (<i>Eucalyptus viminalis</i>), Amulla (<i>Myoporum debile</i>), Purple Wire-grass (<i>Aristida ramosa</i>), Kangaroo Grass (<i>Themeda triandra</i>)	Low. Suitable habitat absent from Site Boundary.	Low
Eucalyptus raveretiana	Black ironbox		V	Occurs on the banks of rivers, creeks and other watercourses, on clayey or loamy soil. There are 23 recorded sites or subpopulations in two main areas of occurrence: Nebo to Ayr, and Apis Creek to Rockhampton. The total population is unknown. This species occurs within Burdekin and Fitzroy (Queensland) Natural Resource Management Regions.	Low. The Development Footprint is not within an area known to have this species. No suitable habitat in the Development Footprint.	Low. Habitat is absent from Development Footprint.
Marsdenia brevifolia (syn. Leichhardtia brevifolia)		V	V	This species has an apparent disjunct distribution in northern and central Queensland. Populations north of Rockhampton grow on serpentine rock outcrops or crumbly black soils derived from serpentine, in eucalypt woodland often with broad-leaved ironbark (<i>Eucalyptus fibrosa</i>) and <i>Corymbia xanthope</i> .	Low. No suitable habitat and no records within 30 km.	Low. Habitat is absent from Development Footprint.

Species	Common Name	NC Act Status		Habitat	Likelihood of Occurrence	Potential to be impacted ³
Omphalea celata		V	V	<i>Omphalea celata</i> occurs in fragmented semi evergreen vine thicket or araucarian microphyll vine forest, along watercourses in steep sided gorges and gullies on weathered metamorphic or granitic soils (Queensland Herbarium 2012). Associated species include <i>Eucalyptus raveretiana</i> , <i>E.</i> <i>tereticornis</i> , <i>Lysiphyllum hookeri</i> and <i>Ficus</i> <i>opposita</i> (Queensland Herbarium, 2012). Only known from three sites in central east Queensland - Hazlewood Gorge, near Eungella; Gloucester Island, near Bowen; and Cooper Creek in the Homevale Station area, north-west of Nebo.	Low. No suitable habitat in the Development Footprint. The closest records are 125 km north in Mackay. All records of this species are north of Mackay.	Low. Habitat is absent from Development Footprint.
Phaius australis	Lesser Swamp Orchid	E	E	Occurs in coastal wet heath/sedgeland wetlands, swampy grassland or swampy forest and often where Broad-leaved Paperbark or Swamp Mahogany are found.	Low. No swampy habitat in the Site Boundary	Low. Habitat is absent from Development Footprint.
Samadera bidwillii		V	V	Commonly occurs in lowland rainforest often with <i>Araucaria cunninghamii</i> or on rainforest margins, but it can also be found in other forest types, such as open forest and woodland, it is commonly found in areas adjacent to both temporary and permanent watercourses up to 510 m altitude. Commonly associated trees in the open forest and woodlands include spotted gum (<i>Corymbia citriodora</i>), grey gum (<i>Eucalyptus propinqua</i>), white mahogany (<i>E. acmenoides</i>), forest red gum (<i>E. tereticornis</i>), pink bloodwood (<i>Corymbia intermedia</i>), ironbark (<i>E. siderophloia</i>), gum topped box (<i>E. moluccana</i>), Gympie messmate (<i>E. cloeziana</i>) and broad- leaved ironbark (<i>E. fibrosa</i>) (Queensland Herbarium, 2012).	Moderate. Suitable habitat is within the Development Footprint but searches in the majority of the footprint did not record the species.	Low. No individuals were located during the detailed surveys suggesting no large populations occur within the Develpment Footprint

Species	Common Name	NC Act Status		Habitat	Likelihood of Occurrence	Potential to be impacted ³
Solanum adenophorum		E		<i>Solanum adenophorum</i> occurs mostly in brigalow woodland and on very gently inclined slopes. It also occurs in gidgee (<i>Acacia cambagei</i>) scrub on deep cracking clay soils (DES, 2019)	Low. Suitable habitat absent from Site Boundary	Low No suitable habitat in the Development Footprint.
BIRDS			1		·	
Calyptorhynchus lathami erebus	Glossy Black- cockatoo	V		Prefer woodland areas dominated by she-oak <i>Allocasuarina</i> , or open sclerophyll forests and woodlands with a stratum of <i>Allocasuarina</i> beneath <i>Eucalyptus</i> , <i>Corymbia</i> or <i>Angophora</i> . Glossy black- cockatoos have also been observed in mixed <i>Allocasaurina</i> , <i>Casuarina</i> , cypress <i>Callitris</i> and brigalow <i>Acacia harpophylla</i> woodland assemblages.	Moderate. Suitable habitat was present within the Site Boundary.	Moderate. Some suitable habitat found within the Site Boundary.
Epthianura crocea	Capricorn Yellow Chat	E	CE	The Capricorn yellow chat is known to occur at three localities - Curtis Island, Torilla Plain and the Fitzroy Delta and is most abundant at Torilla Plain. Habitat consist of wetlands and associated grasslands on seasonally inundated marine plains. These wetlands have shallow braided channels and depressions with a mosaic of dense sedge-beds, grasslands, tall samphire and areas of mud and/or shallow water	Low due to absence of habitat within the Site Boundary.	Low. Habitat is absent from Development Footprint.
Falco hypoleucos	Grey Falcon	V	V	Usually restricted to shrubland, grassland and wooded watercourses of arid and semi-arid regions, although it is occasionally found in open woodlands near the coast. Also occurs near wetlands where surface water attracts prey.	Moderate. Marginal habitat is present within the Site Boundary but the closest record to the Site Boundary is from 1910 near St Lawrence. Bird surveys and BUS surveys did not detect this species.	Low.

Species	Common Name	NC Act Status		Habitat	Likelihood of Occurrence	Potential to be impacted ³
Hirundapus caudacutus	White-throated Needletail	V	V, MT	Migratory aerial species, found in Australian Eastern states and Territories.	High. This species has been confirmed within the Site Boundary.	High.
Apus pacificus	Fork-tailed Swift	SLC	MT	Migratory species found over much of Australia. Mostly occur over dry or open habitats, including riparian woodlands, open farmlands, foraging aerially between 1m and 300m above the ground.	High. This species has been confirmed within the Site Boundary.	High.
Botaurus poiciloptilus	Australasian Bittern	E	E	Freshwater wetlands, occasionally estuarine; prefers heavy vegetation- shrubbery, reedbeds, sedges.	Low. No preferred habitat within the Site Boundary.	Low. Habitat is absent from Development Footprint.
Cuculus optatus	Oriental Cuckoo	SLC	MT	Found in many wooded habitats (such as open and dry woodland and forest) with a range of understoreys from grasses to shrubs or heath. Sometimes found near clearings and in recently logged or burnt forests. Found in farmland with some trees, orchards, vineyards and urban parks and gardens.	Moderate, suitable open woodland and cleared habitat is found within the Site Boundary.	Low. This species is a very rare visitor to Australia and is not likely to use the Development Footprint often.
Erythrotriorchis radiatus	Red Goshawk	V	E	Occurs in coastal and sub-coastal areas in wooded and forested lands of tropical and warm-temperate Australia. Is sparsely dispersed across these areas. Prefer a mosaic of vegetation types, a large population of birds as a source of food, and permanent water, and are often found in riparian habitats along or near watercourses or wetlands.	Low. This species has marginal habitat within the Development Footprint but requires permanent water for itself and its prey. No natural permanent water occurs in the Site Boundary. Small farm dams may provide some limited habitat. Surveys did not record this species. Few records of this species occur in the region.	Low. Good quality habitat with permanent water is not present in the Site Boundary.
Gallinago hardwickii	Latham's Snipe	SLC	МТ	Soft wet ground or shallow water with tussocks and other green or dead growth. Wet parts of paddocks, seepage below dams, irrigated areas, scrub or open woodland from sea level to alpine bogs over 2000 m	Low. Some habitat occurs near farm dams but this is marginal.	Low due to absence of habitat in

Species	Common Name	NC Act Status		Habitat	Likelihood of Occurrence	Potential to be impacted ³
				above sea level, samphire on salt marshes and mangrove fringes.		Development Footprint.
Geophaps scripta scripta	Squatter Pigeon (southern)	V	V	Occurs mostly in grassy woodlands and open forests dominated by eucalypts, usually with ready access to water.	High. This species has been confirmed within the Site Boundary.	High.
Neochmia ruficauda ruficauda	Star Finch (eastern), Star Finch (southern)	E	E	Inhabits tall grassbeds and reedbeds associated with watercourses, swamps. It may be found in grassy woodlands, open forests, and mangroves. Habitat condition varies seasonally.	Low. No suitable habitat within the Development Footprint.	Low. No habitat in Development Footprint.
Monarcha melanopsis	Black-faced Monarch	SLC	MT	The Black-faced Monarch mainly occurs in rainforest ecosystems. It is also sometimes found in nearby open eucalypt forests (mainly wet sclerophyll forests), especially in gullies with a dense, shrubby understorey as well as in dry sclerophyll forests and woodlands, often with a patchy understorey	Low. No habitat in the Development Footprint.	Low. No habitat in the Development Footprint.
Monarcha trivirgatus	Spectacled Monarch	SLC	МТ	The Spectacled Monarch prefers thick understorey in rainforests, wet gullies and waterside vegetation, as well as mangroves.	Low. No preferred habitat within the Site Boundary.	Low. No preferred habitat within the Site Boundary.
Motacilla flava	Yellow Wagtail	SLC	MT	Regular summer migrant to coastal Australia, especially Darwin to Broome, but also north eastern Queensland from November to April. Found in short grass and bare ground, swamp margins, sewage ponds, saltmarshes, playing fields, airfields, ploughed land and town lands (Pizzey and Knight, 2003).	Low. No preferred habitat within the Site Boundary.	Low. No preferred habitat within the Site Boundary.

Species	Common Name	NC Act Status		Habitat	Likelihood of Occurrence	Potential to be impacted ³
Myiagra cyanoleuca	Satin Flycatcher	SLC	MT	The Satin Flycatcher is found in tall forests, preferring wetter habitats such as heavily forested gullies, but not rainforests.	High. This species has been confirmed within the Site Boundary.	Low. This species is common and occurs in a wide variety of habitats.
Ninox strenua	Powerful Owl	V		The Powerful Owl requires large tracts of forest or woodland habitat but can occur in fragmented landscapes as well. The species breeds and hunts in open or closed sclerophyll forest or woodlands and occasionally hunts in open habitats. It roosts by day in dense vegetation. Powerful Owls nest in large tree hollows (at least 0.5 m deep), in large eucalypts (diameter at breast height of 80-240 cm) that are at least 150 years old.	High. This species has been confirmed within the Site Boundary.	Moderate. This is a forest owl that is unlikely to be impacted by collisions with turbines. The removal of a small amount of habitat is not likely to impact it significantly.
Pandion haliaetus	Osprey	SLC	MT	Eastern Ospreys occur in littoral and coastal habitats and terrestrial wetlands of tropical and temperate Australia and offshore islands. They are mostly found in coastal areas but occasionally travel inland along major rivers.	Low. No preferred habitat within the Site Boundary.	Low.
Poephila cincta cincta	Black-throated finch (southern)	E	E	Occurs mainly in grassy, open woodlands and forests, typically dominated by <i>Eucalyptus, Corymbia</i> and <i>Melaleuca</i> , and occasionally in tussock grasslands or other habitats, often along or near watercourses, or in the vicinity of water.	Low. Some suitable habitat in the form of grassy woodlands are in the Development Footprint but permanent water and grassy areas near permanent water are only present near cattle infrastructure. No recent records within 100 km.	Moderate.

