

Appendix A Database Searches



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: 17/05/18 08:38:03

[Summary](#)

[Details](#)

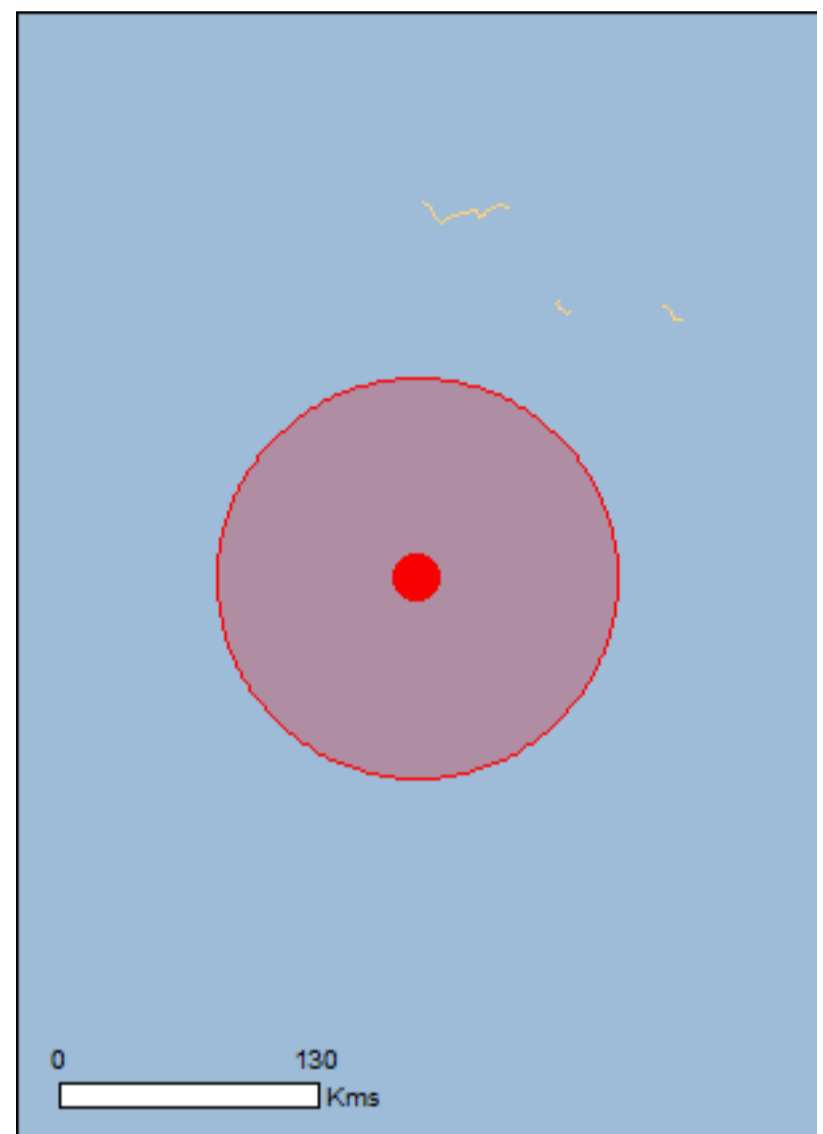
[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)



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

[Coordinates](#)

[Buffer: 100.0Km](#)



Summary

Matters of National Environmental Significance

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

| | |
|---|------|
| World Heritage Properties: | 1 |
| National Heritage Places: | 2 |
| Wetlands of International Importance: | None |
| Great Barrier Reef Marine Park: | None |
| Commonwealth Marine Area: | None |
| Listed Threatened Ecological Communities: | 1 |
| Listed Threatened Species: | 44 |
| Listed Migratory Species: | 19 |

Other Matters Protected by the EPBC Act

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

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

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

| | |
|--|------|
| Commonwealth Land: | None |
| Commonwealth Heritage Places: | None |
| Listed Marine Species: | 26 |
| Whales and Other Cetaceans: | None |
| Critical Habitats: | None |
| Commonwealth Reserves Terrestrial: | None |
| Commonwealth Reserves Marine: | 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: | 19 |
| Regional Forest Agreements: | None |
| Invasive Species: | 31 |
| Nationally Important Wetlands: | 8 |
| Key Ecological Features (Marine) | None |

Details

Matters of National Environmental Significance

World Heritage Properties [\[Resource Information \]](#)

| Name | State | Status |
|---|-------|-------------------|
| Wet Tropics of Queensland | QLD | Declared property |

National Heritage Properties [\[Resource Information \]](#)

| Name | State | Status |
|---|-------|---------------------|
| Natural | | |
| Wet Tropics of Queensland | QLD | Listed place |
| Indigenous | | |
| Wet Tropics World Heritage Area (Indigenous Values) | QLD | Within listed place |

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 |
|---|------------|---------------------------------------|
| Broad leaf tea-tree (Melaleuca viridiflora) woodlands in high rainfall coastal north Queensland | Endangered | Community likely to occur within area |

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

| Name | Status | Type of Presence |
|---|-----------------------|--|
| Birds | | |
| Calidris ferruginea Curlew Sandpiper [856] | Critically Endangered | Species or species habitat known to occur within area |
| Casuarius casuarius johnsonii Southern Cassowary, Australian Cassowary, Double-wattled Cassowary [25986] | Endangered | Species or species habitat known to occur within area |
| Erythrotriorchis radiatus Red Goshawk [942] | Vulnerable | Species or species habitat known to occur within area |
| Erythrura gouldiae Gouldian Finch [413] | Endangered | Species or species habitat known to 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 habitat known to occur within area |
| Rostratula australis Australian Painted Snipe [77037] | Endangered | Species or species habitat likely to occur within area |
| Tyto novaehollandiae kimberli Masked Owl (northern) [26048] | Vulnerable | Species or species |

| Name | Status | Type of Presence |
|---|------------|--|
| Frogs | | |
| Litoria dayi Australian Lace-lid, Lace-eyed Tree Frog [86707] | Endangered | Species or species habitat likely to occur within area |
| Litoria nannotis Waterfall Frog, Torrent Tree Frog [1817] | Endangered | Species or species habitat likely to occur within area |
| Litoria rheocola Common Mistfrog [1802] | Endangered | Species or species habitat may occur within area |
| Pseudophryne covacevichae Magnificent Brood Frog [64385] | Vulnerable | Species or species habitat may occur within area |
| Mammals | | |
| Bettongia tropica Northern Bettong [214] | Endangered | Species or species habitat likely to occur within area |
| Dasyurus hallucatus Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331] | Endangered | Species or species habitat likely to occur within area |
| Dasyurus maculatus gracilis Spotted-tailed Quoll (North Queensland), Yarri [64475] | Endangered | Species or species habitat likely to occur within area |
| Hipposideros semoni Semon's Leaf-nosed Bat, Greater Wart-nosed Horseshoe-bat [180] | Vulnerable | Species or species habitat may occur within area |
| Macroderma gigas Ghost Bat [174] | Vulnerable | Breeding likely to occur within area |
| Mesembriomys gouldii rattoides Black-footed Tree-rat (north Queensland), Shaggy Rabbit-rat [87620] | Vulnerable | Species or species habitat likely to occur within area |
| Petauroides volans Greater Glider [254] | Vulnerable | Species or species habitat known to occur within area |
| Petrogale sharmani Mount Claro Rock Wallaby, Sharman's Rock Wallaby [59281] | Vulnerable | Species or species habitat known 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 conspicillatus Spectacled Flying-fox [185] | 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 |
| Rhinolophus robertsi Large-eared Horseshoe Bat, Greater Large-eared Horseshoe Bat [87639] | Vulnerable | Species or species habitat known to occur within area |
| Saccolaimus saccolaimus nudicluniatus Bare-rumped Sheath-tailed Bat, Bare-rumped Sheath-tail Bat [66889] | Vulnerable | Species or species habitat likely to occur within area |

Plants

| Name | Status | Type of Presence |
|---|------------|--|
| Acacia crombiei Pink Gidgee [10927] | Vulnerable | Species or species habitat known to occur within area |
| Bulbophyllum globuliforme Miniature Moss-orchid, Hoop Pine Orchid [6649] | Vulnerable | Species or species habitat likely to occur within area |
| Cajanus mareebensis [8635] | Endangered | Species or species habitat likely to occur within area |
| Cycas cairnsiana a cycad [5780] | Vulnerable | Species or species habitat likely to occur within area |
| Cycas platyphylla a cycad [55796] | Vulnerable | Species or species habitat likely to occur within area |
| Dichanthium queenslandicum King Blue-grass [5481] | Endangered | Species or species habitat likely to occur within area |
| Dichanthium setosum bluegrass [14159] | Vulnerable | Species or species habitat known to occur within area |
| Grevillea glossadenia [7979] | Vulnerable | Species or species habitat known to occur within area |
| Lindsaea pulchella var. blanda [20842] | Vulnerable | Species or species habitat may occur within area |
| Macropteranthes montana [9003] | Vulnerable | Species or species habitat may occur within area |
| Marsdenia brevifolia [64585] | Vulnerable | Species or species habitat likely to occur within area |
| Phaius australis Lesser Swamp-orchid [5872] | Endangered | Species or species habitat likely to occur within area |
| Phaius pictus [22564] | Vulnerable | Species or species habitat likely to occur within area |
| Phalaenopsis amabilis subsp. rosenstromii Native Moth Orchid [87535] | Endangered | Species or species habitat may occur within area |
| Tephrosia leveillei [16946] | Vulnerable | Species or species habitat likely to occur within area |
| Tropilis callitrophilis Thin Feather Orchid [82771] | Vulnerable | Species or species habitat may occur within area |
| Reptiles | | |
| Denisonia maculata Ornamental Snake [1193] | Vulnerable | Species or species habitat may occur within area |
| Egernia rugosa Yakka Skink [1420] | Vulnerable | Species or species habitat likely to occur within area |

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

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

| Name | Threatened | Type of Presence |
|--|-----------------------|--|
| Migratory Marine Birds | | |
| Apus pacificus Fork-tailed Swift [678] | | Species or species habitat likely to occur within area |
| Migratory Marine Species | | |
| Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774] | | Species or species habitat likely to occur within area |
| Migratory Terrestrial Species | | |
| Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651] | | Species or species habitat known to occur within area |
| Hirundapus caudacutus White-throated Needletail [682] | | Species or species habitat may occur within area |
| Hirundo rustica Barn Swallow [662] | | Species or species habitat may occur within area |
| Monarcha melanopsis Black-faced Monarch [609] | | Species or species habitat known to occur within area |
| Monarcha trivirgatus Spectacled Monarch [610] | | Species or species habitat known to occur within area |
| Motacilla cinerea Grey Wagtail [642] | | Species or species habitat may occur within area |
| Motacilla flava Yellow Wagtail [644] | | Species or species habitat likely to occur within area |
| Myiagra cyanoleuca Satin Flycatcher [612] | | Species or species habitat known to occur within area |
| Rhipidura rufifrons Rufous Fantail [592] | | Species or species habitat known to occur within area |
| Migratory Wetlands Species | | |
| Actitis hypoleucos Common Sandpiper [59309] | | Species or species habitat may occur within area |
| Calidris acuminata Sharp-tailed Sandpiper [874] | | Species or species habitat known to occur within area |
| Calidris ferruginea Curlew Sandpiper [856] | Critically Endangered | Species or species habitat known to occur within area |
| Calidris melanotos Pectoral Sandpiper [858] | | Species or species habitat may occur within area |
| Gallinago hardwickii Latham's Snipe, Japanese Snipe [863] | | Species or species habitat may occur within area |
| Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847] | Critically Endangered | Species or species |

| Name | Threatened | Type of Presence |
|---|------------|---|
| Pandion haliaetus Osprey [952] | | habitat may occur within area Species or species habitat likely to occur within area |
| Tringa nebularia Common Greenshank, Greenshank [832] | | Species or species habitat may occur within area |