Species	Common Name	NC Act Status		Habitat	Likelihood of Occurrence	Potential to be impacted ³
Rhipidura rufifrons	Rufous Fantail	SLC	MT	In east and south-east Australia, the Rufous Fantail mainly inhabits wet sclerophyll forests, often in gullies dominated by eucalypts.	High. This specesi was recorded within the Development Footprint.	Low. Suitable habitat occurs in isolated patches.
Rostratula australis	Australian Painted snipe	V	V	The Australian Painted Snipe is usually found in shallow inland wetlands, either freshwater or brackish, that are either permanently or temporarily filled.	Moderate. marginal habitat occurs within the Site Boundary But no significant habitat was found within the Project Footprint.	Low. Suitable habitat would be avoided.
REPTILES						
Delma torquata	Collared Delma	V	V	Inhabiting microhabitat of small rocks and leaf litter within eucalypt-dominated woodlands and open forests in Queensland. Common prey items include cockroaches, insects and spiders; however, some species have been captured within subterranean termite colonies. The species is endemic to Queensland with fragmented colonies known to occur within the Bunya Mountains, Blacktown Tablelands National Park, Expedition National Park, Western Creek near Millmerran and the Toowoomba Range. No records occur north of Rockhampton. The Development Footprint is outside the modelled distribution of the species (DAWE, 2020f).	Low. This Development Footprint is outside the DAWE modelled distribution for this species.	Low. This species is unlikely to occur in the Development Footprint.
Denisonia maculata	Ornamental Snake	V	V	Known to inhabit Brigalow regions in Queensland. Core distribution in the drainage systems of the Fitzroy and Dawson Rivers. Preferred habitat is within, or close to, its prey – frogs. The species is known to prefer woodlands and open forests associated with moist areas.	Low. This species requires cracking clay soils which are not mapped as occurring within the Development Footprint.	Low. Suitable habitat (if present) will be restricted to the low altitudes and would be avoided if found. No habitat was found

Species	Common Name	NC Act Status		Habitat	Likelihood of Occurrence	Potential to be impacted ³
						during the detailed habitat surveys,
Egernia rugosa	Yakka Skink	V	V	Known to inhabit open woodland and scrub within Mulga and Brigalow, preferring cavities under and between partially buried logs and rocks, and abandoned animal burrows.	Low. The majority of the records of this species are south of Rockhampton in the south of the Brigalow Belt. There is a small amount of suitable habitat on land zone 3 in the Development Footprint.	Low. A spotter catcher will check habitat features before they are impacted, relocate habitat features from the Development Footprint where possible, and ensure injury to Yakka Skink is avoided during clearing.
Elseya albagula	Southern Snapping Turtle	E	CE	The white-throated snapping turtle is only found in the Burnett, Fitzroy, Raglan and Mary river drainages of south-east Queensland. It prefers permanent flowing water habitats where there are suitable shelters and refuges (e.g. fallen trees).	Low. Although connectivity to suitable habitat exists, presence of suitable habitat was not identified in Site Boundary.	Low.
Rheodytes leukops	Fitzroy River Turtle	V	V	Found in deep pools associated with shallow fast flowing riffles within the Fitzroy River drainage area.	Low. Although connectivity to suitable habitat exists, presence of suitable habitat was not identified in Site Boundary.	Low.
MAMMALS				1		1

Species	Common Name	NC Act Status		Habitat	Likelihood of Occurrence	Potential to be impacted ³
Chalinolobus dwyeri	Large-eared Pied Bat	V	V	Caves and mines in dry sclerophyll forests and woodlands as well as higher altitude moist eucalypt forest and edges of rainforest.	Moderate. Apart from a few records in Shoalwater Bay Training Area, all the records in Queensland are centred around Carnarvon and Expedition National Parks. This species was not trapped or recorded on bat detectors.	Low.
Dasyurus hallucatus	Northern Quoll	E	E	Found in a range of open woodland and open forest types preferring rocky areas.	Low. Suitable habitat was identified in Site Boundary but no historical records are within 50 km of the Development Footprint. All rock crevices within surveyed areas were checked for scats and none were recorded. Cameras did not detect the species.	Low
Macroderma gigas	Ghost Bat	V	V	Occurs in a wide range of habitats in Tropical Australia, including rainforest, monsoon and vine scrub, and open woodlands. This species requires undisturbed caves for disused mineshafts for roosting. Breeding roosts located in Mt Etna and Cape Hillsborough in Mackay.	Low. No records within 100 km. Mackay and Rockhampton populations do no mix and not records of the species occur between the two. The species was not captured and not recorded on the bat detectors. No suitable caves within the Development Footprint.	Low
Nyctophilus corbeni	Corben's Long-eared Bat	V	V	Throughout inland Queensland, the species habitat is dominated by various Eucalyptus and Bloodwood species, and various types of tree Mallee. This species distribution is south of Bundaberg.	Low. This species current distribution is south of Bundaberg.	Low.
Petauroides volans	Greater Glider	E	V	Greater Glider occurs in open woodlands and open forests in eastern Australia.	High. This species has been confirmed within the Site Boundary.	Moderate
Phascolarctos cinereus	Koala	V	V	The Koala occurs in Eucalypt woodlands and forests throughout eastern Australia and may prefer certain Eucalypt species within any local or regional area.	High. This species has been confirmed within the Site Boundary.	High.

Species	Common Name	NC Act Status		Habitat	Likelihood of Occurrence	Potential to be impacted ³
Pteropus poliocephalus	Grey-headed Flying-fox		V	Occurs in a range of habitats including subtropical and temperate rainforests, dry and wet sclerophyll forests, Banksia woodland, heaths and Melaleuca swamps.	Low. Although habitat is present for this species, the most northly roost for this species is just north of Bundaberg and the Development Footprint is outside the current range of the species.	Low.
Xeromys myoides	Water Mouse	V	V	In central south Queensland, has been found in the high inter-tidal zone in tall, closed fringing mangrove forest containing only <i>Ceriops tagal</i> and/or <i>Bruguiera sp.</i>	Low due to the absence of preferred habitat within the Site Boundary.	Low.
INSECTS						
Jalmenus eubulus	Pale Imperial Hairstreak	V		Only known to breed in old-growth forest or woodland. Suitable habitat is dominated by brigalow, <i>Acacia harpophylla</i> and Buloke, <i>Casuarina cristata</i> on clay soils on flat to gently undulating plains, usually with scattered emergent euclypts such as Poplar Box, <i>Eucalyptus populnea</i> and low trees of Wilga, <i>Geijera</i> <i>parviflora</i>	Low due to the absence of preferred habitat within the Site Boundary.	Low.
Sources: DAWE (2016), DEHP (2016b), (DAWE, 2019b) and OEH (2012) unless otherwise stated. Status: E: Endangered, V: Vulnerable, MT: Migratory Terrestrial, SLC: Special Least Concern ikelihood of Occurrence: Low- no suitable habitat present, Moderate - suitable species habitat present, High - suitable species habitat present and has previously been recorded within 5km or species has een recorded during field survey. Note - Aquatic and marine species were not included in the table due to the limited impact of the development on aquatic environment)						

Appendix E Quaternary survey results

State-mapped vegetation communities compared with ground-truthed results

Quaternary	Mapped RE	Results of field sur	VM status		
site		Ground-truthed RE/drone & aerial interpretation	Vegetation community	(ground-truthed REs)	
Spring 2019 s	urvey				
Q1	11.12.1 - Remnant	11.12.1 – Remnant	<i>Eucalyptus crebra</i> woodland to open woodland	Least concern	
Q2	11.12.2 / 11.12.1 - Remnant	11.3.25 – Remnant	Riparian Vegetation	Least concern	
Q3	11.12.2 / 11.12.13 - Remnant	11.12.1 – Remnant	<i>Eucalyptus crebra</i> woodland to open woodland	Least concern	
Q4	11.12.2 - Remnant	11.12.1 – Remnant	<i>Eucalyptus crebra</i> woodland to open woodland	Least concern	
Q5	11.12.6a - Remnant	11.12.6a – Remnant	Mixed Eucalypt Vegetation Communities	Least concern	
Q6	11.12.6a - Remnant	8.12.16 – Remnant/ High Value Regrowth	Semi-Evergreen Vine Thicket	Of concern	
Q7	11.12.2 / 11.3.4 - Remnant	11.12.2 / 11.12.1/ 11.3.25 - Regrowth	Mixed Eucalypt Vegetation Communities	Least concern	
Q8	11.3.25 - Remnant	11.3.25 - Regrowth	Riparian Vegetation	Least concern	
Q9	8.12.7a / 8.12.9 / 8.12.23 / 8.3.14 - Remnant	8.12.7– Remnant	Mixed Eucalypt Vegetation Communities	Least concern	
Q10	8.12.9 / 8.3.14 - Remnant	8.12.9 / 8.3.14– Remnant	Mixed Eucalypt Vegetation Communities	Least concern	
Q11	8.12.7a / 8.12.9 / 8.12.23 / 8.3.14 - Remnant	8.12.32 – Remnant	Mixed Eucalypt Vegetation Communities	Least concern	
Q12	8.12.7a / 8.12.9 / 8.12.23 / 8.3.14 - Remnant	8.12.7 – Remnant	Mixed Eucalypt Vegetation Communities	Least concern	
Q13	8.12.7a / 8.12.9 / 8.12.23 / 8.3.14 (Remnant)	8.12.23 / 8.12.7 – Remnant	Wetland / Alluvial Plain	Of concern	
Q14	8.12.9 / 8.3.14 - Remnant	8.12.9 - Remnant	Mixed Eucalypt Vegetation Communities	Least concern	
Q15	8.12.7c - Remnant	8.12.7c - Remnant	Mixed Eucalypt Vegetation Communities	Least concern	
Q16	11.12.6a – Remnant	11.12.6a - Remnant	Mixed Eucalypt Vegetation Communities	Least concern	

Quaternary	Mapped RE	Results of field surv	/ey	VM status (ground-truthed REs)	
site		Ground-truthed RE/drone & aerial interpretation	Vegetation community		
Spring 2020 s	urvey				
Q1	11.2.1 - Remnant	11.2.1 - Remnant	<i>Eucalyptus crebra</i> woodland to open woodland	Least concern	
Q2	11.12.1/11.12.13 - Remnant	11.12.1 - Remnant	<i>Eucalyptus crebra</i> woodland to open woodland	Least concern	
Q3	11.12.1/11.12.13 - Remnant	11.12.1 - Remnant	<i>Eucalyptus crebra</i> woodland to open woodland	Least concern	
Q4	11.12.1- Remnant	11.12.1 - Remnant	<i>Eucalyptus crebra</i> woodland to open woodland	Least concern	
Q5	11.12.6a - Remnant	11.12.6a - Remnant	Mixed Eucalypt Vegetation Communities	Least concern	
Q6	Category R	18.12.7 - Remnant	Mixed Eucalypt Vegetation Communities	Least concern	
Q7	Non-remnant	11.12.6a	Mixed Eucalypt Vegetation Communities	Least conern	
Q8	11.12.1 - Remnant	11.12.1 - Remnant	<i>Eucalyptus crebra</i> woodland to open woodland	Least concern	
Q9	11.12.1/11.12.13 – Non- remnant	11.12.13 – Non- remnant	<i>Eucalyptus crebra</i> woodland to open woodland	Least concern	
Q10	11.12.1/11.12.13 - Remnant	11.3.25 - Remnant	Riparian Vegetation	Least concern	
Q11	11.12.6a - Remnant	11.12.6a - Remnant	Mixed Eucalypt Vegetation Communities	Least concern	
Q12	11.12.1 - Remnant	11.12.1 - Remnant	<i>Eucalyptus crebra</i> woodland to open woodland	Least concern	
Q13	11.12.1 - Remnant	11.12.1 - Remnant	<i>Eucalyptus crebra</i> woodland to open woodland	Least concern	
Q14	8.12.7c - Remnant	8.12.7 - Remnant	Mixed Eucalypt Vegetation Communities	Least concern	
Q15	8.12.7c - Remnant	8.12.7c – Remnant (northern section non- remnant)	Mixed Eucalypt Vegetation Communities	Least concern	
Q16	11.12.6a - Remnant	11.12.6a - Remnant	Mixed Eucalypt Vegetation Communities	Least concern	
Q17	11.12.1 - Remnant	11.12.1 - Remnant	<i>Eucalyptus crebra</i> woodland to open woodland	Least concern	
Q18	Non-remnant	Non-remnant			
			woodland to open		

Quaternary	Mapped RE	Results of field surv	VM status	
site		Ground-truthed RE/drone & aerial interpretation	Vegetation community	(ground-truthed REs)
Q19	11.12.1 - Remnant	11.12.1 - Remnant	<i>Eucalyptus crebra</i> woodland to open woodland	Least concern
Q20	18.12.7c - Remnant	18.12.7c - Remnant	Mixed Eucalypt Vegetation Communities	Least concern
Q21	11.12.1/11.12.13 - Remnant	11.12.6 – Remnant	Mixed Eucalypt Vegetation Communities	Least concern
Q22	11.12.1/11.12.13 - Remnant	11.12.6 – Remnant	Mixed Eucalypt Vegetation Communities	Least concern
Q23	Non-remnant	8.12.7a - Regrowth	Mixed Eucalypt Vegetation Communities	Least concern
Q24	11.12.1/11.12.13 - Remnant	11.12.13 - Remnant	<i>Eucalyptus crebra</i> woodland to open woodland	Least concern
Q25	11.12.1/11.12.13 - Remnant	11.12.1 - Remnant	<i>Eucalyptus crebra</i> woodland to open woodland	Least concern
Q26	Non-remnant	18.12.7c	Mixed Eucalypt Vegetation Communities	Least concern
Q27	18.12.1 - Remnant	18.12.5 - Remnant	Mixed Eucalypt Vegetation Communities	Least concern
Q28	Non-remnant	11.12.1 – Non- remnant	<i>Eucalyptus crebra</i> woodland to open woodland	Least concern
Q31	Non-remnant	Non-remnant	Non-remnant	Non-remnant
Q32	Non-remnant	11.12.13 - Remnant	<i>Eucalyptus crebra</i> woodland to open woodland	Least concern
Q33	Non-remnant	11.12.13 - Remnant	<i>Eucalyptus crebra</i> woodland to open woodland	Least concern
Q34	11.12.1 - Remnant	11.12.1 - Remnant	<i>Eucalyptus crebra</i> woodland to open woodland	Least concern
Q35	Non-remnant	11.12.6 - Regrowth	Mixed Eucalypt Vegetation Communities	Least concern
Q36	Non-remnant	Non-remnant		

Appendix F Vegetation communities within site boundary

Vegetation Community 1: Eucalyptus crebra Woodland to Open Woodland

This vegetation community occurs on shallow soils along ridgelines and hill slopes within the eastern and southern extent of the Development Footprint. Due to the level of disturbance (including historical clearing and selective logging/thinning, current land use through grazing and competition through incursion of weeds and non-native pasture species), this community is generally in poor condition.

This vegetation community forms most of the western slopes of the Project site. The canopy layer in this community is dominated by *Eucalyptus crebra*, with variable-barked bloodwood (*Corymbia erythrophloia*), pink bloodwood (*C. intermedia*), white mahogany (*E. acmenoides*) and spotted gum (*C. citriodora*) occurring as associated species. Small areas within this community are dominated by silver-leaved ironbark (*E. melanophloia*), however not to the extent to which it would be delineated as a separate community/regional ecosystem. Carbeen (*Corymbia tessellaris*) and kurrajong (*Brachychiton populneus*) also occur sparsely (Plate 5-2). Canopy height ranges from 15 - 18 m with a foliage projective cover (FPC) of 10 - 30%. Subcanopy species recorded included *Acacia crassa*, *Breynia oblongifolia*, *Euroschinus falcatus*, *Alphitonia excelsa*, juvenile *Eucalyptus crebra*, *Gomphocarpus physocarpus* and *Lantana camara**.

The shrub layer within this community was sparse to non-existent largely due to grazing and prolonged drought conditions in the period leading up to the survey.

This vegetation community is analogous to the following REs:

- RE 11.12.1 *Eucalyptus crebra* woodland on igneous rocks (Least Concern RE)
- RE 11.12.13 *Eucalyptus crebra, Corymbia* spp., *E. acmenoides* woodland on igneous rocks. Coastal hills (Least Concern RE).

These community are not listed as TECs under the EPBC Act; however they do provide habitat for EPBClisted threatened species confirmed to be present within the Site Boundary i.e., Koala, Greater Glider, Squatter Pigeon.





Plate 12-1 Eucalyptus crebra woodland community.

Vegetation Community 2: Riparian Vegetation

This vegetation community occurs along fringing levies and banks of streams along watercourses and drainage lines (Plate 5-3). It is dominated by Queensland blue gum (*E. tereticornis*), river she-oak (*Casuarina cunninghamiana*) and tea-tree (*Melaleuca* spp.).

Although generally disturbed due to land use practices, this vegetation community was relatively intact across the Site Boundary with a moderate degree of connectivity and biodiversity values. Watercourses and drainage lines within the western extent of the Site Boundary were in poorer condition due to more extensive historical land clearing and intense grazing pressure.

Dominant canopy species includes Queensland blue gum (*E. tereticornis*), river she-oak (Casuarina cunninghamiana), paperbark tea-tree (*Melaleuca fluviatilis*) with broad-leaved paperbark (*Melaleuca viridiflora*) and flaxleaf paperbark (*Melaleuca fluviatilis*) also associated. Canopy height ranges from 10 - 22 m with a FPC of 10 - 30%. The shrub layer of this community is highly disturbed, in particularly due to high levels of incursion by invasive flora species, in particular, lantana (*Lantana camara**).

This vegetation community is analogous to the following RE:

• RE 11.3.25 - *Eucalyptus tereticornis* or *E. camaldulensis* woodland fringing drainage lines. (Least Concern RE).

These community is not listed as a TEC under the EPBC Act; however it does provide habitat for EPBClisted threatened fauna species confirmed to be present within the Site Boundary i.e., Koala, Greater Glider, Squatter Pigeon.



Plate 12-2 Riparian vegetation community.

Vegetation Community 3: Mixed Eucalypt Vegetation Communities

Given the size and steep terrain, a large proportion of vegetation within the Site Boundary was not able to be surveyed. However, most of the vegetation surveyed has been ground-truthed as a heterogeneous community dominated by a range of *Eucalyptus* and *Corymbia* species comprising the following REs:

- RE 8.12.32 Corymbia intermedia +/- E. portuensis +/- E. exserta open forest with areas of Allocasuarina spp. +/- Banksia integrifolia open forest on high ranges, on Mesozoic to Proterozoic igneous rocks (VM Status – Least concern)
- RE 8.12.7- Corymbia citriodora +/- Eucalyptus portuensis +/- E. drepanophylla (or E. crebra) open forest on hill slopes and undulating plateaus, on Mesozoic to Proterozoic igneous rocks (Least Concern (VM Status Least concern). This RE includes the vegetation community 8.12.7c which is described as *Eucalyptus drepanophylla* low woodland to open forest (6-20m tall)

- RE 8.12.9 *Eucalyptus tereticornis* +/- *Corymbia intermedia* +/- *Lophostemon suaveolens* woodland on undulating uplands, on Mesozoic to Proterozoic igneous rocks (VM Status Least Concern)
- RE 11.12.6 *Corymbia citriodora* open forest on igneous rocks (granite) (VM Status Least Concern)
- RE 8.12.23 *Eucalyptus moluccana* woodland on elevated tablelands on Mesozoic to Proterozoic igneous rocks (VM Status Of Concern).

These communities are not listed as TECs under the EPBC Act; however they do provide habitat for EPBClisted threatened fauna species confirmed to be present within the Site Boundary i.e., Koala, Greater Glider, Squatter Pigeon.

Vegetation Community 4: Semi-Evergreen Vine Thicket

This vegetation community consists of deciduous to semi-evergreen vine thicket with an emergent layer dominated by broad-leaved bottletree (*Brachychiton australis*) and semi-evergreen vine thicket species. Canopy/shrub cover is about 70-85% with height ranging from 5 to 10 m (Plate 5-5). It is generally restricted to hillsides, and typically observed in small pockets within sheltered gullies on western-facing slopes along ridgelines. The dense nature of this community and the fire-retardant properties of the species found within creates a microhabitat that is relatively resistant to high-level disturbance. The community was often found on poor, rocky soil but with high levels of organic matter/leaf litter (Plate 5-5). This community could potentially provide habitat for several threatened species including *Samadera bidwillii*.

This community generally occurs within the northern and southern extent of the Site Boundary with a significant patch of RE 11.12.4 occurring within the development corridor. This vegetation community is analogous to the following REs:

- RE 11.12.4 Semi-evergreen vine thicket and microphyll vine forest on igneous rocks (Least Concern RE under the VM Act)
- RE 8.12.16 Deciduous to semi-evergreen microphyll vine thicket +/- Brachychiton spp. +/-Araucaria cunninghamii emergents, of foothills and uplands (western areas) on Mesozoic to Proterozoic igneous rocks (Of Concern RE under the VM Act).

These two SEVT REs are not included within the EPBC Act listing for the Semi-evergreen Vine Thickets of the Brigalow Belt North and Nandewar Bioregions TEC.



Plate 12-3 Semi-evergreen vine thicket

Vegetation Community 5: Wetland / Alluvial Plain Communities

This vegetation community consists of woodland to open forest dominated by Queensland blue gum (*Eucalyptus tereticornis*) with narrow-leaved ironbark (*E. crebra*), poplar gum (*E. platyphylla*), carbeen (*E. tessellaris*), pink bloodwood (*C. intermedia*) and swamp box (*Lophostemon suaveolens*) also associated and associated native grassland areas dominated by blady grass (*Imperata cylindrica*). Canopy cover is about 30% with canopy height ranging from 15 to 23 m. This community occurs in poorly drained areas associated with drainage depressions, channels and watercourses in upland areas within the eastern extent of the Site Boundary. This vegetation community was been found to contain evidence of several threatened fauna and flora species (including Greater Gliders, Koala and *Cycas megacarpa*). This vegetation community is analogous to the following REs:

- RE 8.12.9 *Eucalyptus tereticornis* +/- *Corymbia intermedia* +/- *Lophostemon suaveolens* woodland on undulating uplands on Mesozoic to Proterozoic igneous rocks (VM Status Least concern)
- RE 8.3.14 *Ischaemum australe* and/or *Imperata cylindrica* and/or *Sorghum nitidum* forma *aristatum* tussock grassland on drainage channels in gently undulating upland areas (VM Status Of Concern).

These communities are not listed as TECs under the EPBC Act. This vegetation community has been found to contain evidence of several threatened fauna and flora species (including Greater Gliders and Koala).

Appendix G Fauna species list

Group	Scientific name	Common name	Status
Amphibia	Limnodynastes fletcheri	Fletcher's Frog	
Amphibia	Litoria caerulea	Green Tree Frog	
Amphibia	Litoria fallax	Eastern Sedge Frog	
Amphibia	Litoria inermis	Bumpy Rocket Frog	
Amphibia	Litoria latopalmata	Broad-palmed Rocket Frog	
Amphibia	Litoria rubella	Desert Tree Frog	
Amphibia	Litoria wilcoxii	Eastern Stony Creek Frog	
Amphibia	Limnodynastes peronii	Striped Marsh Frog	
Amphibia	Platyplectrum ornatum	Ornate Burrowing Frog	
Amphibia	Pseudophryne coriacea	Red-backed Broodfrog	
Amphibia	Pseudophryne majori	Great Brood Frog	
Amphibia	Rhinella marina	Cane Toad	Invasive
Amphibia	Uperoleia rugosa	Chubby Gungan	
Arachnida	Latrodectus hasselti	Red Back Spider	
Aves	Acanthiza apicalis	Inland Thornbill	
Aves	Acanthiza nana	Yellow Thornbill	
Aves	Acanthiza reguloides	Buff-rumped Thornbill	
Aves	Accipiter fasciatus	Brown Goshawk	
Aves	Acrocephalus australis	Australian Reed-Warbler	
Aves	Aegotheles cristatus	Australian Owlet-nightjar	
Aves	Alectura lathami	Australian Brush-turkey	
Aves	Anas superciliosa	Pacific Black Duck	
Aves	Anhinga novaehollandiae	Australasian Darter	
Aves	Anthus novaeseelandiae	Australasian Pipit	
Aves	Aprosmictus erythropterus	Red-winged Parrot	
Aves	Apus pacificus	Fork-tailed Swift	EPBC Act Migratory / Marine NC Act SLC
Aves	Aquila audax	Wedge-tailed Eagle	
Aves	Ardea pacifica	White-necked Heron	
Aves	Ardeotis australis	Australian Bustard	
Aves	Artamus leucorynchus	White-breasted Woodswallow	,
Aves	Artamus personatus	Masked Woodswallow	
Aves	Aviceda subcristata	Pacific Baza	
Aves	Aythya australis	Hardhead	
Aves	Burhinus grallarius	Bush Stone-curlew	

Group	Scientific name	Common name	Status
Aves	Cacatua galerita	Sulphur-crested Cockatoo	
Aves	Cacomantis flabelliformis	Fan-tailed Cuckoo	
Aves	Calyptorhynchus banksii	Red-tailed Black-Cockatoo	
Aves	Centropus phasianinus	Pheasant Coucal	
Aves	Ceyx azureus	Azure Kingfisher	
Aves	Chenonetta jubata	Australian Wood Duck	
Aves	Climacteris picumnus	Brown Treecreeper	
Aves	Colluricincla harmonica	Grey Shrike-thrush	
Aves	Colluricincla megarhyncha	Little Shrike-thrush	
Aves	Coracina novaehollandiae	Black-faced Cuckoo-shrike	
Aves	Coracina papuensis	White-bellied Cuckoo-shrike	
Aves	Coracina tenuirostris	Cicadabird	
Aves	Corcorax melanorhamphos	White-winged Chough	
Aves	Cormobates leucophaea	White-throated Treecreeper	
Aves	Corvus coronoides	Australian Raven	
Aves	Corvus orru	Torresian Crow	
Aves	Coturnix ypsilophora	Brown Quail	
Aves	Cracticus nigrogularis	Pied Butcherbird	
Aves	Cracticus quoyi	Black Butcherbird	
Aves	Cracticus tibicen	Australian Magpie	
Aves	Cracticus torquatus	Grey Butcherbird	
Aves	Cygnus atratus	Black Swan	
Aves	Dacelo leachii	Blue-winged Kookaburra	
Aves	Dacelo novaeguineae	Laughing Kookaburra	
Aves	Daphoenositta chrysoptera	Varied Sittella	
Aves	Dicaeum hirundinaceum	Mistletoebird	
Aves	Dicrurus bracteatus	Spangled Drongo	
Aves	Dromaius novaehollandiae	Emu	
Aves	Egretta novaehollandiae	White-faced Heron	
Aves	Entomyzon cyanotis	Blue-faced Honeyeater	
Aves	Eolophus roseicapillus	Galah	
Aves	Eopsaltria australis	Eastern Yellow Robin	
Aves	Eudynamys orientalis	Eastern Koel	
Aves	Eurostopodus argus	Spotted Nightjar	
Aves	Eurostopodus mystacalis	White-throated Nightjar	
Aves	Eurystomus orientalis	Dollarbird	EPBC Act Marine
Aves	Falco berigora	Brown Falcon	
Aves	Falco cenchroides	Nankeen Kestrel	
Aves	Gallinula tenebrosa	Dusky Moorhen	