Other Matters Protected by the EPBC Act

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

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

| Name | Threatened | Type of Presence |
|--|-----------------------|--|
| 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 |
| Ardea alba Great Egret, White Egret [59541] | | Breeding known to occur within area |
| Ardea ibis Cattle Egret [59542] | | Species or species habitat may occur within area |
| Calidris acuminata Sharp-tailed Sandpiper [874] | | Species or species habitat known to occur within area |
| Calidris ferruginea Curlew Sandpiper [856] | Critically Endangered | Species or species habitat known to occur within area |
| Calidris melanotos Pectoral Sandpiper [858] | | Species or species habitat may occur within area |
| Cuculus saturatus Oriental Cuckoo, Himalayan Cuckoo [710] | | Species or species habitat known to occur within area |
| Gallinago hardwickii Latham's Snipe, Japanese Snipe [863] | | Species or species habitat may occur within area |
| Haliaeetus leucogaster White-bellied Sea-Eagle [943] | | Species or species |

| Name | Threatened | Type of Presence |
|---|-----------------------|--|
| Hirundapus caudacutus White-throated Needletail [682] | | habitat known to occur within area Species or species habitat may occur within area |
| Hirundo rustica Barn Swallow [662] | | Species or species habitat may occur within area |
| Merops ornatus Rainbow Bee-eater [670] | | Species or species habitat may occur within area |
| Monarcha melanopsis Black-faced Monarch [609] | | Species or species habitat known to occur within area |
| Monarcha trivirgatus Spectacled Monarch [610] | | Species or species habitat known to occur within area |
| Motacilla cinerea Grey Wagtail [642] | | Species or species habitat may occur within area |
| Motacilla flava Yellow Wagtail [644] | | Species or species habitat likely to occur within area |
| Myiagra cyanoleuca Satin Flycatcher [612] | | Species or species habitat known 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 |
| Rhipidura rufifrons Rufous Fantail [592] | | Species or species habitat known to occur within area |
| Rostratula benghalensis (sensu lato) Painted Snipe [889] | Endangered* | Species or species habitat likely to occur within area |
| Tringa nebularia Common Greenshank, Greenshank [832] | | Species or species habitat may occur within area |
| Reptiles | | |
| Crocodylus johnstoni Freshwater Crocodile, Johnston's Crocodile, Johnston's River Crocodile [1773] | | Species or species habitat may occur within area |
| 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 |
|--------------------------|-------|
| Blackbraes | QLD |
| Blackbraes | QLD |
| Craig's Pocket | QLD |
| Eagle's View | QLD |
| Forty Mile Scrub | QLD |
| Girringun | QLD |
| Girringun | QLD |
| Girringun 1 | QLD |
| Girringun 2 | QLD |
| Glen Eagle | QLD |
| Glenlofty | QLD |
| Goanna Spring | QLD |
| Kennedy Road Gravel | QLD |
| Kinrara | QLD |
| Moonstone Hill | QLD |
| Mount Rosey | QLD |
| Newcastle Range-The Oaks | QLD |
| Undara Volcanic | QLD |
| Werrington | QLD |

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

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

| Name | Status | Type of Presence |
|------|--------|------------------|
|------|--------|------------------|

Birds

| | | |
|--|--|--|
| Acridotheres tristis Common Myna, Indian Myna [387] | | Species or species habitat likely to occur within area |
| Anas platyrhynchos Mallard [974] | | Species or species habitat likely to occur within area |
| 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 |
| Streptopelia chinensis Spotted Turtle-Dove [780] | | Species or species habitat likely to occur within area |
| Sturnus vulgaris Common Starling [389] | | 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

| | | |
|------------------------------------|--|--------------------|
| Bos taurus Domestic Cattle [16] | | Species or species |
|------------------------------------|--|--------------------|

| Name | Status | Type of Presence |
|--|--------|---|
| Canis lupus familiaris Domestic Dog [82654] | | habitat likely to occur within area Species or species habitat likely to occur within area |
| Equus caballus Horse [5] | | Species or species habitat likely to occur within area |
| Felis catus Cat, House Cat, Domestic Cat [19] | | Species or species habitat likely to occur within area |
| Feral deer Feral deer species in Australia [85733] | | Species or species habitat likely to occur within area |
| Mus musculus House Mouse [120] | | Species or species habitat likely to occur within area |
| Oryctolagus cuniculus Rabbit, European Rabbit [128] | | Species or species habitat likely to occur within area |
| Rattus rattus Black Rat, Ship Rat [84] | | Species or species habitat likely to occur within area |
| Sus scrofa Pig [6] | | Species or species habitat likely to occur within area |
| Vulpes vulpes Red Fox, Fox [18] | | Species or species habitat likely to occur within area |
| Plants | | |
| Acacia nilotica subsp. indica Prickly Acacia [6196] | | Species or species habitat may occur within area |
| Andropogon gayanus Gamba Grass [66895] | | Species or species habitat likely to occur within area |
| Annona glabra Pond Apple, Pond-apple Tree, Alligator Apple, Bullock's Heart, Cherimoya, Monkey Apple, Bobwood, Corkwood [6311] | | Species or species habitat likely to occur within area |
| Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213] | | Species or species habitat may occur within area |
| Cryptostegia grandiflora Rubber Vine, Rubbervine, India Rubber Vine, India Rubbervine, Palay Rubbervine, Purple Allamanda [18913] | | Species or species habitat likely to occur within area |
| Eichhornia crassipes Water Hyacinth, Water Orchid, Nile Lily [13466] | | Species or species habitat likely to occur within area |
| Hymenachne amplexicaulis Hymenachne, Olive Hymenachne, Water Stargrass, West Indian Grass, West Indian Marsh Grass [31754] | | Species or species habitat likely to occur within area |
| Jatropha gossypifolia Cotton-leaved Physic-Nut, Bellyache Bush, Cotton-leaf Physic Nut, Cotton-leaf Jatropha, Black Physic Nut [7507] | | Species or species habitat likely to occur within area |
| Lantana camara Lantana, Common Lantana, Kamara Lantana, | | Species or species |

| Name | Status | Type of Presence |
|---|--------|--|
| Large-leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892] Parkinsonia aculeata | | habitat likely to occur within area |
| Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse Bean [12301] | | Species or species habitat likely to occur within area |
| Parthenium hysterophorus Parthenium Weed, Bitter Weed, Carrot Grass, False Ragweed [19566] | | Species or species habitat likely to occur within area |
| Salvinia molesta Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba Weed [13665] | | Species or species habitat likely to occur within area |

Reptiles

| | | |
|---|--|--|
| Hemidactylus frenatus Asian House Gecko [1708] | | Species or species habitat likely to occur within area |
|---|--|--|

Nationally Important Wetlands

[[Resource Information](#)]

| Name | State |
|-------------------------------------|-------|
| Herbert River Gorge | QLD |
| Lake Lucy Wetlands | QLD |
| Minnamoolka Area | QLD |
| Poison Lake | QLD |
| Undara Lava Tubes | QLD |
| Valley of Lagoons | QLD |
| Wairuna Lake | QLD |
| Walters Plains Lake | QLD |

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

-18.96758 144.91516

Acknowledgements

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

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

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

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



EPBC Act Protected Matters Report

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

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

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

Report created: 17/05/18 08:41:18

[Summary](#)

[Details](#)

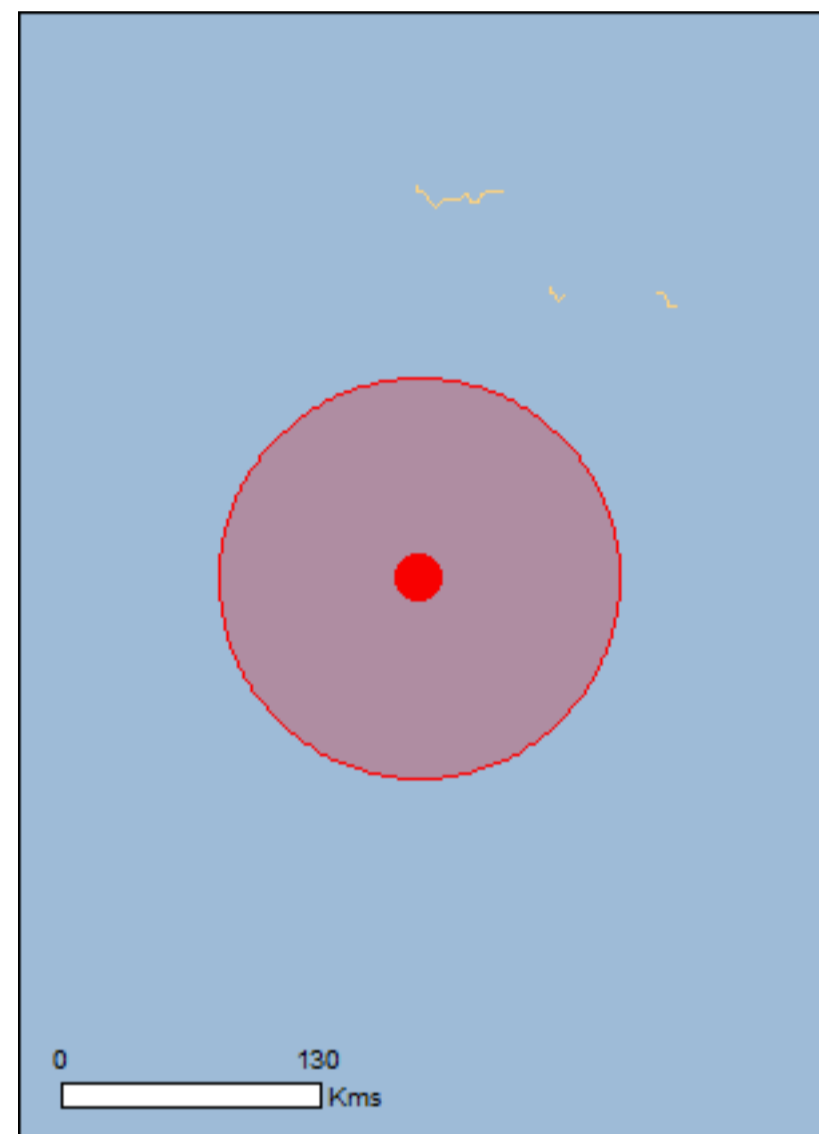
[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)



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

[Coordinates](#)

[Buffer: 100.0Km](#)