Group	Scientific name	Common name	Status
Aves	Geopelia humeralis	Bar-shouldered Dove	
Aves	Geopelia striata	Peaceful Dove	
Aves	Geophaps scripta	Squatter Pigeon	EPBC Act & NC Act Vulnerable
Aves	Gerygone albogularis	White-throated Gerygone	
Aves	Gerygone mouki	Brown Gerygone	
Aves	Grallina cyanoleuca	Magpie-lark	
Aves	Grus rubicunda	Brolga	
Aves	Haliastur sphenurus	Whistling Kite	
Aves	Hirundapus caudacutus	White-throated Needletail	EPBC Act Migratory / Marine EPBC Act & NC Act Vulnerable
Aves	Hirundo neoxena	Welcome Swallow	
Aves	Lalage leucomela	Varied Triller	
Aves	Lichenostomus chrysops	Yellow-faced Honeyeater	
Aves	Lichenostomus flavus	Yellow Honeyeater	
Aves	Lichenostomus leucotis	White-eared Honeyeater	
Aves	Lichmera indistincta	Brown Honeyeater	
Aves	Lopholaimus antarcticus	Topknot Pigeon	
Aves	Malurus elegans	Red-winged Fairy-wren	
Aves	Malurus melanocephalus	Red-backed Fairy-wren	
Aves	Manorina melanocephala	Noisy Miner	
Aves	Meliphaga lewinii	Lewin's Honeyeater	
Aves	Melithreptus albogularis	White-throated Honeyeater	
Aves	Melithreptus brevirostris	Brown-headed Honeyeater	
Aves	Melithreptus lunatus	White-naped Honeyeater	
Aves	Merops ornatus	Rainbow Bee-eater	
Aves	Microcarbo melanoleucos	Little Pied Cormorant	
Aves	Milvus migrans	Black Kite	
Aves	Mirafra javanica	Horsfield's Bushlark	
Aves	Myiagra cyanoleuca	Satin Flycatcher	EPBC Act Migratory
Aves	Myiagra rubecula	Leaden Flycatcher	
Aves	Myzomela sanguinolenta	Scarlet Honeyeater	
Aves	Neochmia temporalis	Red-browed Finch	
Aves	Nettapus coromandelianus	Cotton Pygmy-goose	
Aves	Ninox novaeseelandiae	Southern Boobook	
Aves	Nycticorax caledonicus	Nankeen Night-Heron	
Aves	Ocyphaps lophotes	Crested Pigeon	
Aves	Oriolus sagittatus	Olive-backed Oriole	

Group	Scientific name	Common name	Status
Aves	Pachycephala rufiventris	Rufous Whistler	
Aves	Pardalotus striatus	Striated Pardalote	
Aves	Pardalotus punctatus	Spotted Pardalote	
Aves	Pelecanus conspicillatus	Australian Pelican	
Aves	Petrochelidon nigricans	Tree Martin	
Aves	Phalacrocorax varius	Pied Cormorant	
Aves	Philemon citreogularis	Little Friarbird	
Aves	Philemon corniculatus	Noisy Friarbird	
Aves	Platycercus adscitus	Pale-headed Rosella	
Aves	Plectorhyncha lanceolata	Striped Honeyeater	
Aves	Plegadis falcinellus	Glossy Ibis	
Aves	Podargus strigoides	Tawny Frogmouth	
Aves	Poliocephalus poliocephalus	Hoary-headed Grebe	
Aves	Pomatostomus temporalis	Grey-crowned Babbler	
Aves	Rhipidura albiscapa	Grey Fantail	
Aves	Rhipidura rufifrons	Rufous Fantail	
Aves	Rhipidura leucophrys	Willie Wagtail	
Aves	Scythrops novaehollandiae	Channel-billed Cuckoo	
Aves	Sericornis frontalis	White-browed Scrubwren	
Aves	Smicrornis brevirostris	Weebill	
Aves	Sphecotheres vieilloti	Australasian Figbird	
Aves	Strepera graculina	Pied Currawong	
Aves	Struthidea cinerea	Apostlebird	
Aves	Tachybaptus novaehollandiae	Australasian Grebe	
Aves	Taeniopygia bichenovii	Double-barred Finch	
Aves	Taeniopygia guttata	Zebra Finch	
Aves	Threskiornis molucca	Australian White Ibis	
Aves	Threskiornis spinicollis	Straw-necked Ibis	
Aves	Todiramphus macleayii	Forest Kingfisher	
Aves	Trichoglossus chlorolepidotus	Scaly-breasted Lorikeet	
Aves	Trichoglossus haematodus	Rainbow Lorikeet	
Aves	Turnix varius	Painted Button-quail	
Aves	Vanellus miles	Masked Lapwing	
Insecta	Acraea andromacha	Glasswing	
Insecta	Belenois java	Caper White	
Insecta	Candalides erinus	Small Dusky-blue	
Insecta	Catopsilia gorgophone	Yellow Migrant	
Insecta	Euploea core	Common Crow	
Insecta	Eurema smilax	Small Grass-yellow	

Group	Scientific name	Common name	Status
Insecta	Papilio anactus	Dingy Swallowtail	
Insecta	Tetragonula carbonaria	Sugarbag Bee	
Insecta	Tirumala hamata	Blue Tiger	
Mammalia	Canis familiaris	Wild Dog	
Mammalia	Scotorepens sp	Broad Nose Bat	
Mammalia	Aepyprymnus rufescens	Rufous Bettong	
Mammalia	Chalinolobus gouldii	Gould's Wattled Bat	
Mammalia	Felis catus	Cat	
Mammalia	Macropus agilis	Agile Wallaby	
Mammalia	Macropus giganteus	Eastern Grey Kangaroo	
Mammalia	Macropus parryi	Whiptail Wallaby	
Mammalia	Melomys burtoni	Grassland Melomys	
Mammalia	Mus musculus	House Mouse	Invasive
Mammalia	Saccolaimus flaviventris	Rabbit	Invasive
Mammalia	Petauroides volans	Greater Glider	EPBC Act Vulnerable, NC Act Endangered
Mammalia	Petaurus breviceps	Sugar Glider	
Mammalia	Petaurus norfolcensis	Squirrel Glider	
Mammalia	Petrogale inornata	Unadorned Rock-wallaby	
Mammalia	Phascolarctos cinereus	Koala	EPBC Act & NC Act Vulnerable
Mammalia	Pseudocheirus peregrinus	Common Ringtail Possum	
Mammalia	Pteropus scapulatus	Little Red Flying-fox	
Mammalia	Pteropus sp.	Flying-fox sp.	
Mammalia	Saccolaimus flaviventris	Yellow-bellied Sheath-tailed Bat	
Mammalia	Scotorepens balstoni	Inland Broad-nosed Bat	
Mammalia	Sminthopsis murina	Common Dunnart	
Mammalia	Sus scrofa	Feral Pig	Invasive
Mammalia	Trichosurus vulpecula	Common Brushtail Possum	
Reptilia	Amalosia rhombifer	Zigzag Velvet Gecko	
Reptilia	Boiga irregularis	Brown Tree Snake	
Reptilia	Carlia munda	Shaded-litter Rainbow-skink	
Reptilia	Carlia pectoralis	Open-litter Rainbow-skink	
Reptilia	Chlamydosaurus kingii	Frilled Lizard	
Reptilia	Cryptoblepharus pulcher	Elegant Snake-eyed Skink	
Reptilia	Ctenotus robustus	Eastern Striped Skink	
Reptilia	Dendrelaphis punctulatus	Common Tree Snake	
Reptilia	Diplodactylus vittatus	Eastern Stone Gecko	

Group	Scientific name	Common name	Status
Reptilia	Diporiphora australis	Tommy Round Head Dragon	
Reptilia	Eulamprus quoyii	Eastern Water Skink	
Reptilia	Gehyra dubia	Dubious Dtella	
Reptilia	Gehyra versicolor	Eastern Tree Dtella	
Reptilia	Heteronotia binoei	Bynoe's Gecko	
Reptilia	Hoplocephalus bitorquatus	Pale-headed Snake	
Reptilia	Lampropholis delicata	Grass Skink	
Reptilia	Lygisaurus foliorum	Tree-base Rainbow-skink	
Reptilia	Menetia greyii	Common Dwarf Skink	
Reptilia	Morelia spilota	Carpet Python	
Reptilia	Morethia taeniopleura	Fire-tailed Skink	
Reptilia	Oedura monilis	Ocellated Velvet Gecko	
Reptilia	Pseudonaja textilis	Eastern Brown Snake	
Reptilia	Varanus varius	Lace Monitor	

Appendix H Flora species list

Acacia crassa subsp. crassaS1LCAcacia disparrimaS1LCAcacia falciformisBroad-Leaved HickoryS1LCAcacia falciformisBroad-Leaved HickoryS1LCAcacia salicinaDoolanS1LCAcacia salicinaDoolanS1LCAcacia salicinaDoolanS1LCAcacia salicinaDoolanS1LCAlcasuarina littoralisS1LCAllocasuarina torulosaT1/T2/IS1LCAllocasuarina torulosaS1LCAlvia ruscifoliaSoap TreeG/S1LCArchidendropsis basaticaRed LancewoodS1LCAristida tatifolaFeathertop WiregrassGLCAristida spG-Arundinella nepalensisReedgrassGLCBanksia integrifolia subsp. comparS1LCBrachychiton australisBroad-Leaved Bottle TreeT1LCBridelia leichhardtiiS1LCBrundinella asstraleBlue TrumpetGLCCarissa ovataCurrant BushS1LCCasuarina cunningharniana subsp. cunningharnianaT1LCCorymbia itreordiaPink BloodwoodT1/T2/S1LCCoryntia itremediaPink BloodwoodT1/T2LCCoryntia itramediaPink BloodwoodT1/T2LCCoryntia itramediaPink BloodwoodT1/T2LCCoryntia itreme	Species	Common name	Strata	NC Act status	EPBC Act status
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Cupaniopsis anacardioides Tuckeroo S1 LC Cycas terryana Cycad S1 V	Croton insularis	Queensland Cascarilla	S1	LC	
Cycas terryana Cycad S1 V	Cryptostegia grandiflora	Rubber Vine	S1	Weed	
	Cupaniopsis anacardioides	Tuckeroo	S1	LC	
	Cycas terryana	Cycad	S1	V	
Cynathillium cinereum G LC	Cynathillium cinereum		G	LC	
Denhamia sp S1 LC	Denhamia sp		S1	LC	
Dianella caerulea S1/G LC	Dianella caerulea		S1/G	LC	

Species	Common name	Strata	NC Act status	EPBC Act status
Dianella sp.		G	LC	
Dinebra decipiens		G	LC	
Diospyros		S1	LC	
Eleocharis sp.		G	LC	
Entolasia stricta	Wiry Panic	G	LC	
Eucalyptus acmenoides		T1	LC	
Eucalyptus crebra	Narrow-Leaved Ironbark	T1/T2/S1/ G	LC	
Eucalyptus drepanophylla	Narrow-Leaved Ironbark	T2	LC	
Eucalyptus exserta	Queensland Peppermint	T2	LC	
Eucalyptus melanophloia		T1	LC	
Eucalyptus moluccana	Gum-Topped Box	T1/T2	LC	
Eucalyptus platyphylla	Poplar Gum	T1	LC	
Eucalyptus portuensis (acmenoides)	White Mahogany	T1/T2	LC	
Eucalyptus tereticornis		T1/S1	LC	
Euroschinus falcatus		T1/S1	LC	
Exocarpus cupressiformis	Native Cherry	S1	LC	
Ficus rubiginosa	Port Jackson Fig	S	LC	
Glochidion lobocarpum		S1	LC	
Glycine clandestina		G	LC	
Gomphocarpus physocarpus	Balloon Cottonbush	S1	Weed	
Goodenia hederacifolia (hederacea)		G	LC	
Grevillea striata	Beefwood	T1	LC	
Heteropogon contortus	Black Speargrass	G	LC	
Imperata cylindrinica	Blady Grass	G	LC	
Jasminum sp.		G	LC	
Juncus sp.		G	LC	
Lantana camara	Lantana	S1/S	Weed	
Lepidosperma laterale		G	LC	
Lomandra confertifolia		G	LC	
Lomandra hystrix	Mat Rush	G	LC	
Lophostemon confertus	Brush Box	T2	LC	
Lophostemon suaveolens	Swamp Box	S1	LC	
Lysiphyllum maytenus		S1	-	
Melaleuca sp.		T1	-	
Melaleuca bracteata		S1	LC	
Melaleuca fluviatilis		T2	LC	
Melaleuca viminalis		S1	LC	

Species	Common name	Strata	NC Act status	EPBC Act status
Melaleuca viridiflora		T2/S1	LC	
Melia azedarach	White Cedar	T1	LC	
Notelaea microcarpa		S1	LC	
Oplismenus aemulus		G	LC	
Opuntia tomentosa	Velvety Tree Pear	S1	Weed	
Panicum sp.		G		
Parsonsia straminea	Monkey Rope	G	LC	
Petalostigma pubsecens	Quinine Tree	S1	LC	
Pittosporum spinescens		G	LC	
Pleiogynium timorense	Burdekin Plum	T1	LC	
Pogonolobus reticulatus		S1	LC	
Psydrax attenuata		S1	LC	
Psydrax sp.		S1	LC	
Sida rhombifolia	Paddy's Lucerne	G	Weed	
Sporobolus creber		G	LC	
Stylosanthes scabra		G	LC	
Themeda triandra	Kangaroo Grass	G	LC	
Typha sp.	Cumbungi	G	Weed	
Xanthorrhoea sp.		G	-	
Xanthorrhoea johnsonii		G/S1	LC	
Xanthorrhoea latifolia		S1	LC	

Appendix I Bat call analysis report



Bat Call Analysis Report

Lotus Creek Wind Farm

Prepared for Lotus Creek Wind Farm Pty Ltd

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ENVIRONMENTAL CONSULTING

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I.0 Introduction

I.I Background

An assessment on the likelihood of the presence of microbat species using echolocation detectors (Anabats swift) in April (11 days), October 2019 (16 days) and October 2020 (7 days) was conducted during an ecological survey of the proposed Lotus Creek Wind Farm located at Lotus Creek, Central Queensland.

I.2 Scope of Works

The specific scope of works for this report includes the following:

- Outline the methodology used to survey microbat species within the subject site;
- Present the findings of all of the bat call surveys conducted at the project site.
- Analyse and provide an assessment of the likelihood of occurrence of threatened microbat species listed under State and Commonwealth legislation; and,
- Identify of local statutory considerations relevant to ecological aspects (relevant to bats) of the site.



2.0 Methodology

2.1 Desktop Assessment

A desktop assessment was undertaken in March 2019 to review relevant environmental documents, databases, maps and legislation (Commonwealth, State and Local) to identify ecological values and threatened flora and fauna species that may potentially occur within and surrounding the site. This documentation was used as a preliminary source of information for consideration of field survey scoping. Following the first seasonal survey, Green Tape Solutions undertook additional database searches in October 2019 and 2020 to further refine our understanding of the potential species occurrences in the area, and included the following sources of information:

- The Department of Agriculture, Water and the Environment (DAWE) Protected Matters Search Tool to identify Matters of National Environmental Significance (MNES) within a 20 km search area using the coordinates (corners of a bounding polygon) for the proposed windfarm location;
- DAWE Species Profiles and Threats Database (SPRAT);
- The Department of Environment and Science (DES) Wildlife Online database to identify flora and fauna species occurring within approximately 20 km of the subject site. The search was defined using the coordinates (corners of the bounding polygon) for the proposed windfarm location;
- Atlas of Living Australia as defined by the coordinates (corners of the bounding polygon) for the proposed windfarm location;
- Published ecological information on threatened flora and fauna species for adjoining areas of land.

The results of the desktop assessment were used to inform the bat survey methodology described below.

2.2 Capture Technique and Survey Effort

Targeted bat surveys were conducted at 19 sites within all five vegetation communities that are identified in the Ecological Assessment report for the project:

- Vegetation Community 1: Eucalyptus crebra Woodland to Open Woodland
- Vegetation Community 2: Riparian Vegetation
- Vegetation Community 3: Mixed Eucalypt Open Forest communities
- Vegetation Community 4: Semi-Evergreen Vine Thicket (SEVT)
- Vegetation Community 5: Wetland/Alluvial Plains Eucalytpus crebra open Woodland vegetation community

The following four survey methods were employed during the bat surveys:

2.2.1 <u>Ultrasonic Detectors</u>

Microbat calls were sampled using Anabat Swift detectors (Titley Electronics). Passive monitoring was undertaken during two seasons (two surveys were done in summer and one in winter) in 2019 and 2020 at location outlined in **Figures 1** and **2**. as follow:



- During the wet season (31st April 10th May 2019), passive monitoring was undertaken for 10 consecutive nights using eight detectors 80 detector nights during the warmer season.
- During the dry season surveys (29th October to 14th November 2019), passive monitoring was undertaken for 13 consecutive nights using eight detectors; 104 detector nights during cooler season. All detectors had extended microphones.
- During the dry season surveys (21th October to 27 October 2020), passive monitoring was undertaken for six consecutive nights using four detectors; 24 detector nights during cooler season.

Monitoring commenced at dusk (approximately 1830 hours) and continued until dawn (approximately 0545 hours). Ultrasonic call monitoring surveys were conducted using stereo-channel full-spectrum detectors fitted with one omnidirectional ultrasonic microphone. The detectors were attached to tree trunks and set approximately 3 and 5m above the ground using telescopic microphones angled 45 degrees upwards.

No caves were observed within the survey area; however, a number of hollows were identified, providing potential roost sites for microbats. As such, the detectors were placed for general recording throughout the survey area. In particular, the detectors were placed within all three vegetation communities, in location where bats were likely to occur (e.g. proximity of hollow-bearing trees, along waterways, dam, etc.) and at proximity to the road and turbines where possible to maximise the chance of capturing all species that may roots or forage within the site.

2.2.2 Habitat searches

Habitat search were undertaken across the project area. Team of ecologists (1 team of 2 ecologists during April and 2 teams of 2 ecologists in October 2019 and 2020) drove and walked across the project area and flew drones (Phantom 3) covering an all vegetation communities. Habitat searches involved hand searches of suitable microhabitats, such as under loose bark, within hollow-bearing trees, and in rock fissures and crevices.

2.2.3 Spotlighting

Spotlight searches for nocturnally active mammals were also undertaken. Active monitoring surveys were conducted on all spotlighting nights during both seasons using an EchoMeter Touch from a slow-moving vehicle travelling along the access track from the vicinity of proposed turbines or along the walking tracks (Figures 1 and 2). Transects were undertaken by two ecologists.

Surveys commenced one hour after dusk and involved searching for any wildlife but targeting flying-fox's species on foot. Areas with hollow bearing trees were also targeted to detect bats emerging from diurnal roosts to forage. Spotlighting was also undertaken along vehicle tracks.

Spotlighting was undertaken every survey night over the three survey periods with a total of 50 survey hours. This results in an area of approximately 41.25km being covered through the combined effort of the spotlighting transects.

2.2.4 Harp Trap

Four harp traps were also set up at a different location every night during both seasonal surveys. A total of 100 trap nights were undertaken within the project area. At each site, monitoring commenced at dusk



(approximately 18:30hours) and traps were checked in the early morning, 2 hours before dawn (approximately 03:00 hours).

The use of a combination of trapping and echolocation call recording was the most efficient approach to for bat inventory surveys. The bat survey effort meets the Australasian Bat Society Guideline which recommends that effort should involve detector deployment for at least three complete nights in each major habitat type in the survey area. The survey effort is also consistent with the EPBC Act survey guidelines for Australia's threatened bats (DoE, 2010b) which recommends the 16 detector nights across four nights within each vegetation communities. The guidelines also indicate that 20 trap nights is recommended to capture the presence of *N. corbeni*.

2.3 Climate

Mean daily maximum temperatures (from the temperature recording station located in St Lawrence (BoM station 33210, approximately 40 km north east) indicates that summer temperatures average around 27-30°C. Maximum temperatures in the low to mid 40's have been recorded in October – March 2019, and minimum temperatures as low as zero have also been recorded during winter. There is a high incidence of winter and early spring fogs.

Rainfall data from the Bureau of Meteorology (BoM) weather station at Junee Station (034061), approximately 30 km south west from the study area, indicates that rainfall is seasonally distributed with a distinct wet season typically present from November through March and a drier season extending from April through October 2019 as well as in 2020. The median annual rainfall is 600-1000 mm, mostly falling between January and March (BoM, 2020).

The survey timing and condition were considered optimal for both seasons and as per vertebrate fauna surveys guidelines. The April survey was undertaken after summer rainfall and before the onset of cold winter nights. This timing coincides with an active period including dispersal and migration of many bat species. The condition of the site was moist and suitable for undertaking bat surveys.

During the second and third survey (October / November 2019 and 2020), temperatures began to warm up after winter and there was an increase in vertebrate activity with the commencement of breeding activity in many species. The survey conditions were undertaken in dry conditions.

The weather conditions during the field investigation were suitable for undertaking bat survey and collect seasonal variation across the site.

2.4 Call Identification

Bat detector recordings were analysed using Anabat Insight. Identifications were made by categorising call shape and frequency, with a species match given in consideration to region, known bat distributions, and habitats present. The focus of the bat surveys was to assess the presence of bat species found within the allotment, and to assess the potential for rare and threatened species to occur.

Call identification for this dataset was based on call keys and descriptions published for Queensland (Reinhold, 2001) and Northern Territory (PWCNT, 2002) with reference to descriptions for New South Wales (Pennay *et al.*, 2004).



Species' identification was further refined using the probability of occurrence of each species based on their geographic distribution (Churchill, 2008, Van Dyck *et al.*, 2008). Species nomenclature used in this report follows Churchill (2008).

The reliability of identification is as follows:

- Definite one or more calls where there is no doubt about the identification of the species;
- **Probable** most likely to be the species named, low probability of confusion with species that use similar calls; and,
- **Possible** call is comparable with the named species, with a moderate to high probability of confusion with species of similar calls.

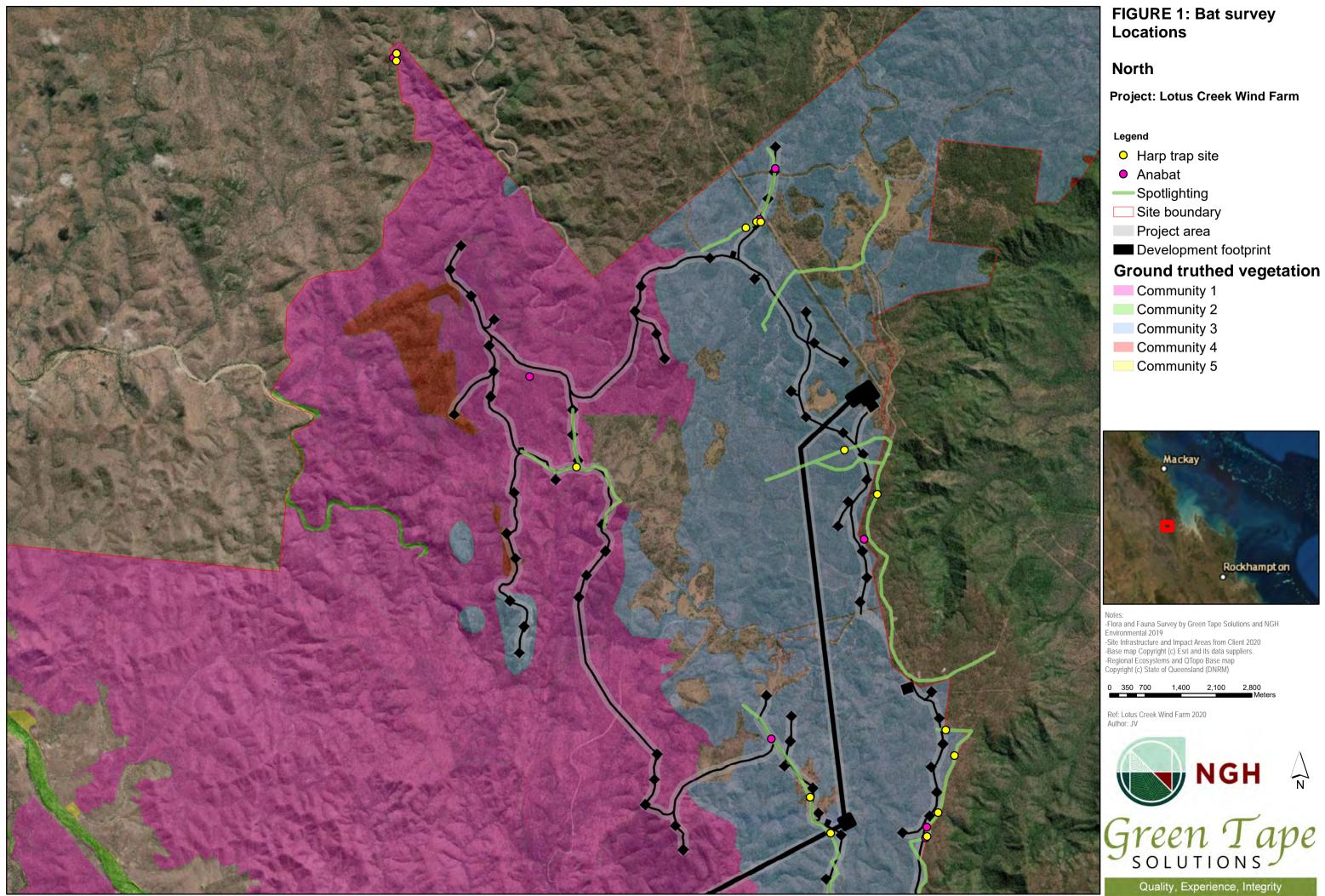
2.5 Survey Limitations

The ability to detect calls and accurately identify them to species level can vary greatly with the surrounding environment and the location of the echolocation device. The survey undertaken as part of this assessment only represents a 'snapshot' in time and therefore, may not provide a true indication of species presence at the site. Hence, this survey should not be regarded as conclusive evidence that certain microbat species do not occur at the site, although the species identified in both surveys were the same providing confidence that it is likely that all the species have been identified.