Summary

Matters of National Environmental Significance

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

| | |
|---|------|
| World Heritage Properties: | 1 |
| National Heritage Places: | 2 |
| Wetlands of International Importance: | None |
| Great Barrier Reef Marine Park: | None |
| Commonwealth Marine Area: | None |
| Listed Threatened Ecological Communities: | 1 |
| Listed Threatened Species: | 44 |
| Listed Migratory Species: | 19 |

Other Matters Protected by the EPBC Act

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

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

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

| | |
|--|------|
| Commonwealth Land: | None |
| Commonwealth Heritage Places: | None |
| Listed Marine Species: | 26 |
| Whales and Other Cetaceans: | None |
| Critical Habitats: | None |
| Commonwealth Reserves Terrestrial: | None |
| Commonwealth Reserves Marine: | 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: | 20 |
| Regional Forest Agreements: | None |
| Invasive Species: | 31 |
| Nationally Important Wetlands: | 8 |
| Key Ecological Features (Marine) | None |

Details

Matters of National Environmental Significance

World Heritage Properties [\[Resource Information \]](#)

| Name | State | Status |
|---|-------|-------------------|
| Wet Tropics of Queensland | QLD | Declared property |

National Heritage Properties [\[Resource Information \]](#)

| Name | State | Status |
|---|-------|---------------------|
| Natural | | |
| Wet Tropics of Queensland | QLD | Listed place |
| Indigenous | | |
| Wet Tropics World Heritage Area (Indigenous Values) | QLD | Within listed place |

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 |
|--|------------|---------------------------------------|
| Broad leaf tea-tree (<i>Melaleuca viridiflora</i>) woodlands in high rainfall coastal north Queensland | Endangered | Community likely to occur within area |

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

| Name | Status | Type of Presence |
|------|--------|------------------|
|------|--------|------------------|

Birds

| | | |
|---|-----------------------|---|
| Calidris ferruginea Curlew Sandpiper [856] | Critically Endangered | Species or species habitat known to occur within area |
|---|-----------------------|---|

| | | |
|---|------------|---|
| Casuarius casuarius johnsonii Southern Cassowary, Australian Cassowary, Double-wattled Cassowary [25986] | Endangered | Species or species habitat known to occur within area |
|---|------------|---|

| | | |
|--|------------|---|
| Erythrotriorchis radiatus Red Goshawk [942] | Vulnerable | Species or species habitat known to occur within area |
|--|------------|---|

| | | |
|--|------------|--|
| Erythrura gouldiae Gouldian Finch [413] | Endangered | Species or species habitat likely to 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 habitat known to occur within area |
|---|------------|---|

| | | |
|--|------------|--|
| Rostratula australis Australian Painted Snipe [77037] | Endangered | Species or species habitat likely to occur within area |
|--|------------|--|

| | | |
|--|------------|--------------------|
| Tyto novaehollandiae kimberli Masked Owl (northern) [26048] | Vulnerable | Species or species |
|--|------------|--------------------|

| Name | Status | Type of Presence |
|---|------------|--|
| habitats likely to occur within area | | |
| Frogs | | |
| Litoria dayi Australian Lace-lid, Lace-eyed Tree Frog [86707] | Endangered | Species or species habitat likely to occur within area |
| Litoria nannotis Waterfall Frog, Torrent Tree Frog [1817] | Endangered | Species or species habitat likely to occur within area |
| Litoria rheocola Common Mistfrog [1802] | Endangered | Species or species habitat may occur within area |
| Pseudophryne covacevichae Magnificent Brood Frog [64385] | Vulnerable | Species or species habitat may occur within area |
| Mammals | | |
| Bettongia tropica Northern Bettong [214] | Endangered | Species or species habitat likely to occur within area |
| Dasyurus hallucatus Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331] | Endangered | Species or species habitat likely to occur within area |
| Dasyurus maculatus gracilis Spotted-tailed Quoll (North Queensland), Yarri [64475] | Endangered | Species or species habitat likely to occur within area |
| Hipposideros semoni Semon's Leaf-nosed Bat, Greater Wart-nosed Horseshoe-bat [180] | Vulnerable | Species or species habitat may occur within area |
| Macroderma gigas Ghost Bat [174] | Vulnerable | Breeding likely to occur within area |
| Mesembriomys gouldii rattoides Black-footed Tree-rat (north Queensland), Shaggy Rabbit-rat [87620] | Vulnerable | Species or species habitat likely to occur within area |
| Petauroides volans Greater Glider [254] | Vulnerable | Species or species habitat known to occur within area |
| Petrogale sharmani Mount Claro Rock Wallaby, Sharman's Rock Wallaby [59281] | Vulnerable | Species or species habitat known 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 conspicillatus Spectacled Flying-fox [185] | 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 |
| Rhinolophus robertsi Large-eared Horseshoe Bat, Greater Large-eared Horseshoe Bat [87639] | Vulnerable | Species or species habitat known to occur within area |
| Saccolaimus saccolaimus nudicluniatus Bare-rumped Sheath-tailed Bat, Bare-rumped Sheath-tail Bat [66889] | Vulnerable | Species or species habitat likely to occur within area |

Plants

| Name | Status | Type of Presence |
|---|------------|--|
| Acacia crombiei Pink Gidgee [10927] | Vulnerable | Species or species habitat known to occur within area |
| Bulbophyllum globuliforme Miniature Moss-orchid, Hoop Pine Orchid [6649] | Vulnerable | Species or species habitat likely to occur within area |
| Cajanus mareebensis [8635] | Endangered | Species or species habitat likely to occur within area |
| Cycas cairnsiana a cycad [5780] | Vulnerable | Species or species habitat likely to occur within area |
| Cycas platyphylla a cycad [55796] | Vulnerable | Species or species habitat likely to occur within area |
| Dichanthium queenslandicum King Blue-grass [5481] | Endangered | Species or species habitat likely to occur within area |
| Dichanthium setosum bluegrass [14159] | Vulnerable | Species or species habitat known to occur within area |
| Grevillea glossadenia [7979] | Vulnerable | Species or species habitat known to occur within area |
| Lindsaea pulchella var. blanda [20842] | Vulnerable | Species or species habitat may occur within area |
| Macropteranthes montana [9003] | Vulnerable | Species or species habitat may occur within area |
| Marsdenia brevifolia [64585] | Vulnerable | Species or species habitat likely to occur within area |
| Phaius australis Lesser Swamp-orchid [5872] | Endangered | Species or species habitat likely to occur within area |
| Phaius pictus [22564] | Vulnerable | Species or species habitat likely to occur within area |
| Phalaenopsis amabilis subsp. rosenstromii Native Moth Orchid [87535] | Endangered | Species or species habitat may occur within area |
| Tephrosia leveillei [16946] | Vulnerable | Species or species habitat likely to occur within area |
| Tropilis callitrophilis Thin Feather Orchid [82771] | Vulnerable | Species or species habitat may occur within area |
| Reptiles | | |
| Denisonia maculata Ornamental Snake [1193] | Vulnerable | Species or species habitat may occur within area |
| Egernia rugosa Yakka Skink [1420] | Vulnerable | Species or species habitat likely to occur within area |

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

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

| Name | Threatened | Type of Presence |
|--|-----------------------|--|
| Migratory Marine Birds | | |
| Apus pacificus | | |
| Fork-tailed Swift [678] | | Species or species habitat likely to occur within area |
| Migratory Marine Species | | |
| Crocodylus porosus | | |
| Salt-water Crocodile, Estuarine Crocodile [1774] | | Species or species habitat likely to occur within area |
| Migratory Terrestrial Species | | |
| Cuculus optatus | | |
| Oriental Cuckoo, Horsfield's Cuckoo [86651] | | Species or species habitat known to occur within area |
| Hirundapus caudacutus | | |
| White-throated Needletail [682] | | Species or species habitat may occur within area |
| Hirundo rustica | | |
| Barn Swallow [662] | | Species or species habitat may occur within area |
| Monarcha melanopsis | | |
| Black-faced Monarch [609] | | Species or species habitat known to occur within area |
| Monarcha trivirgatus | | |
| Spectacled Monarch [610] | | Species or species habitat known to occur within area |
| Motacilla cinerea | | |
| Grey Wagtail [642] | | Species or species habitat may occur within area |
| Motacilla flava | | |
| Yellow Wagtail [644] | | Species or species habitat likely to occur within area |
| Myiagra cyanoleuca | | |
| Satin Flycatcher [612] | | Species or species habitat known to occur within area |
| Rhipidura rufifrons | | |
| Rufous Fantail [592] | | Species or species habitat known to occur within area |
| Migratory Wetlands Species | | |
| Actitis hypoleucos | | |
| Common Sandpiper [59309] | | Species or species habitat may occur within area |
| Calidris acuminata | | |
| Sharp-tailed Sandpiper [874] | | Species or species habitat known to occur within area |
| Calidris ferruginea | | |
| Curlew Sandpiper [856] | Critically Endangered | Species or species habitat known to occur within area |
| Calidris melanotos | | |
| Pectoral Sandpiper [858] | | Species or species habitat may occur within area |
| Gallinago hardwickii | | |
| Latham's Snipe, Japanese Snipe [863] | | Species or species habitat may occur within area |
| Numenius madagascariensis | | |
| Eastern Curlew, Far Eastern Curlew [847] | Critically Endangered | Species or species |

| Name | Threatened | Type of Presence |
|---|------------|---|
| Pandion haliaetus Osprey [952] | | habitat may occur within area Species or species habitat likely to occur within area |
| Tringa nebularia Common Greenshank, Greenshank [832] | | Species or species habitat may occur within area |

Other Matters Protected by the EPBC Act

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

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

| Name | Threatened | Type of Presence |
|--|-----------------------|--|
| 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 |
| Ardea alba Great Egret, White Egret [59541] | | Breeding known to occur within area |
| Ardea ibis Cattle Egret [59542] | | Species or species habitat may occur within area |
| Calidris acuminata Sharp-tailed Sandpiper [874] | | Species or species habitat known to occur within area |
| Calidris ferruginea Curlew Sandpiper [856] | Critically Endangered | Species or species habitat known to occur within area |
| Calidris melanotos Pectoral Sandpiper [858] | | Species or species habitat may occur within area |
| Cuculus saturatus Oriental Cuckoo, Himalayan Cuckoo [710] | | Species or species habitat known to occur within area |
| Gallinago hardwickii Latham's Snipe, Japanese Snipe [863] | | Species or species habitat may occur within area |
| Haliaeetus leucogaster White-bellied Sea-Eagle [943] | | Species or species |

| Name | Threatened | Type of Presence |
|---|-----------------------|--|
| Hirundapus caudacutus White-throated Needletail [682] | | habitat known to occur within area Species or species habitat may occur within area |
| Hirundo rustica Barn Swallow [662] | | Species or species habitat may occur within area |
| Merops ornatus Rainbow Bee-eater [670] | | Species or species habitat may occur within area |
| Monarcha melanopsis Black-faced Monarch [609] | | Species or species habitat known to occur within area |
| Monarcha trivirgatus Spectacled Monarch [610] | | Species or species habitat known to occur within area |
| Motacilla cinerea Grey Wagtail [642] | | Species or species habitat may occur within area |
| Motacilla flava Yellow Wagtail [644] | | Species or species habitat likely to occur within area |
| Myiagra cyanoleuca Satin Flycatcher [612] | | Species or species habitat known 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 |
| Rhipidura rufifrons Rufous Fantail [592] | | Species or species habitat known to occur within area |
| Rostratula benghalensis (sensu lato) Painted Snipe [889] | Endangered* | Species or species habitat likely to occur within area |
| Tringa nebularia Common Greenshank, Greenshank [832] | | Species or species habitat may occur within area |
| Reptiles | | |
| Crocodylus johnstoni Freshwater Crocodile, Johnston's Crocodile, Johnston's River Crocodile [1773] | | Species or species habitat may occur within area |
| 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 |
|--------------------------|-------|
| Blackbraes | QLD |
| Blackbraes | QLD |
| Craig's Pocket | QLD |
| Eagle's View | QLD |
| Forty Mile Scrub | QLD |
| Girringun | QLD |
| Girringun | QLD |
| Girringun 1 | QLD |
| Girringun 2 | QLD |
| Glen Eagle | QLD |
| Glenlofty | QLD |
| Goanna Spring | QLD |
| Kennedy Road Gravel | QLD |
| Kinrara | QLD |
| Liefway | QLD |
| Moonstone Hill | QLD |
| Mount Rosey | QLD |
| Newcastle Range-The Oaks | QLD |
| Undara Volcanic | QLD |
| Werrington | QLD |

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

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

| Name | Status | Type of Presence |
|------|--------|------------------|
|------|--------|------------------|

Birds

| | | |
|--|--|--|
| Acridotheres tristis Common Myna, Indian Myna [387] | | Species or species habitat likely to occur within area |
| Anas platyrhynchos Mallard [974] | | Species or species habitat likely to occur within area |
| 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 |
| Streptopelia chinensis Spotted Turtle-Dove [780] | | Species or species habitat likely to occur within area |
| Sturnus vulgaris Common Starling [389] | | 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

| Name | Status | Type of Presence |
|--|--------|--|
| Bos taurus Domestic Cattle [16] | | Species or species habitat likely to occur within area |
| Canis lupus familiaris Domestic Dog [82654] | | Species or species habitat likely to occur within area |
| Equus caballus Horse [5] | | Species or species habitat likely to occur within area |
| Felis catus Cat, House Cat, Domestic Cat [19] | | Species or species habitat likely to occur within area |
| Feral deer Feral deer species in Australia [85733] | | Species or species habitat likely to occur within area |
| Mus musculus House Mouse [120] | | Species or species habitat likely to occur within area |
| Oryctolagus cuniculus Rabbit, European Rabbit [128] | | Species or species habitat likely to occur within area |
| Rattus rattus Black Rat, Ship Rat [84] | | Species or species habitat likely to occur within area |
| Sus scrofa Pig [6] | | Species or species habitat likely to occur within area |
| Vulpes vulpes Red Fox, Fox [18] | | Species or species habitat likely to occur within area |
| Plants | | |
| Acacia nilotica subsp. indica Prickly Acacia [6196] | | Species or species habitat may occur within area |
| Andropogon gayanus Gamba Grass [66895] | | Species or species habitat likely to occur within area |
| Annona glabra Pond Apple, Pond-apple Tree, Alligator Apple, Bullock's Heart, Cherimoya, Monkey Apple, Bobwood, Corkwood [6311] | | Species or species habitat likely to occur within area |
| Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213] | | Species or species habitat may occur within area |
| Cryptostegia grandiflora Rubber Vine, Rubbervine, India Rubber Vine, India Rubbervine, Palay Rubbervine, Purple Allamanda [18913] | | Species or species habitat likely to occur within area |
| Eichhornia crassipes Water Hyacinth, Water Orchid, Nile Lily [13466] | | Species or species habitat likely to occur within area |
| Hymenachne amplexicaulis Hymenachne, Olive Hymenachne, Water Stargrass, West Indian Grass, West Indian Marsh Grass [31754] | | Species or species habitat likely to occur within area |
| Jatropha gossypifolia Cotton-leaved Physic-Nut, Bellyache Bush, Cotton-leaf Physic Nut, Cotton-leaf Jatropha, Black Physic Nut [7507] | | Species or species habitat likely to occur within area |

| Name | Status | Type of Presence |
|--|--------|--|
| Lantana camara Lantana, Common Lantana, Kamara Lantana, Large-leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892] | | Species or species habitat likely to occur within area |
| Parkinsonia aculeata Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse Bean [12301] | | Species or species habitat likely to occur within area |
| Parthenium hysterophorus Parthenium Weed, Bitter Weed, Carrot Grass, False Ragweed [19566] | | Species or species habitat likely to occur within area |
| Salvinia molesta Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba Weed [13665] | | Species or species habitat likely to occur within area |

Reptiles

| | | |
|---|--|--|
| Hemidactylus frenatus Asian House Gecko [1708] | | Species or species habitat likely to occur within area |
|---|--|--|

Nationally Important Wetlands

[[Resource Information](#)]

| Name | State |
|-------------------------------------|-------|
| Herbert River Gorge | QLD |
| Lake Lucy Wetlands | QLD |
| Minnamoolka Area | QLD |
| Poison Lake | QLD |
| Undara Lava Tubes | QLD |
| Valley of Lagoons | QLD |
| Wairuna Lake | QLD |
| Walters Plains Lake | QLD |

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

-19.03018 144.9562

Acknowledgements

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

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

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

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



EPBC Act Protected Matters Report

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

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

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

Report created: 17/05/18 08:40:18

[Summary](#)

[Details](#)

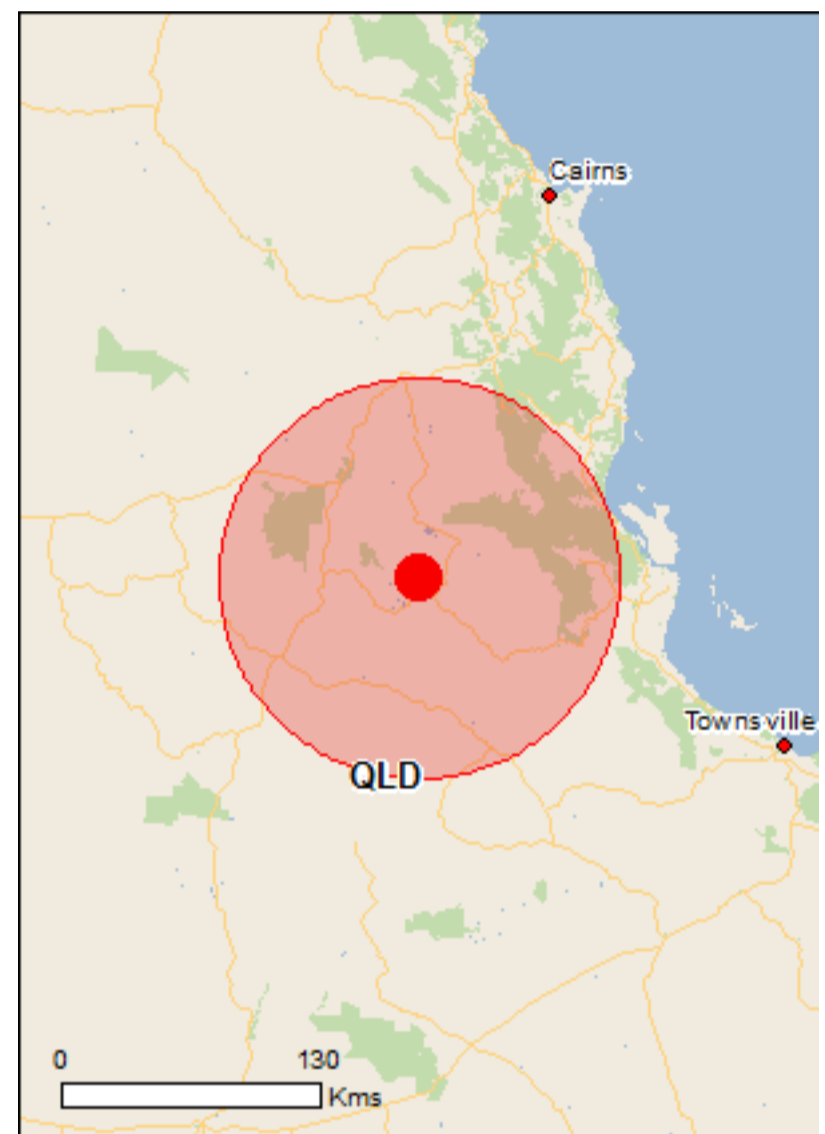
[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)



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

[Coordinates](#)

[Buffer: 100.0Km](#)



Summary

Matters of National Environmental Significance

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

| | |
|---|------|
| World Heritage Properties: | 2 |
| National Heritage Places: | 3 |
| Wetlands of International Importance: | None |
| Great Barrier Reef Marine Park: | 2 |
| Commonwealth Marine Area: | None |
| Listed Threatened Ecological Communities: | 3 |
| Listed Threatened Species: | 91 |
| Listed Migratory Species: | 57 |

Other Matters Protected by the EPBC Act

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

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

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

| | |
|--|------|
| Commonwealth Land: | None |
| Commonwealth Heritage Places: | 1 |
| Listed Marine Species: | 110 |
| Whales and Other Cetaceans: | 12 |
| Critical Habitats: | None |
| Commonwealth Reserves Terrestrial: | None |
| Commonwealth Reserves Marine: | 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: | 33 |
| Regional Forest Agreements: | None |
| Invasive Species: | 35 |
| Nationally Important Wetlands: | 16 |
| Key Ecological Features (Marine) | None |