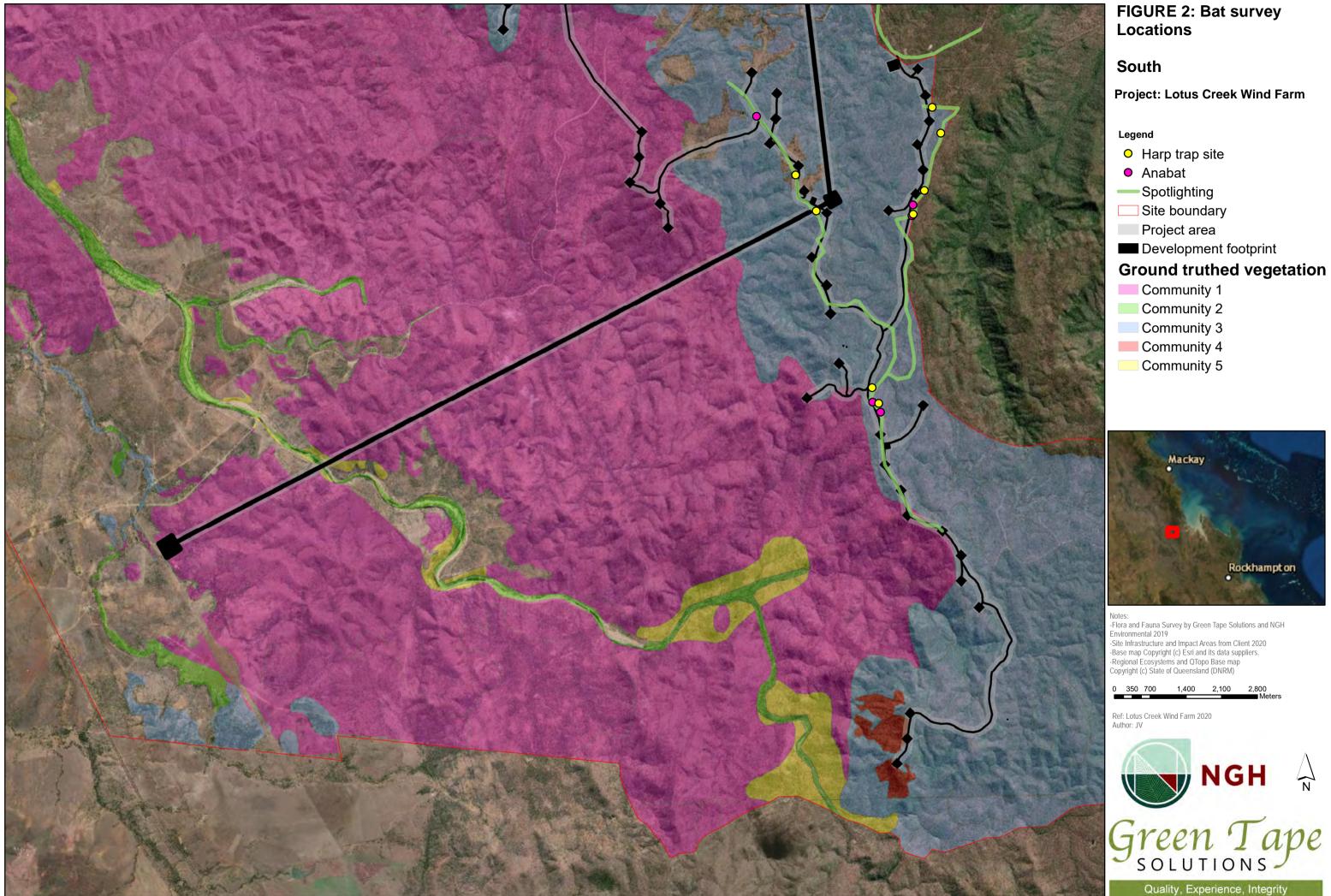
Not all areas within the project development area were easily/efficiently accessible for vegetation survey, due mostly to the presence of a very dense shrub layer, steepness of the terrain or lack of any existing access tracks in the vicinity of proposed wind farm infrastructure. In these areas, inspection from nearby accessible vantage points utilising high-powered binoculars or drone were used to confirm vegetation types. Condition for these areas was extrapolated from other known areas of similar vegetation that had been surveyed in detail.

2.6 National Standard

The format and content of this report complies with the nationally accepted standards for the interpretation and reporting of Anabats and Songmeters data (Reardon, 2003), which is currently available from the Australasian Bat Society at <u>www.ausbats.org.au</u>.



0	350	700	1,400	2,100	2,800
					Meters



0	350	700	1,400	2,100	2,800 Meters
~	0.50				



3.0 Results

3.1 Total of Species Recorded

The original call files display Australian Eastern Standard Time. The majority of calls were considered to be of medium to good quality calls. The locations of the devices are illustrated in **Figures 1** and **2**.

In total, 15,651 call sequence files were received, of which 50% were marked as containing recognisable bat calls. Most of the detectors generated a large quantity of identifiable bat calls. All detectors recorded data. A summary of the species present on site is provided in **Table 1**.

Species	NC Act	EPBC Act	An 1	An 2	An 3	An 4	An 5	2019 An 6	2019 An 7	2019 An 8	2020 An 1	2020 An 2	2020 An 3	2020 An 4
Austronomus australis	LC	NOC	NR	Definite	Definite	NR	Definite	с	Definite	Definite	Definite	Definite	Definite	Definite
Chalinolobus gouldii	LC	NOC	NR	NR	Definite - Captured	Definite	NR	NR	Definite	NR	NR	NR	Definite	Definite
Chalinolobus morio	LC	NOC	NR	Definite - Captured	NR	Definite	NR	NR	NR	Definite	Definite - Captured	NR	NR	NR
Chalinolobus nigrogriseus	LC	NOC	NR	Definite	Definite	NR	Definite	Definite	NR	Definite	Definite	Definite	Definite	Definite
Chalinolobus picatus	LC	NOC	NR	NR	NR	Definite	NR	Definite	Definite	NR	NR	NR	NR	NR
Miniopterus australis	LC	NOC	Definite	NR	Definite	NR	Definite	Definite	Definite	NR	NR	Definite	Definite	Definite
Miniopterus orianae oceanensis	LC	NOC	Definite	Definite	Definite	Definite	Definite	Definite	Definite	Definite	Definite	Definite	Definite	Definite
Myotis macropus	LC	NOC	Probable	NR	Probable	Probable	NR	NR	NR	NR	NR	NR	Probable	Probable
Nyctophilus geoffroyi,	LC	NOC												
- N. gouldi	LC	NOC	Probable	Probable	NR	NR	NR	NR	Probable	NR	Probable	NR	NR	NR
- N. bifax	LC	NOC												
- N. corbeni	Vulnerable	Vulnerable	Possible	Possible	NR	NR	NR	NR	Possible	NR	Possible	NR	NR	NR
Ozimops lumsdenae	LC	NOC	Possible	Possible	Possible	Possible	NR	NR	Possible	NR	Possible	NR	Possible	Possible
Ozimops ridei	LC	NOC	Definite	Definite	NR	Definite	Definite	NR	Definite	Definite	Definite	Definite	NR	NR
Rhinolophus megaphyllus	LC	NOC	Definite	Definite	Definite	Definite	Definite	Definite	Definite	Definite	Definite	Definite	Definite	Definite
Saccolaimus flaviventris	LC	NOC	Probable	Probable	NR	Probable	Probable	Probable	Probable	NR	Probable	Probable	NR	NR
Scotorepens balstoni	LC	NOC	Definite - Captured	Definite	Definite	Definite	NR	NR	Definite	Definite	Definite	NR	Definite	Definite
Scotorepens greyii	LC	NOC	Probable	Probable	NR	Probable	NR	Probable	Probable	Probable	Probable	NR	NR	NR
Taphozous troughtoni	LC	NOC	Possible	Possible	Possible	Possible	NR	NR	NR	NR	Possible	NR	Possible	Possible
Vespadelus troughtoni	LC	NOC	Definite	NR	Definite	NR	NR	NR	Definite	NR	NR	NR	Definite	Definite
Vespadelus vulturnus	LC	NOC	Possible	Possible	Possible	Possible	NR	NR	NR	NR	Possible	NR	Possible	Possible

 Table 1: Summary of bat calls (April 2019)

LC: Least Concern, NOC: Not of Concern, NR: Not recorded, V: Vulnerable, An: Anabat Swift

Green Tape SOLUTIONS ENVIRONMENTAL CONSULTING

Species	NC Act	EPBC Act	An 1	An 2	An 3	An 4	An 5	An 6	An 7	An 8
Austronomus australis	LC	NOC	NR	Definite	Definite	NR	Definite	NR	Definite	Definite
Chalinolobus gouldii	LC	NOC	NR	NR	NR	Definite - Captured	NR	Definite	NR	NR
Chalinolobus morio	LC	NOC	NR	NR	NR	NR	NR	Definite	NR	Definite - Captured
Chalinolobus nigrogriseus	LC	NOC	NR	Definite	Definite	NR	Definite	Definite	NR	Definite
Chalinolobus picatus	LC	NOC	NR	NR	NR	Definite	NR	Definite	Definite	NR
Miniopterus australis	LC	NOC	Definite	NR	Definite	NR	Definite	Definite	Definite	NR
Miniopterus orianae oceanensis	LC	NOC	Definite	Definite	Definite	Definite	Definite	Definite	Definite	Definite
Myotis macropus	LC	NOC	Probable	NR	Probable	Probable	NR	NR	NR	NR
Nyctophilus geoffroyi,	LC	NOC	Probable	Definite - Captured	NR	NR	NR	NR	Probable	NR
- N. gouldi - N. bifax	LC LC	NOC NOC	Possible	Possible	NR	NR	NR	NR	Possible	NR
- N. corbeni	Vulnerable	Vulnerable	Possible	Possible	NR	NR	NR	NR	Possible	NR
Ozimops lumsdenae	LC	NOC	Possible	Possible	Possible	Possible	NR	NR	Possible	NR
Ozimops ridei	LC	NOC	Definite	Definite - Captured	NR	Definite	Definite	NR	Definite	Definite
Rhinolophus megaphyllus	LC	NOC	Definite	Definite	Definite	Definite	Definite	Definite	Definite	Definite
Saccolaimus flaviventris	LC	NOC	Definite - Captured	Probable	NR	Probable	Probable	Probable	Probable	NR
Scotorepens balstoni	LC	NOC	Definite	Definite - Captured	Definite	Definite - Captured	NR	NR	Definite	Definite
Scotorepens greyii	LC	NOC	Probable	Probable	NR	Probable	NR	Probable	Probable	Probable
Scotorepens Sanborni										
Taphozous troughtoni	LC	NOC	Possible	Possible	Possible	Possible	NR	NR	NR	NR
Vespadelus troughtoni	LC	NOC	Definite	NR	Definite	NR	NR	NR	Definite	NR

 Table 2: Summary of bat calls (October 2019)

LC: Least Concern, NOC: Not of Concern, NR: Not recorded, , V: Vulnerable, An: Anabat Swift,

Green Tape SOLUTIONS ENVIRONMENTAL CONSULTING

Species	NC Act	EPBC Act	An 1	An 2	An 3	An 4
Austronomus australis	LC	NOC	Definite	Definite	Definite	Definite
Chalinolobus gouldii	LC	NOC	NR	NR	Definite	Definite
Chalinolobus morio	LC	NOC	Definite	NR	NR	NR
Chalinolobus nigrogriseus	LC	NOC	Definite	Definite	Definite	Definite
Chalinolobus picatus	LC	NOC	NR	NR	NR	NR
Miniopterus australis	LC	NOC	NR	Definite	Definite	Definite
Miniopterus orianae oceanensis	LC	NOC	Definite	Definite	Definite	Definite
Myotis macropus	LC	NOC	NR	NR	Probable	Probable
Nyctophilus geoffroyi,	LC	NOC				
- N. gouldi	LC	NOC	Probable	NR	NR	NR
- N. bifax	LC	NOC				
- N. corbeni	Vulnerable	Vulnerable	Possible	NR	NR	NR
Ozimops lumsdenae	LC	NOC	Possible	NR	Possible	Possible
Ozimops ridei	LC	NOC	Definite	Definite	NR	NR
Rhinolophus megaphyllus	LC	NOC	Definite	Definite	Definite	Definite
Saccolaimus flaviventris	LC	NOC	Probable	Probable	NR	NR
Scotorepens balstoni	LC	NOC	Definite	NR	Definite	Definite
Scotorepens greyii	LC	NOC	Probable	NR	NR	NR
Taphozous troughtoni	LC	NOC	Possible	NR	Possible	Possible
Vespadelus troughtoni	LC	NOC	NR	NR	Definite	Definite
Vespadelus vulturnus	LC	NOC	Possible	Possible	Possible	Possible

Table 3: Summary of bat calls (October 2020)

LC: Least Concern, NOC: Not of Concern, NR: Not recorded, V: Vulnerable, An: Anabat Swift





3.2 Samples of Calls / Sequences Files

Samples of call extracted from the dataset for each species identified is provided in the following figures.