Details

Matters of National Environmental Significance

| World Heritage Properties | | [Resource Information] |
|---|-------|--------------------------|
| Name | State | Status |
| Great Barrier Reef | QLD | Declared property |
| Wet Tropics of Queensland | QLD | Declared property |

| National Heritage Properties | | [Resource Information] |
|---|-------|--------------------------|
| Name | State | Status |
| Natural | | |
| Great Barrier Reef | QLD | Listed place |
| Wet Tropics of Queensland | QLD | Listed place |
| Indigenous | | |
| Wet Tropics World Heritage Area (Indigenous Values) | QLD | Within listed place |

| Great Barrier Reef Marine Park | | [Resource Information] |
|--------------------------------|------------|--------------------------|
| Type | Zone | IUCN |
| Conservation Park | CP-18-4046 | IV |
| General Use | GU-16-6004 | VI |

| 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 |
|---|-----------------------|---------------------------------------|
| Broad leaf tea-tree (Melaleuca viridiflora) woodlands in high rainfall coastal north Queensland | Endangered | Community likely to occur within area |
| Littoral Rainforest and Coastal Vine Thickets of Eastern Australia | Critically Endangered | Community likely to occur within area |
| Mabi Forest (Complex Notophyll Vine Forest 5b) | Critically Endangered | Community likely to occur within area |

| Listed Threatened Species | | [Resource Information] |
|---|-----------------------|---|
| Name | Status | Type of Presence |
| Birds | | |
| Calidris canutus Red Knot, Knot [855] | Endangered | Species or species habitat known to occur within area |
| Calidris ferruginea Curlew Sandpiper [856] | Critically Endangered | Species or species habitat known to occur within area |
| Calidris tenuirostris Great Knot [862] | Critically Endangered | Roosting known to occur within area |
| Casuarius casuarius johnsonii Southern Cassowary, Australian Cassowary, Double-wattled Cassowary [25986] | Endangered | Species or species habitat known to occur within area |
| Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877] | Vulnerable | Roosting known to occur within area |
| Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879] | Endangered | Roosting known to occur within area |
| Erythrotriorchis radiatus Red Goshawk [942] | Vulnerable | Species or species habitat known to occur |

| Name | Status | Type of Presence within area |
|--|-----------------------|--|
| Erythrura gouldiae Gouldian Finch [413] | Endangered | Species or species habitat known to occur within area |
| Fregetta grallaria grallaria White-bellied Storm-Petrel (Tasman Sea), White-bellied Storm-Petrel (Australasian) [64438] | Vulnerable | Species or species habitat likely to occur within area |
| Limosa lapponica baueri Bar-tailed Godwit (baueri), Western Alaskan Bar-tailed Godwit [86380] | Vulnerable | Species or species habitat known to occur within area |
| Limosa lapponica menzbieri Northern Siberian Bar-tailed Godwit, Bar-tailed Godwit (menzbieri) [86432] | Critically Endangered | 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 known to occur within area |
| Poephila cincta cincta Southern Black-throated Finch [64447] | Endangered | Species or species habitat known to occur within area |
| Rostratula australis Australian Painted Snipe [77037] | Endangered | Species or species habitat likely to occur within area |
| Tyto novaehollandiae kimberli Masked Owl (northern) [26048] | Vulnerable | Species or species habitat known to occur within area |
| Frogs | | |
| Litoria dayi Australian Lace-lid, Lace-eyed Tree Frog [86707] | Endangered | Species or species habitat known to occur within area |
| Litoria nannotis Waterfall Frog, Torrent Tree Frog [1817] | Endangered | Species or species habitat known to occur within area |
| Litoria nyakalensis Mountain Mistfrog [1820] | Critically Endangered | Species or species habitat likely to occur within area |
| Litoria rheocola Common Mistfrog [1802] | Endangered | Species or species habitat known to occur within area |
| Pseudophryne covacevichae Magnificent Brood Frog [64385] | Vulnerable | Species or species habitat known to occur within area |
| Mammals | | |
| Balaenoptera musculus Blue Whale [36] | Endangered | Species or species habitat may occur within area |
| Bettongia tropica Northern Bettong [214] | Endangered | Species or species habitat likely to occur within area |
| Dasyurus hallucatus Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331] | Endangered | Species or species habitat known to occur within area |
| Dasyurus maculatus gracilis Spotted-tailed Quoll (North Queensland), Yarri | Endangered | Species or species |

| Name | Status | Type of Presence |
|---|-----------------------|--|
| [64475] | | habitat known to occur within area |
| Hipposideros semoni Semon's Leaf-nosed Bat, Greater Wart-nosed Horseshoe-bat [180] | Vulnerable | Species or species habitat may occur within area |
| Macroderma gigas Ghost Bat [174] | Vulnerable | Breeding likely to occur within area |
| Megaptera novaeangliae Humpback Whale [38] | Vulnerable | Species or species habitat known to occur within area |
| Mesembriomys gouldii rattoides Black-footed Tree-rat (north Queensland), Shaggy Rabbit-rat [87620] | Vulnerable | Species or species habitat known to occur within area |
| Petauroides volans Greater Glider [254] | Vulnerable | Species or species habitat known to occur within area |
| Petaurus australis Wet Tropics subspecies Yellow-bellied Glider (Wet Tropics), Fluffy Glider [88022] | Vulnerable | Foraging, feeding or related behaviour known to occur within area |
| Petaurus gracilis Mahogany Glider [26775] | Endangered | Species or species habitat likely to occur within area |
| Petrogale sharmani Mount Claro Rock Wallaby, Sharman's Rock Wallaby [59281] | Vulnerable | Species or species habitat known 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 conspicillatus Spectacled Flying-fox [185] | 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 |
| Rhinolophus robertsi Large-eared Horseshoe Bat, Greater Large-eared Horseshoe Bat [87639] | Vulnerable | Species or species habitat known to occur within area |
| Saccolaimus saccolaimus nudicluniatus Bare-rumped Sheath-tailed Bat, Bare-rumped Sheath-tail Bat [66889] | Vulnerable | Species or species habitat known to occur within area |
| Xeromys myoides Water Mouse, False Water Rat, Yirrkoo [66] | Vulnerable | Species or species habitat may occur within area |
| Plants | | |
| Acacia crombiei Pink Gidgee [10927] | Vulnerable | Species or species habitat known to occur within area |
| Acacia purpureopetala [61156] | Critically Endangered | Species or species habitat likely to occur within area |
| Alloxylon flammeum Red Silky Oak, Queensland Waratah, Tree Waratah [56400] | Vulnerable | Species or species habitat known to occur within area |
| Aponogeton bullosus [8299] | Endangered | Species or species habitat likely to occur |

| Name | Status | Type of Presence within area |
|---|------------|--|
| Bulbophyllum globuliforme Miniature Moss-orchid, Hoop Pine Orchid [6649] | Vulnerable | Species or species habitat likely to occur within area |
| Cajanus mareebensis [8635] | Endangered | Species or species habitat known to occur within area |
| Canarium acutifolium [23956] | Vulnerable | Species or species habitat known to occur within area |
| Carronia pedicellata [24178] | Endangered | Species or species habitat likely to occur within area |
| Chingia australis [24603] | Endangered | Species or species habitat may occur within area |
| Corymbia leptoloma Yellowjacket [64101] | Vulnerable | Species or species habitat known to occur within area |
| Corymbia rhodops [64015] | Vulnerable | Species or species habitat may occur within area |
| Cycas cairnsiana a cycad [5780] | Vulnerable | Species or species habitat likely to occur within area |
| Cycas platyphylla a cycad [55796] | Vulnerable | Species or species habitat likely to occur within area |
| Cyperus cephalotes [10265] | Endangered | Species or species habitat may occur within area |
| Dichanthium queenslandicum King Blue-grass [5481] | Endangered | Species or species habitat likely to occur within area |
| Dichanthium setosum bluegrass [14159] | Vulnerable | Species or species habitat known to occur within area |
| Euphorbia carissoides [12431] | Vulnerable | Species or species habitat likely to occur within area |
| Genoplesium tectum Cardwell Midge Orchid [55130] | Endangered | Species or species habitat known to occur within area |
| Grevillea glossadenia [7979] | Vulnerable | Species or species habitat known to occur within area |
| Homoranthus porteri [55196] | Vulnerable | Species or species habitat may occur within area |
| Lastreopsis walleri a fern [18229] | Vulnerable | Species or species habitat likely to occur within area |
| Lindsaea pulchella var. blanda [20842] | Vulnerable | Species or species habitat likely to occur within area |

| Name | Status | Type of Presence |
|---|-----------------------|--|
| Macropteranthes montana [9003] | Vulnerable | Species or species habitat may occur within area |
| Marsdenia brevifolia [64585] | Vulnerable | Species or species habitat likely to occur within area |
| Myrmecodia beccarii Ant Plant [11852] | Vulnerable | Species or species habitat known to occur within area |
| Phaius australis Lesser Swamp-orchid [5872] | Endangered | Species or species habitat likely to occur within area |
| Phaius pictus [22564] | Vulnerable | Species or species habitat likely to occur within area |
| Phalaenopsis amabilis subsp. rosenstromii Native Moth Orchid [87535] | Endangered | Species or species habitat may occur within area |
| Phlegmariurus filiformis Rat's Tail Tassel-fern [86551] | Endangered | Species or species habitat may occur within area |
| Phlegmariurus lockyeri [86552] | Vulnerable | Species or species habitat may occur within area |
| Phlegmariurus marsupiiiformis Water Tassel-fern [86553] | Vulnerable | Species or species habitat likely to occur within area |
| Phlegmariurus tetrastichooides Square Tassel Fern [86555] | Vulnerable | Species or species habitat likely to occur within area |
| Polyphlebium endlicherianum Middle Filmy Fern [87494] | Endangered | Species or species habitat likely to occur within area |
| Prostanthera clotteniana [76165] | Critically Endangered | Species or species habitat may occur within area |
| Tephrosia leveillei [16946] | Vulnerable | Species or species habitat likely to occur within area |
| Triplarina nitchaga [64593] | Vulnerable | Species or species habitat likely to occur within area |
| Tropilis callitrophilis Thin Feather Orchid [82771] | Vulnerable | Species or species habitat known to occur within area |
| Vappodes lithocola Dwarf Butterfly Orchid, Cooktown Orchid [78893] | Endangered | Species or species habitat may occur within area |
| Zeuxine polygonoides Velvet Jewel Orchid [46794] | Vulnerable | Species or species habitat likely to occur within area |
| Reptiles | | |
| Caretta caretta Loggerhead Turtle [1763] | Endangered | Species or species habitat known to occur within area |

| Name | Status | Type of Presence |
|--|------------|--|
| Chelonia mydas Green Turtle [1765] | Vulnerable | Breeding known to occur within area |
| Delma mitella Atherton Delma, Legless Lizard [25931] | Vulnerable | Species or species habitat known to occur within area |
| Denisonia maculata Ornamental Snake [1193] | Vulnerable | Species or species habitat may occur within area |
| Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768] | Endangered | Breeding likely to occur within area |
| Egernia rugosa Yakka Skink [1420] | Vulnerable | Species or species habitat likely to occur within area |
| Eretmochelys imbricata Hawksbill Turtle [1766] | Vulnerable | Species or species habitat known to occur within area |
| Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767] | Endangered | Breeding likely to occur within area |
| Natator depressus Flatback Turtle [59257] | Vulnerable | Breeding known to occur within area |
| Sharks | | |
| Carcharodon carcharias White Shark, Great White Shark [64470] | Vulnerable | Species or species habitat may occur within area |
| Pristis pristis Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756] | Vulnerable | Species or species habitat known to occur within area |
| Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442] | Vulnerable | Breeding likely to occur within area |
| Rhincodon typus Whale Shark [66680] | Vulnerable | Species or species habitat may occur within area |
| Listed Migratory Species | | [<u>Resource Information</u>] |
| * Species is listed under a different scientific name on the EPBC Act - Threatened Species list. | | |
| Name | Threatened | Type of Presence |
| Migratory Marine Birds | | |
| Anous stolidus Common Noddy [825] | | Species or species habitat likely to occur within area |
| Apus pacificus Fork-tailed Swift [678] | | Species or species habitat likely to occur within area |
| Fregata ariel Lesser Frigatebird, Least Frigatebird [1012] | | Species or species habitat likely to occur within area |
| Fregata minor Great Frigatebird, Greater Frigatebird [1013] | | Species or species habitat likely to occur within area |
| Sternula albifrons Little Tern [82849] | | Species or species habitat may occur within area |
| Migratory Marine Species | | |
| Anoxypristis cuspidata Narrow Sawfish, Knifetooth Sawfish [68448] | | Species or species |