Figure 3: Definite Austronomus australis

This bat is easily recognised by its constant frequency calls range in bandwidth from 10.5 to 15 kHz.

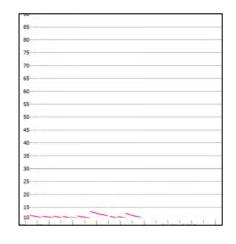


Figure 4: Definite Chalinolobus gouldii

Curved shape with characteristic frequency 28 to 31kHz. Pulse alternate in frequency.

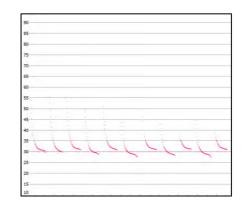


Figure 5: Definite Chalinolobus nigrogriseus

Curved shape with characteristic frequency 37 to 40kHz (Reinhold *et al,* 2001). Usually has no tail. Characteristic section and tail take up at least 2/3 if the time of the pulse when in search phase.

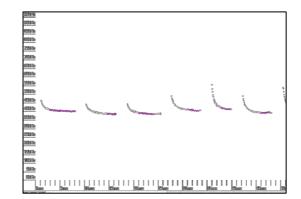




Figure 6: Definite Chalinolobus picatus

Characteristic frequency between 38.5 and 43 kHz (n = 9). Curved. Pulses alternate in frequency. Good quality calls should not be confused with any other species. Characteristic frequency is usually higher than Scotorepens greyii, and lower than *Vespadelus vulturnus*. Non-alternating calls below 40 kHz may be confused with *Scotorepens greyii* (Reinhold *et al*, 2001).

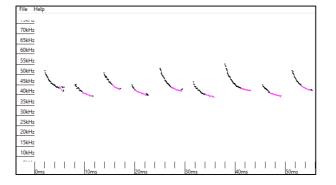


Figure 7: Definite Miniopterus australis

This species displays a characteristic frequency between 54.5 - 64.5 kHz with a curved, usually down-sweeping tail (Pennay *et al* 2004). It overlaps in frequency with *Vespadelus pumilus* between 57 - 58 kHz but the latter exhibits curved up-sweeping tail.

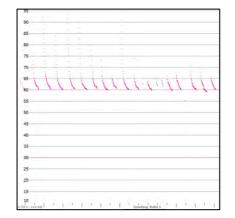


Figure 8: Possible *Miniopterus orianae* oceanensis

The species call is characterised by its relatively long curved pulse with a small down-sweeping tail and its frequency 43-47kHz (Reinhold, 2001).

Pulse shape and time between calls usually variable within a sequence.

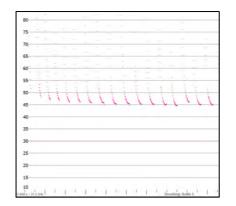




Figure 9: Probable Myotis macropus

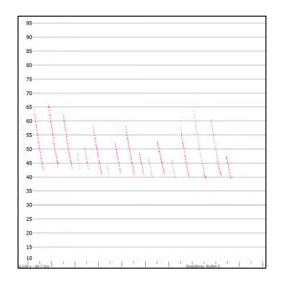
Near-vertical pulse dropping to about 30 to 35-50kHz. *M. macropus* mostly have a pulse interval of less than 75ms and usually have one kink close to the middle so that the second part has a lesser slope than the first (Reinhold, 2001).

This call can be confused with *Nyctophilus sp* calls. The latest have usually a pulse interval greater than 95ms and are slightly more complicated structure with two kinks instead of one.

Figure 10: Definite Nyctophilus sp.

This species displays a near-vertical pulse, characteristic frequency between 80 and 35KHz (Pennay *et al*, 2004). The call of these species cannot be distinguished from each other.

There are four species of *Nyctophilus spp* occurring within the site area. One of them, *N. corbenii* can occur within the site and is listed under NC Act and EPBC Act. Harp trap surveys did not capture this species within the project area. The locations of the calls recorded match the capture location of the other 3 least concern microbats' species.



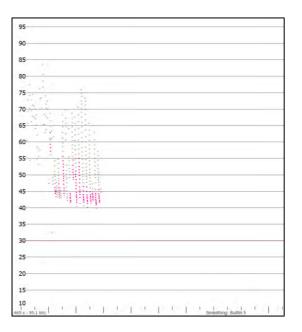




Figure 11: Definite Ozimops ridei

This species exhibits a characteristic frequency between 28.5 - 31 kHz (Pennay *et al*, 2004). This call can be confused with other species. The call is flat and occasional pulses in a sequence may have a higher frequency but not in a regular up and down patterns.

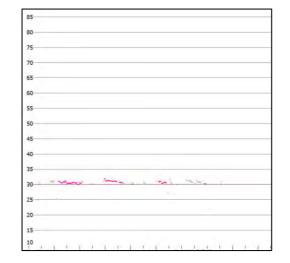
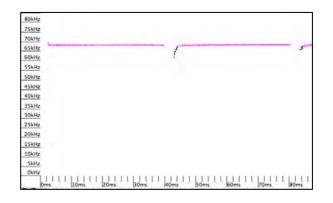


Figure 12: Definite *Rhinolophus megaphyllus*

The species call cannot be misidentified with any other species. Pulses have an upsweeping initial section a perfectly flat, relatively long characteristic section and a down sweeping tail (Reinhold, 2001). Characteristic frequency ranges from 66 to 72 kHz.

Figure 13: Probable Saccolaimus flaviventris

This species displays a curved pulse, characteristic frequency between 17.5 to 22.5 kHz (Pennay *et al*, 2004). Dominant harmonics are between 18-20 kHz.



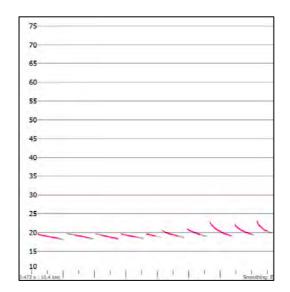




Figure 14: Definite Scotorepens balstoni

This species was captured on site. Characteristic frequency 31 to 35kHz. Distinguished from *C. gouldii* by the lack of alternation in the frequency. This species can also be distinguished by the frequency of the knee which is lower than 37kHz.

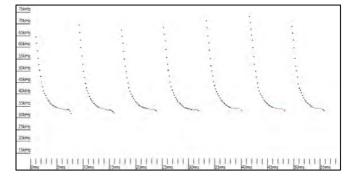


Figure 15: Probably Scotorepens greyii

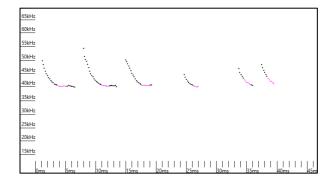
This species' calls overlap with *C. picatus* around 39-41 kHz and have similar pulse shapes (mostly steep FM sweep with cupshaped body and upward-sloping tail). Good calls from *C.picatus* usually exhibit distinctive frequency alternation of 2-4 kHz between successive pulses.

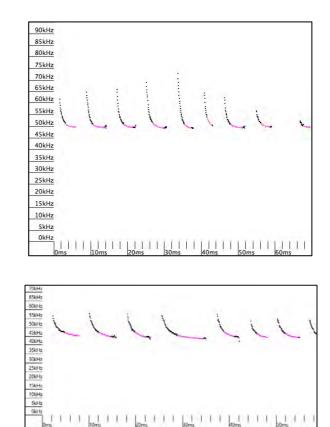
Figure 16: Definite Vespadelus troughtoni

This species displays a curved pulse, characteristic frequency between 48.5 to 55 kHz (Pennay *et al*, 2004). If the end, frequency is lower than 51 kHz, then the call can be identified to *V. Troughtoni* and be differentiated from *V. pumilus*.



This species call has a characteristic relatively long and between 42.5 to 48.5 kHz, with no tail. This call outlined in this figure is similar to *V. darlingtonia*; however, the site is outside this species' known distribution.







4.0 Discussion

4.1 Analysis of the presence of Nyctophilus corbeni

The purpose of the bat survey was to identify the presence of threatened microbat species (Vulnerable under the EPBC Act and NC Act) within the project area.

While no threatened species were 'definitely' recorded or 'probably' recorded within the project area, species such as *Nyctophilus corbeni* (Vulnerable under the EPBC Act and NC Act) have been recorded as "possible" in this report. The identification of their calls cannot be distinguishable reliably from the other sympatric Nyctophilus species.

Nyctophilus corbeni roosts in tree hollows, under exfoliating bark and possibly in dense foliage. Usually found in semiarid areas, including the mallee districts of South Australia, Victoria and western New South Wales and in grasslands, open woodland and dry sclerophyll forest in New South Wales and Queensland. Habitat occurs within the project area and its presence could be expected within the project area.

A total of 100 trap nights were set across the project area. *Nyctophilus geoffroyi* were captured in the harp traps during the field work. The calls recorded by the anabats match this non-threatened species because they were recorded contemporaneously with and at the same location of their capture. While the absence of *Nyctophilus corbeni* cannot be totally confirmed, we are confident that the calls recorded by the anabat detectors would belong to this non-threatened species.

4.2 Mt Etna Caves National Park

The following assessment has been undertaken to identify potential impacts of the project to bat species recorded within the Mount Etna Caves National Park, a significant roosting site located approximately 100km east-south-east from the southernmost turbine.

A desktop assessment was undertaken to identify bat species recorded within the national park and their habitat and foraging behaviour. On the basis of this information, an assessment of the potential impacts to populations within the national park has been made. Species within the national park were identified by searches of the Wildlife Online database, maintained by the Department of Science, Information Technology, Innovation and the Arts (DSITIA) and the Atlas of Living Australia (ALA). The Wildlife Online database was searched using the Mount Etna National Park protected area as the area search parameter. Records within the ALA database were searched using the central coordinates of - 23.159248, 150.474503 with a buffer of a 5 km radius applied.

All bat species identified by the desktop searches are given in **Table 4**. To date, there is little known about the timing of migration and movement of bat species between roosts, flight paths between roosts and foraging areas and the impact of wind farms on Australian bats in general (Law, Eby, Lumsden and Lunney, 2011). For many of these species, there are few or no studies into foraging distance and ranges. For those species for which the distance between roost sites and foraging areas is known (i.e. *Taphozous troughtoni, Macroderma giga, Pteropus alecto, Rhinolophus megaphyllus and Vespadelus pumilus*), the project area is located well outside of these foraging ranges, which vary from $\leq 2 \text{ km}$ to 50 km.



For species which travel considerable distances between overwintering roost sites and maternity colony sites (e.g. Eastern Bent-wing Bat), a Bird and Bat Management Plan (BBMP) will be prepared to monitor and provide management strategies to reduce the likelihood of occurrence of impacts to these species.

An assessment of the potential impacts to this species is included in **Table 3** below.



Table 4: Assessment of potential impacts to bat species recorded within Mount Etna Caves National Park

Species	Common Name	NC Act Status	EPBC Act Status	Habitat and foraging activity	Likelihood of occurrence within the project area	Assessment of potential impact on populations within Mt Etna National Park
Taphozous georgianus	Common Sheathtail bat	-	-	This species is generally found in rocky landscapes with outcrops that form caves. It roosts in vertical cracks, caves, and similar artificial habitats such as mine shafts. It is often found roosting in small groups, however, colonies of up to 100 animals have been recorded (Jolly <i>et al.</i> 2008). They have a high fidelity to their roost site, even after capture (K.N. Armstrong unpublished obs.). (Armstrong and Reardon, 2017). Utilises a variety of habitat types for foraging, including monsoon forest, paperbark forest, tall open forest, open woodland, spinifex and hummock grasslands.	Unlikely. This site contains rocky outcrop landscapes; however no caves were identified at proximity to the turbines or infrastructure location. This species has not been recorded within or near the project area.	The project is unlikely to impact upon populations that utilise roosting sites within the Mount Etna Caves National Park, given the project won't disturb the caves themselves, and the distance from the caves to the site indicates that the bats using the caves are unlikely to forage over 100km from their roosting habitat, to within the project site, with typical movements found to be generally less than 2km from a roost cave (Jolly 1990). This species is not threatened under the NC Act or EPBC Act.
Taphozous troughtoni	Troughton's Sheathtail Bat	-	-	This species generally roosts in natural shallow caves or within the twilight zone of larger cave systems, frequently near narrow crevices, boulder piles and abandoned mines. Foraging habitat includes wet and dry	This site contains rocky outcrop landscapes; however, no caves were	The project is unlikely to impact upon populations that utilise roosting sites within the Mount Etna Caves National Park, due to



Species	Common Name	NC Act Status	EPBC Act Status	Habitat and foraging activity	Likelihood of occurrence within the project area	Assessment of potential impact on populations within Mt Etna National Park
				sclerophylly forests, open woodland, mulga shrublands, spinifex-covered hills and grasslands where rocky areas, caves or mines are present (Churchill, 2008). <i>Taphozous</i> species are typically swift, high-flying species, which forage above canopy height (Thomson et al. 2001). Radio-tracking studies indicate this species hunts within a small area around roost sites (up to 2 kilometres) (Churchill, 2008).	identified at proximity to the turbines or infrastructure location. This species was possibly recorded on site and would like forage within the project area.	the site being located outside of the foraging range (≤ 2 km) of this population. This species is not threatened under the NC Act or EPBC Act.
Macroderma gigas	Ghost Bat	E	V	Occurs in a wide range of habitats in tropical northern Australia, including rainforest, monsoon and vine scrub, and open woodlands. This species roosts in shallow sandstone caves along cliff lines, under boulder piles, in deep limestone caves and in abandoned mines. It is strictly carnivorous and often catches most of its prey on the ground. It utilises a broad range of habitats for foraging, including arid spinifex hillside, grasslands, monsoon forest, open savannah woodland, deciduous vine forest and tropical rainforest. Radio-tracking studies indicate that individuals travel up to 2 km from the roost when foraging and use the same foraging areas of approximately 60 ha each night (Churchill, 2008).	This site contains only small patches of vine thickets sparsely spread across the project area. No caves were identified at proximity to the turbines or infrastructure locations. This species has not been recorded within the project area.	The project is unlikely to impact upon populations that utilise roosting sites within the Mount Etna Caves National Park, due to the site being located outside of the foraging range (≤ 2 km) of this population.



Species	Common Name	NC Act Status	EPBC Act Status	Habitat and foraging activity	Likelihood of occurrence within the project area	Assessment of potential impact on populations within Mt Etna National Park
<i>Miniopterus</i> australis	Little Bent- wing Bat	_		This species roosts in colonies in caves and tunnels, and may also be found roosting in tree holes. Maternity colonies are established in the summer months within limestone cave systems. It forages for insects in well- timbered areas including rainforest, vine thicket, wet and dry sclerophyll forests, <i>Melaleuca</i> swamps and coastal forests (Churchill, 2008) where it pursues prey beneath the canopy and between the shrub and canopy strata. This species ranges of Australia from Cape York in Queensland to Wollongong in NSW. It has been recorded flying up to 59.5 kilometers from the nursery site, but no more than that (Dwyer, 1968)	No caves were identified at proximity to the turbines or infrastructure locations. Some tree- hollows were identified within the site and may be suitable as roosting habitat. This species has been recorded within the project area.	The project is unlikely to impact upon populations that utilise roosting sites within the Mount Etna Caves National Park due to the site being located outside of the foraging range (≤ 60 km) of this population. This species is not threatened under the NC Act or EPBC Act.
Miniopterus schreibersii oceanensis	Eastern Bent-wing bat	-	-	Populations of this species are centred on maternity caves that are used annually. Large maternity roosts are established during the summer months in limestone and sandstone caves, abandoned gold mines, concrete bunkers and lava tubes. Females fly large distances in spring to maternity roost sites (Churchill, 2008). In February, the females leave the maternity roosts with the juveniles departing in March. Both travel considerable	No caves were identified at proximity to the turbines or infrastructure locations. This species has not been recorded within the project area.	This species has not been recorded on site. The project is unlikely to impact upon populations that utilise roosting sites within the Mount Etna Caves National Park. The species has been recorded as being able to disperse over



Species	Common Name	NC Act Status	EPBC Act Status	Habitat and foraging activity	Likelihood of occurrence within the project area	Assessment of potential impact on populations within Mt Etna National Park
				distances to their overwintering roosts, with the juveniles often travelling up to several hundred kilometres. This species forages in open areas, above the tree canopy in forested areas, along waterways and tracks (Van Dyck and Strahan, 2008).		300km (NSW OEH, 2018), but the dispersal of the population at Mt Etna Caves NP is unlikely to bring them into conflict with the project, given the lack of records of the species anywhere near the site that might otherwise suggest a dispersal pathway near/through the site. Daily foraging movements are generally only a few kilometres, although individuals have been known to travel up to 65km in a single night (Churchill, 2008), much less than the 100km flight distance required to bring the bats into the project site area.
Pteropus alecto	Black Flying-fox	-	-	Camps are usually located near reliable food sources and are generally found in mangroves, <i>Melaleuca</i> and monsoon forests, closed and open eucalypt forest and bamboo. Groups of individuals may travel up to 50 km from the camp, however the foraging area is usually	Suitable habitat occurs across the site. This species was sighted as part of the spotlighting activities.	The project is unlikely to impact upon populations within the Mount Etna Caves National Park, due to the site being located outside of the foraging range (≤ 20 - 50 km)



Species	Common Name	NC Act Status	EPBC Act Status	Habitat and foraging activity	Likelihood of occurrence within the project area	Assessment of potential impact on populations within Mt Etna National Park
				restricted to a 20 km radius (Churchill, 2008). This is confirmed Hall <i>et al.</i> (2000) who mentions that black flying-fox has a general home range of 15-30 km radius.	However, the abundance of this species on site is low.	of this population. This species is not threatened under the NC Act or EPBC Act.
Rhinolophus megaphyllus	Eastern Horseshoe- bat	-	-	Roosts in caves, disused mine tunnels, roadside culverts, old bunkers, boulder piles and occasionally, houses. Forages within and at the edge of stands of vegetation, in rainforest, eucalypt open forest and woodland. Radio-tracking studies indicate that some individuals travel up to 2 km from the roost when foraging (Van Dyck and Stahan, 2008).	Suitable foraging habitat occur across the site and this species was recorded on numerous occasions within survey activities. However, no caves were sighted at proximity of the turbines.	The project is unlikely to impact upon populations within the Mount Etna Caves National Park, due to the site being located outside of the foraging range (≤ 2 km) of this population. This species is not threatened under the NC Act or EPBC Act.
Vespadelus pumilus	Eastern Forest Bat	-	-	This species prefers moister forest habitats, especially rainforest areas at lower altitudes. This species has a disjunct distribution along the eastern seaboard. It roosts in tree hollows. Foraging ranges are small, averaging approximately 6 hectares and comprise a number of discrete centres of activity (Van Dyck and Strahan, 2008).	Suitable foraging habitat is limited within the site. This species was recorded on site.	The project is unlikely to impact upon populations within the Mount Etna Caves National Park, due to the lack of suitable foraging habitat within the project area and the site is located outside of the foraging range for this population,



Species	Common Name	NC Act Status	EPBC Act Status	Habitat and foraging activity	Likelihood of occurrence within the project area	Assessment of potential impact on populations within Mt Etna National Park
						with the average foraging range of the species estimated at about 5ha (Law & Anderson, 2000). This species is not threatened under the NC Act or EPBC Act.



4.3 **Project Impact Assessment**

The project area contains suitable habitat for two of the four threatened bat species identified within the search area (including Mt Etna Caves National Park). An assessment of the likelihood of occurrence of these species was prepared following the field investigations, based on habitat type, availability and quality throughout the site, and the known distribution and ecological requirements of each species (**Table 4**).

Table 5: Likelihood of Impact

Species	Common Name	NC Act Status	EPBC Act Status	Habitat	Likelihood of Occurrence	Likelihood of Impact -
Chalinolobus dwyeri	Large- eared Pied Bat	V	-	Caves and mines in dry sclerophyll forests and woodlands as well as higher altitude moist eucalypt forest and edges of rainforest.	Unlikely due to the absence of preferred habitat on the Site. This species was not recorded on site during the field investigation.	No. Species has not been recorded at the site, and preparation of a Bird and Bat Management Plan to monitor and provide mitigation measures will further reduce likelihood of a significant impact.
Pteropus poliocephalus	Grey- headed Flying-fox	V	_	Occurs in a range of habitats including subtropical and temperate rainforests, dry and wet sclerophyll forests, Banksia woodland, heaths and Melaleuca swamps.	Possible, Suitable foraging habitat occurs on the site. However, this species was not recorded on site during the field investigation.	No. Species has not been recorded at the site, and preparation of a Bird and Bat Management Plan to monitor and provide mitigation measures will further reduce likelihood of a significant impact.
Macroderma gigas	Ghost Bat	V	V	Occurs in a wide range of habitats in Tropical Australia, including rainforest, monsoon and vine scrub, and open woodlands. This species requires undisturbed caves for disused mineshafts for roosting.	Unlikely. Limited habitat occurs on site. This species was not recorded on site during the field investigation.	No. Species has not been recorded at the site, and preparation of a Bird and Bat Management Plan to monitor and provide mitigation measures will further reduce likelihood of a significant impact.



Species	Common Name	NC Act Status	EPBC Act Status	Habitat	Likelihood of Occurrence	Likelihood of Impact -
Nyctophilus corbeni	South- eastern Long- eared Bat, Corben's Long- eared Bat	V	V	Preferred habitat is eucalypt woodland, although it has also been recorded from rainforest with hoop pines in the Bunya Mountains, and in semi evergreen vine thickets on the banks of the Dawson River. It is most abundant in vegetation with a distinct canopy and a dense cluttered shrub layer.	Possible. Suitable habitat identified on site. This species was not recorded on site during the field investigation.	No. Species has not been recorded at the site, and preparation of a Bird and Bat Management Plan to monitor and provide mitigation measures will further reduce likelihood of a significant impact.

Status: E: Endangered, V: Vulnerable, NT: Near Threatened

Likelihood of Occurrence: Unlikely – no suitable habitat present, Possible – suitable species habitat present, Likely – suitable species habitat present and has previously been recorded within 5km, Confirmed – species recorded during field survey

Consideration of the Mount Etna Caves National Park was given when assessing the impact of the project for the area. Mount Etna Caves National Park, located approximately 100km east-south-east from the southernmost turbine, represents a significant roosting site for a variety of bats, in particular the Ghost Bat and the bent-wing bats.

The primary concern for these species arising from wind farm developments is the possibility of mortality of bats resulting from collision with turbine rotors. Some species are more prone to collide with turbine rotors than others, such as some bat species that are known to fly at the height of the turbine rotors. Hence, species that fly high are considered to be at greater risk of mortality from collision with rotors than species that tend to stay below the sweep area of the rotor blades.

Investigations undertaken in April 2019, October 2019 and October 2020 indicate a relatively medium diversity of bat species occurring within the site (16 species). No threatened bat species were recorded during the field surveys, although one threatened bat species, *Nyctophilus corbeni*, was possibly recorded on site. As stated above, calls from this species are not reliably distinguishable from other species of bats that were positively confirmed as being present at the site from the trapping study and *N. corbeni* was not. While the absence of *N. corbeni* cannot be totally confirmed (refer to Section 4.1), we are confident that the calls recorded by the devices would belong to the *N. geoffroyi*, a non-threatened species as the calls were recorded at the same location of capture. Furthermore, *N. corbeni* is a low flyer in forest, over water pools and is also found in disturbed forests. As such, the proposed wind farm should not have a significant impact on this species through rotor blade strikes.

Rotor blade strikes on bat species will also be minimised to the greatest extent possible to ensure impacts are acceptable, and this can be controlled through the Bird and Bat Management Plan.



Given that no bat roosts or conservation significant fauna species were identified in the project area, the level of impact is likely to be low. To further reduce the likelihood of impact, it is also recommended that periodic monitoring of fauna strikes is undertaken and records of these events maintained and disseminated to relevant authorities to further the knowledge of such events. Details will be provided within the Bird and Bat Management Plan.

Further assessment of the impact on threatened bat is provided in the Ecological Assessment report prepared for the project.



5.0 Conclusion

A total of 16 microbat species were detected occurring as either 'Definitely', 'Probably' or 'Possibly' recorded on site. All of these are non-threatened species. All bats identified on the site were expected to be present within the region.

Bat activity levels at the site are similar compared to other surveys within similar areas in the surrounding region. The presence of *Nyctophilus corbeni* (Vulnerable under the EPBC Act and NC Act) was not identified on site. While its calls could not be distinguishable reliably from other sympatric Nyctophilus species using anabat detectors and processing with full-spectrum analysis, *Nyctophilus geofrroyi* was captured in the harp traps during the survey, while *Nyctophilus corbeni* was not. The calls recorded by the anabat swifts match this non-threatened species it was recorded contemporaneously with and at the same location of their capture. Therefore, while the *Nyctophilus corbeni* could occur at proximity of the project area, it is unlikely that it is present within the surveyed area. Furthermore, this species flies low in the air, and therefore, it is unlikely that the project would have any significant impact on this species if there were to be present on site.

Consideration was given to the potential impacts of the project on other listed threatened species that have been recorded at the Mount Etna Caves National Park, 100km east-south-east from the southernmost turbines, and concluded that the project is also unlikely to result in an impact to these species.

A Bird and Bat Management Plan will be prepared to provide recommendations on the monitoring, the management and mitigation measures to further reduce the possibility of the project resulting in a significant impact to bats.



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