| Name | Threatened | Type of Presence |
|--|------------|---|
| Balaenoptera edeni Bryde's Whale [35] | | habitat likely to occur within area Species or species habitat may occur within area |
| Balaenoptera musculus Blue Whale [36] | Endangered | Species or species habitat may occur within area |
| Carcharodon carcharias White Shark, Great White Shark [64470] | Vulnerable | Species or species habitat may occur within area |
| Caretta caretta Loggerhead Turtle [1763] | Endangered | Species or species habitat known to occur within area |
| Chelonia mydas Green Turtle [1765] | Vulnerable | Breeding known to occur within area |
| Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774] | | Species or species habitat likely to occur within area |
| Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768] | Endangered | Breeding likely to occur within area |
| Dugong dugon Dugong [28] | | Species or species habitat known to occur within area |
| Eretmochelys imbricata Hawksbill Turtle [1766] | Vulnerable | Species or species habitat known to occur within area |
| Lamna nasus Porbeagle, Mackerel Shark [83288] | | Species or species habitat may occur within area |
| Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767] | Endangered | Breeding likely to occur within area |
| Manta alfredi Reef Manta Ray, Coastal Manta Ray, Inshore Manta Ray, Prince Alfred's Ray, Resident Manta Ray [84994] | | Species or species habitat may occur within area |
| Manta birostris Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995] | | Species or species habitat may occur within area |
| Megaptera novaeangliae Humpback Whale [38] | Vulnerable | Species or species habitat known to occur within area |
| Natator depressus Flatback Turtle [59257] | Vulnerable | Breeding known to occur within area |
| Orcaella brevirostris Irrawaddy Dolphin [45] | | Species or species habitat known to occur within area |
| Orcinus orca Killer Whale, Orca [46] | | Species or species habitat may occur within area |
| Pristis pristis Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756] | Vulnerable | Species or species habitat known to occur within area |
| Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442] | Vulnerable | Breeding likely to occur within area |

| Name | Threatened | Type of Presence |
|--|-----------------------|--|
| Rhincodon typus Whale Shark [66680] | Vulnerable | Species or species habitat may occur within area |
| Sousa chinensis Indo-Pacific Humpback Dolphin [50] | | Breeding known to occur within area |
| Migratory Terrestrial Species | | |
| Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651] | | Species or species habitat known to occur within area |
| Hirundapus caudacutus White-throated Needletail [682] | | Species or species habitat known to occur within area |
| Hirundo rustica Barn Swallow [662] | | Species or species habitat likely to occur within area |
| Monarcha melanopsis Black-faced Monarch [609] | | Species or species habitat known to occur within area |
| Monarcha trivirgatus Spectacled Monarch [610] | | Species or species habitat known to occur within area |
| Motacilla cinerea Grey Wagtail [642] | | Species or species habitat may occur within area |
| Motacilla flava Yellow Wagtail [644] | | Species or species habitat likely to occur within area |
| Myiagra cyanoleuca Satin Flycatcher [612] | | Species or species habitat known to occur within area |
| Rhipidura rufifrons Rufous Fantail [592] | | Species or species habitat known to occur within area |
| Migratory Wetlands Species | | |
| Actitis hypoleucos Common Sandpiper [59309] | | Species or species habitat known to occur within area |
| Calidris acuminata Sharp-tailed Sandpiper [874] | | Species or species habitat known to occur within area |
| Calidris canutus Red Knot, Knot [855] | Endangered | Species or species habitat known to occur within area |
| Calidris ferruginea Curlew Sandpiper [856] | Critically Endangered | Species or species habitat known to occur within area |
| Calidris melanotos Pectoral Sandpiper [858] | | Species or species habitat may occur within area |
| Calidris ruficollis Red-necked Stint [860] | | Roosting known to occur within area |
| Calidris tenuirostris Great Knot [862] | Critically Endangered | Roosting known to occur within area |
| Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877] | Vulnerable | Roosting known to occur |

| Name | Threatened | Type of Presence within area |
|---|-----------------------|---|
| Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879] | Endangered | Roosting known to occur within area |
| Gallinago hardwickii Latham's Snipe, Japanese Snipe [863] | | Roosting may occur within area |
| Gallinago megala Swinhoe's Snipe [864] | | Roosting likely to occur within area |
| Gallinago stenura Pin-tailed Snipe [841] | | Roosting likely to occur within area |
| Limosa lapponica Bar-tailed Godwit [844] | | Species or species habitat known to occur within area |
| Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847] | Critically Endangered | Species or species habitat known to occur within area |
| Numenius minutus Little Curlew, Little Whimbrel [848] | | Roosting likely to occur within area |
| Numenius phaeopus Whimbrel [849] | | Roosting known to occur within area |
| Pandion haliaetus Osprey [952] | | Species or species habitat known to occur within area |
| Pluvialis squatarola Grey Plover [865] | | Roosting known to occur within area |
| Tringa brevipes Grey-tailed Tattler [851] | | Roosting known to occur within area |
| Tringa nebularia Common Greenshank, Greenshank [832] | | Species or species habitat known to occur within area |
| Xenus cinereus Terek Sandpiper [59300] | | Roosting known to occur within area |

Other Matters Protected by the EPBC Act

| Commonwealth Heritage Places | | [Resource Information] |
|--|------------|--|
| Name | State | Status |
| Natural | | |
| Tully Training Area | QLD | Listed place |
| Listed Marine Species | | [Resource Information] |
| * Species is listed under a different scientific name on the EPBC Act - Threatened Species list. | | |
| Name | Threatened | Type of Presence |
| Birds | | |
| Actitis hypoleucos Common Sandpiper [59309] | | Species or species habitat known to occur within area |
| Anous stolidus Common Noddy [825] | | Species or species habitat likely to occur within area |
| Anseranas semipalmata Magpie Goose [978] | | Species or species habitat may occur within area |

| Name | Threatened | Type of Presence |
|--|-----------------------|--|
| Apus pacificus Fork-tailed Swift [678] | | Species or species habitat likely to occur within area |
| Ardea alba Great Egret, White Egret [59541] | | Breeding known to occur within area |
| Ardea ibis Cattle Egret [59542] | | Species or species habitat may occur within area |
| Calidris acuminata Sharp-tailed Sandpiper [874] | | Species or species habitat known to occur within area |
| Calidris canutus Red Knot, Knot [855] | Endangered | Species or species habitat known to occur within area |
| Calidris ferruginea Curlew Sandpiper [856] | Critically Endangered | Species or species habitat known to occur within area |
| Calidris melanotos Pectoral Sandpiper [858] | | Species or species habitat may occur within area |
| Calidris ruficollis Red-necked Stint [860] | | Roosting known to occur within area |
| Calidris tenuirostris Great Knot [862] | Critically Endangered | Roosting known to occur within area |
| Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877] | Vulnerable | Roosting known to occur within area |
| Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879] | Endangered | Roosting known to occur within area |
| Cuculus saturatus Oriental Cuckoo, Himalayan Cuckoo [710] | | Species or species habitat known to occur within area |
| Fregata ariel Lesser Frigatebird, Least Frigatebird [1012] | | Species or species habitat likely to occur within area |
| Fregata minor Great Frigatebird, Greater Frigatebird [1013] | | Species or species habitat likely to occur within area |
| Gallinago hardwickii Latham's Snipe, Japanese Snipe [863] | | Roosting may occur within area |
| Gallinago megala Swinhoe's Snipe [864] | | Roosting likely to occur within area |
| Gallinago stenura Pin-tailed Snipe [841] | | Roosting likely to occur within area |
| Haliaeetus leucogaster White-bellied Sea-Eagle [943] | | Species or species habitat known to occur within area |
| Heteroscelus brevipes Grey-tailed Tattler [59311] | | Roosting known to occur within area |
| Hirundapus caudacutus White-throated Needletail [682] | | Species or species habitat known to occur within area |

| Name | Threatened | Type of Presence |
|---|-----------------------|--|
| Hirundo rustica Barn Swallow [662] | | Species or species habitat likely to occur within area |
| Limosa lapponica Bar-tailed Godwit [844] | | Species or species habitat known to occur within area |
| Merops ornatus Rainbow Bee-eater [670] | | Species or species habitat may occur within area |
| Monarcha melanopsis Black-faced Monarch [609] | | Species or species habitat known to occur within area |
| Monarcha trivirgatus Spectacled Monarch [610] | | Species or species habitat known to occur within area |
| Motacilla cinerea Grey Wagtail [642] | | Species or species habitat may occur within area |
| Motacilla flava Yellow Wagtail [644] | | Species or species habitat likely to occur within area |
| Myiagra cyanoleuca Satin Flycatcher [612] | | Species or species habitat known to occur within area |
| Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847] | Critically Endangered | Species or species habitat known to occur within area |
| Numenius minutus Little Curlew, Little Whimbrel [848] | | Roosting likely to occur within area |
| Numenius phaeopus Whimbrel [849] | | Roosting known to occur within area |
| Pandion haliaetus Osprey [952] | | Species or species habitat known to occur within area |
| Pluvialis squatarola Grey Plover [865] | | Roosting known to occur within area |
| Rhipidura rufifrons Rufous Fantail [592] | | Species or species habitat known to occur within area |
| Rostratula benghalensis (sensu lato) Painted Snipe [889] | Endangered* | Species or species habitat likely to occur within area |
| Sterna albifrons Little Tern [813] | | Species or species habitat may occur within area |
| Tringa nebularia Common Greenshank, Greenshank [832] | | Species or species habitat known to occur within area |
| Xenus cinereus Terek Sandpiper [59300] | | Roosting known to occur within area |
| Fish | | |
| Acentronura tentaculata Shortpouch Pygmy Pipehorse [66187] | | Species or species habitat may occur within area |

| Name | Threatened | Type of Presence |
|--|------------|--|
| Bulbonaricus davaoensis Davao Pughead Pipefish [66190] | | Species or species habitat may occur within area |
| Choeroichthys brachysoma Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194] | | Species or species habitat may occur within area |
| Choeroichthys sculptus Sculptured Pipefish [66197] | | Species or species habitat may occur within area |
| Choeroichthys suillus Pig-snouted Pipefish [66198] | | Species or species habitat may occur within area |
| Corythoichthys amplexus Fijian Banded Pipefish, Brown-banded Pipefish [66199] | | Species or species habitat may occur within area |
| Corythoichthys flavofasciatus Reticulate Pipefish, Yellow-banded Pipefish, Network Pipefish [66200] | | Species or species habitat may occur within area |
| Corythoichthys intestinalis Australian Messmate Pipefish, Banded Pipefish [66202] | | Species or species habitat may occur within area |
| Corythoichthys ocellatus Orange-spotted Pipefish, Ocellated Pipefish [66203] | | Species or species habitat may occur within area |
| Corythoichthys paxtoni Paxton's Pipefish [66204] | | Species or species habitat may occur within area |
| Corythoichthys schultzi Schultz's Pipefish [66205] | | Species or species habitat may occur within area |
| Cosmocampus maxweberi Maxweber's Pipefish [66209] | | Species or species habitat may occur within area |
| Doryrhamphus dactyliophorus Banded Pipefish, Ringed Pipefish [66210] | | Species or species habitat may occur within area |
| Doryrhamphus excisus Bluestripe Pipefish, Indian Blue-stripe Pipefish, Pacific Blue-stripe Pipefish [66211] | | Species or species habitat may occur within area |
| Doryrhamphus janssi Cleaner Pipefish, Janss' Pipefish [66212] | | Species or species habitat may occur within area |
| Festucalex cinctus Girdled Pipefish [66214] | | Species or species habitat may occur within area |
| Festucalex gibbsi Gibbs' Pipefish [66215] | | Species or species habitat may occur within area |
| Halicampus dunckeri Red-hair Pipefish, Duncker's Pipefish [66220] | | Species or species habitat may occur within area |
| Halicampus grayi Mud Pipefish, Gray's Pipefish [66221] | | Species or species habitat may occur within area |

| Name | Threatened | Type of Presence |
|--|------------|--|
| Halicampus macrorhynchus Whiskered Pipefish, Ornate Pipefish [66222] | | Species or species habitat may occur within area |
| Halicampus matafae Samoan Pipefish [66223] | | Species or species habitat may occur within area |
| Halicampus nitidus Glittering Pipefish [66224] | | Species or species habitat may occur within area |
| Halicampus spirostris Spiny-snout Pipefish [66225] | | Species or species habitat may occur within area |
| Hippichthys cyanospilos Blue-speckled Pipefish, Blue-spotted Pipefish [66228] | | Species or species habitat may occur within area |
| Hippichthys heptagonus Madura Pipefish, Reticulated Freshwater Pipefish [66229] | | Species or species habitat may occur within area |
| Hippichthys penicillus Beady Pipefish, Steep-nosed Pipefish [66231] | | Species or species habitat may occur within area |
| Hippichthys spicifer Belly-barred Pipefish, Banded Freshwater Pipefish [66232] | | Species or species habitat may occur within area |
| Hippocampus bargibanti Pygmy Seahorse [66721] | | Species or species habitat may occur within area |
| Hippocampus histrix Spiny Seahorse, Thorny Seahorse [66236] | | Species or species habitat may occur within area |
| Hippocampus kuda Spotted Seahorse, Yellow Seahorse [66237] | | Species or species habitat may occur within area |
| Hippocampus planifrons Flat-face Seahorse [66238] | | Species or species habitat may occur within area |
| Hippocampus zebra Zebra Seahorse [66241] | | Species or species habitat may occur within area |
| Micrognathus andersonii Anderson's Pipefish, Shortnose Pipefish [66253] | | Species or species habitat may occur within area |
| Micrognathus brevisrostris thorntail Pipefish, Thorn-tailed Pipefish [66254] | | Species or species habitat may occur within area |
| Microphis brachyurus Short-tail Pipefish, Short-tailed River Pipefish [66257] | | Species or species habitat may occur within area |
| Nannocampus pictus Painted Pipefish, Reef Pipefish [66263] | | Species or species habitat may occur within area |
| Phoxocampus diacanthus Pale-blotched Pipefish, Spined Pipefish [66266] | | Species or species habitat may occur within area |

| Name | Threatened | Type of Presence |
|---|------------|--|
| Siokunichthys breviceps Softcoral Pipefish, Soft-coral Pipefish [66270] | | Species or species habitat may occur within area |
| Solegnathus hardwickii Pallid Pipehorse, Hardwick's Pipehorse [66272] | | Species or species habitat may occur within area |
| Solenostomus cyanopterus Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183] | | Species or species habitat may occur within area |
| Solenostomus paegnius Rough-snout Ghost Pipefish [68425] | | Species or species habitat may occur within area |
| Solenostomus paradoxus Ornate Ghostpipefish, Harlequin Ghost Pipefish, Ornate Ghost Pipefish [66184] | | Species or species habitat may occur within area |
| Syngnathoides biaculeatus Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279] | | Species or species habitat may occur within area |
| Trachyrhamphus bicoarctatus Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280] | | Species or species habitat may occur within area |
| Trachyrhamphus longirostris Straightstick Pipefish, Long-nosed Pipefish, Straight Stick Pipefish [66281] | | Species or species habitat may occur within area |
| Mammals | | |
| Dugong dugon Dugong [28] | | Species or species habitat known to occur within area |
| Reptiles | | |
| Acalyptophis peronii Horned Seasnake [1114] | | Species or species habitat may occur within area |
| Aipysurus duboisii Dubois' Seasnake [1116] | | Species or species habitat may occur within area |
| Aipysurus eydouxii Spine-tailed Seasnake [1117] | | Species or species habitat may occur within area |
| Aipysurus laevis Olive Seasnake [1120] | | Species or species habitat may occur within area |
| Astrotia stokesii Stokes' Seasnake [1122] | | Species or species habitat may occur within area |
| Caretta caretta Loggerhead Turtle [1763] | Endangered | Species or species habitat known to occur within area |
| Chelonia mydas Green Turtle [1765] | Vulnerable | Breeding known to occur within area |
| Crocodylus johnstoni Freshwater Crocodile, Johnston's Crocodile, Johnston's River Crocodile [1773] | | Species or species habitat may occur within area |
| Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774] | | Species or species habitat likely to occur within area |

| Name | Threatened | Type of Presence |
|--|------------|---|
| Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768] | Endangered | Breeding likely to occur within area |
| Disteira kingii Spectacled Seasnake [1123] | | Species or species habitat may occur within area |
| Disteira major Olive-headed Seasnake [1124] | | Species or species habitat may occur within area |
| Enhydrina schistosa Beaked Seasnake [1126] | | Species or species habitat may occur within area |
| Eretmochelys imbricata Hawksbill Turtle [1766] | Vulnerable | Species or species habitat known to occur within area |
| Hydrophis elegans Elegant Seasnake [1104] | | Species or species habitat may occur within area |
| Hydrophis mcdowelli null [25926] | | Species or species habitat may occur within area |
| Hydrophis ornatus Spotted Seasnake, Ornate Reef Seasnake [1111] | | Species or species habitat may occur within area |
| Lapemis hardwickii Spine-bellied Seasnake [1113] | | Species or species habitat may occur within area |
| Laticauda colubrina a sea krait [1092] | | Species or species habitat may occur within area |
| Laticauda laticaudata a sea krait [1093] | | Species or species habitat may occur within area |
| Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767] | Endangered | Breeding likely to occur within area |
| Natator depressus Flatback Turtle [59257] | Vulnerable | Breeding known to occur within area |
| Pelamis platurus Yellow-bellied Seasnake [1091] | | Species or species habitat may occur within area |

Whales and other Cetaceans

[[Resource Information](#)]

| Name | Status | Type of Presence |
|---|------------|--|
| Mammals | | |
| Balaenoptera acutorostrata Minke Whale [33] | | Species or species habitat may occur within area |
| Balaenoptera edeni Bryde's Whale [35] | | Species or species habitat may occur within area |
| Balaenoptera musculus Blue Whale [36] | Endangered | Species or species habitat may occur within area |
| Delphinus delphis Common Dolphin, Short-beaked Common Dolphin [60] | | Species or species habitat may occur within area |

| Name | Status | Type of Presence |
|---|------------|--|
| Grampus griseus Risso's Dolphin, Grampus [64] | | Species or species habitat may occur within area |
| Megaptera novaeangliae Humpback Whale [38] | Vulnerable | Species or species habitat known to occur within area |
| Orcaella brevirostris Irrawaddy Dolphin [45] | | Species or species habitat known to occur within area |
| Orcinus orca Killer Whale, Orca [46] | | Species or species habitat may occur within area |
| Sousa chinensis Indo-Pacific Humpback Dolphin [50] | | Breeding known to occur within area |
| Stenella attenuata Spotted Dolphin, Pantropical Spotted Dolphin [51] | | Species or species habitat may occur within area |
| Tursiops aduncus Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418] | | Species or species habitat likely to occur within area |
| Tursiops truncatus s. str. Bottlenose Dolphin [68417] | | Species or species habitat may occur within area |

Extra Information

| State and Territory Reserves | [Resource Information] |
|------------------------------|--------------------------|
| Name | State |
| Alcock | QLD |
| Craig's Pocket | QLD |
| Djilgarin | QLD |
| Edmund Kennedy | QLD |
| Forty Mile Scrub | QLD |
| Girramay | QLD |
| Girringun | QLD |
| Girringun | QLD |
| Girringun 1 | QLD |
| Girringun 2 | QLD |
| Glen Eagle | QLD |
| Glenlofty | QLD |
| Goanna Spring | QLD |
| Jalum | QLD |
| Kinrara | QLD |
| Kirrama | QLD |
| Koombooloomba | QLD |
| Koombooloomba | QLD |
| Koombooloomba South | QLD |
| Liefway | QLD |
| Mahogany Glider | QLD |
| Melaleuca | QLD |
| Messmate | QLD |
| Mount Rosey | QLD |
| Murray Upper Wetlands | QLD |
| Range View | QLD |
| Ravenshoe 1 | QLD |

| Name | State |
|-----------------|-------|
| Tully Falls | QLD |
| Tully Gorge | QLD |
| Undara Volcanic | QLD |
| Yabulum | QLD |
| Yourka | QLD |
| Yourka Reserve | QLD |

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

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

| Name | Status | Type of Presence |
|--|--------|--|
| Birds | | |
| Acridotheres tristis Common Myna, Indian Myna [387] | | Species or species habitat likely to occur within area |
| Anas platyrhynchos Mallard [974] | | Species or species habitat likely to occur within area |
| 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 |
| Streptopelia chinensis Spotted Turtle-Dove [780] | | Species or species habitat likely to occur within area |
| Sturnus vulgaris Common Starling [389] | | 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 | | |
| Bos taurus Domestic Cattle [16] | | Species or species habitat likely to occur within area |
| Canis lupus familiaris Domestic Dog [82654] | | Species or species habitat likely to occur within area |
| Capra hircus Goat [2] | | Species or species habitat likely to occur within area |
| Equus caballus Horse [5] | | Species or species habitat likely to occur within area |
| Felis catus Cat, House Cat, Domestic Cat [19] | | Species or species habitat likely to occur within area |

| Name | Status | Type of Presence |
|--|--------|--|
| Feral deer Feral deer species in Australia [85733] | | Species or species habitat likely to occur within area |
| Mus musculus House Mouse [120] | | Species or species habitat likely to occur within area |
| Oryctolagus cuniculus Rabbit, European Rabbit [128] | | Species or species habitat likely to occur within area |
| Rattus rattus Black Rat, Ship Rat [84] | | Species or species habitat likely to occur within area |
| Sus scrofa Pig [6] | | Species or species habitat likely to occur within area |
| Vulpes vulpes Red Fox, Fox [18] | | Species or species habitat likely to occur within area |
| Plants | | |
| Acacia nilotica subsp. indica Prickly Acacia [6196] | | Species or species habitat may occur within area |
| Andropogon gayanus Gamba Grass [66895] | | Species or species habitat likely to occur within area |
| Annona glabra Pond Apple, Pond-apple Tree, Alligator Apple, Bullock's Heart, Cherimoya, Monkey Apple, Bobwood, Corkwood [6311] | | Species or species habitat likely to occur within area |
| Cabomba caroliniana Cabomba, Fanwort, Carolina Watershield, Fish Grass, Washington Grass, Watershield, Carolina Fanwort, Common Cabomba [5171] | | Species or species habitat likely to occur within area |
| Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213] | | Species or species habitat may occur within area |
| Cryptostegia grandiflora Rubber Vine, Rubbervine, India Rubber Vine, India Rubbervine, Palay Rubbervine, Purple Allamanda [18913] | | Species or species habitat likely to occur within area |
| Eichhornia crassipes Water Hyacinth, Water Orchid, Nile Lily [13466] | | Species or species habitat likely to occur within area |
| Hymenachne amplexicaulis Hymenachne, Olive Hymenachne, Water Stargrass, West Indian Grass, West Indian Marsh Grass [31754] | | Species or species habitat likely to occur within area |
| Jatropha gossypifolia Cotton-leaved Physic-Nut, Bellyache Bush, Cotton-leaf Physic Nut, Cotton-leaf Jatropha, Black Physic Nut [7507] | | Species or species habitat likely to occur within area |
| Lantana camara Lantana, Common Lantana, Kamara Lantana, Large-leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892] | | Species or species habitat likely to occur within area |
| Parkinsonia aculeata Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse Bean [12301] | | Species or species habitat likely to occur within area |
| Parthenium hysterophorus Parthenium Weed, Bitter Weed, Carrot Grass, False Ragweed [19566] | | Species or species habitat likely to occur |

| Name | Status | Type of Presence within area |
|--|--------|--|
| Salvinia molesta Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba Weed [13665] | | Species or species habitat likely to occur within area |
| Senecio madagascariensis Fireweed, Madagascar Ragwort, Madagascar Groundsel [2624] | | Species or species habitat likely to occur within area |
| Vachellia nilotica Prickly Acacia, Blackthorn, Prickly Mimosa, Black Piquant, Babul [84351] | | Species or species habitat likely to occur within area |

Reptiles

| | | |
|---|--|--|
| Hemidactylus frenatus Asian House Gecko [1708] | | Species or species habitat likely to occur within area |
|---|--|--|

Nationally Important Wetlands

[Resource Information]

| Name | State |
|--|-------|
| Blencoe Falls - Blencoe Creek | QLD |
| Edmund Kennedy Wetlands | QLD |
| Great Barrier Reef Marine Park | QLD |
| Herbert River Floodplain | QLD |
| Herbert River Gorge | QLD |
| Hinchinbrook Channel | QLD |
| Innot Hot Springs | QLD |
| Lake Lucy Wetlands | QLD |
| Minnamoolka Area | QLD |
| Poison Lake | QLD |
| Tully River - Murray River Floodplains | QLD |
| Undara Lava Tubes | QLD |
| Valley of Lagoons | QLD |
| Wairuna Lake | QLD |
| Walters Plains Lake | QLD |
| Yuccabine Creek | QLD |

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

-18.54926 145.17334

Acknowledgements

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

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

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

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



Queensland Government

Wildlife Online Extract

Search Criteria: Species List for a Specified Point

Species: All

Type: All

Status: Rare and threatened species

Records: All

Date: All

Latitude: -18.9758

Longitude: 144.9283

Distance: 100

Email: llopez@aacrc.net.au

Date submitted: Thursday 17 May 2018 10:18:28

Date extracted: Thursday 17 May 2018 10:20:16

The number of records retrieved = 57

Disclaimer

As the DSITIA is still in a process of collating and vetting data, it is possible the information given is not complete. The information provided should only be used for the project for which it was requested and it should be appropriately acknowledged as being derived from Wildlife Online when it is used.

The State of Queensland does not invite reliance upon, nor accept responsibility for this information. Persons should satisfy themselves through independent means as to the accuracy and completeness of this information.

No statements, representations or warranties are made about the accuracy or completeness of this information. The State of Queensland disclaims all responsibility for this information and all liability (including without limitation, liability in negligence) 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.

| Kingdom | Class | Family | Scientific Name | Common Name | I | Q | A | Records |
|---------|---------------|------------------|---|--|----|----|---|---------|
| animals | amphibians | Hylidae | <i>Litoria nannotis</i> | waterfall frog | E | E | | 52/3 |
| animals | amphibians | Hylidae | <i>Litoria serrata</i> | tapping green eyed frog | V | | | 70/13 |
| animals | amphibians | Hylidae | <i>Litoria dayi</i> | Australian lacelid | E | E | | 8/6 |
| animals | amphibians | Hylidae | <i>Litoria rheocola</i> | common mistfrog | E | E | | 22/5 |
| animals | birds | Accipitridae | <i>Erythrotriorchis radiatus</i> | red goshawk | E | V | | 1 |
| animals | birds | Casuariidae | <i>Casuarus casuarius johnsonii</i> (southern population) | southern cassowary (southern population) | E | E | | 42 |
| animals | birds | Columbidae | <i>Geophaps scripta scripta</i> | squatter pigeon (southern subspecies) | V | V | | 3 |
| animals | birds | Estrildidae | <i>Poephila cincta cincta</i> | black-throated finch (white-rumped subspecies) | E | E | | 11 |
| animals | birds | Estrildidae | <i>Erythrura gouldiae</i> | Gouldian finch | E | E | | 3 |
| animals | birds | Falconidae | <i>Falco hypoleucos</i> | grey falcon | V | | | 1 |
| animals | birds | Psittacidae | <i>Cyclopsitta diophthalma macleayana</i> | Macleay's fig-parrot | V | | | 46 |
| animals | birds | Rostratulidae | <i>Rostratula australis</i> | Australian painted snipe | V | E | | 3/2 |
| animals | birds | Scolopacidae | <i>Calidris ferruginea</i> | curlew sandpiper | E | CE | | 1 |
| animals | mammals | Dasyuridae | <i>Sminthopsis archeri</i> | chestnut dunnart | NT | | | 1/1 |
| animals | mammals | Dasyuridae | <i>Dasyurus maculatus gracilis</i> | spotted-tailed quoll (northern subspecies) | E | E | | 1 |
| animals | mammals | Hipposideridae | <i>Hipposideros diadema reginae</i> | diadem leaf-nosed bat | NT | | | 6 |
| animals | mammals | Macropodidae | <i>Dendrolagus lumholtzi</i> | Lumholtz's tree-kangaroo | NT | | | 2 |
| animals | mammals | Macropodidae | <i>Petrogale sharmani</i> | Sharman's rock-wallaby | V | V | | 39/33 |
| animals | mammals | Megadermatidae | <i>Macroderma gigas</i> | ghost bat | E | V | | 4 |
| animals | mammals | Petauridae | <i>Petaurus gracilis</i> | mahogany glider | E | E | | 8/1 |
| animals | mammals | Phascolarctidae | <i>Phascolarctos cinereus</i> | koala | V | V | | 25 |
| animals | mammals | Pseudocheiridae | <i>Petauroides volans</i> | greater glider | V | V | | 106/1 |
| animals | mammals | Pseudocheiridae | <i>Petauroides volans minor</i> | northern greater glider | V | V | | 385/3 |
| animals | mammals | Pteropodidae | <i>Pteropus conspicillatus</i> | spectacled flying-fox | V | V | | 4 |
| animals | mammals | Rhinolophidae | <i>Rhinolophus philippinensis</i> | greater large-eared horseshoe bat | E | V | | 1/1 |
| animals | mammals | Vespertilionidae | <i>Murina florium</i> | tube-nosed insectivorous bat | V | | | 1 |
| animals | reptiles | Crocodylidae | <i>Crocodylus porosus</i> | estuarine crocodile | V | | | 1 |
| animals | reptiles | Elapidae | <i>Acanthophis antarcticus</i> | common death adder | V | | | 2 |
| animals | reptiles | Pygopodidae | <i>Delma mitella</i> | Atherton delma | NT | V | | 2 |
| animals | reptiles | Scincidae | <i>Lerista vanderduysi</i> | leaden-bellied fine-line slider | V | V | | 4/1 |
| animals | reptiles | Scincidae | <i>Ctenotus monticola</i> | Atherton ctenotus | V | | | 2/2 |
| animals | reptiles | Scincidae | <i>Lygisaurus rococo</i> | Chillagoe litter-skink | NT | | | 4 |
| animals | reptiles | Scincidae | <i>Lerista ameles</i> | limbless fine-lined slider | V | | | 6/2 |
| animals | reptiles | Scincidae | <i>Lerista hobsoni</i> | Hobson's fine-line slider | V | | | 4/3 |
| plants | cycads | Cycadaceae | <i>Cycas desolata</i> | | V | | | 4/4 |
| plants | cycads | Cycadaceae | <i>Cycas cairnsiana</i> | | V | V | | 8/8 |
| plants | cycads | Cycadaceae | <i>Cycas platyphylla</i> | | V | V | | 3/3 |
| plants | higher dicots | Apiaceae | <i>Oenanthe javanica</i> | | NT | | | 1/1 |
| plants | higher dicots | Byttneriaceae | <i>Commersonia reticulata</i> | | V | | | 5/5 |
| plants | higher dicots | Euphorbiaceae | <i>Croton magneticus</i> | | V | | | 1/1 |
| plants | higher dicots | Mimosaceae | <i>Acacia crombiei</i> | pink gidgee | V | V | | 2/2 |
| plants | higher dicots | Mimosaceae | <i>Acacia tingooensis</i> | | V | | | 5/5 |
| plants | higher dicots | Myrtaceae | <i>Leptospermum pallidum</i> | | NT | | | 10/10 |

| Kingdom | Class | Family | Scientific Name | Common Name | I | Q | A | Records |
|---------|---------------|----------------|-----------------------------------|----------------------|---|----|---|---------|
| plants | higher dicots | Myrtaceae | <i>Kunzea truncata</i> | | | E | | 1/1 |
| plants | higher dicots | Rubiaceae | <i>Oldenlandia polyclada</i> | | | NT | | 1/1 |
| plants | higher dicots | Sapindaceae | <i>Arytera dictyoneura</i> | | | NT | | 2/2 |
| plants | lower dicots | Convolvulaceae | <i>Ipomoea saintronanensis</i> | | | V | | 20/19 |
| plants | lower dicots | Solanaceae | <i>Solanum angustum</i> | | | E | | 2/2 |
| plants | monocots | Cyperaceae | <i>Carex breviscapa</i> | | | V | | 1/1 |
| plants | monocots | Orchidaceae | <i>Goodyera viridiflora</i> | | | NT | | 1/1 |
| plants | monocots | Orchidaceae | <i>Corybas cerasinus</i> | | | NT | | 4/4 |
| plants | monocots | Orchidaceae | <i>Phaius australis</i> | | | E | E | 1/1 |
| plants | monocots | Orchidaceae | <i>Rhomboda polygonoides</i> | | | V | V | 2/2 |
| plants | monocots | Orchidaceae | <i>Habenaria hymenophylla</i> | rainforest habenaria | | NT | | 2/1 |
| plants | monocots | Poaceae | <i>Paspalidium udum</i> | | | V | | 2/2 |
| plants | monocots | Poaceae | <i>Dichanthium queenslandicum</i> | | | V | E | 1/1 |
| plants | monocots | Poaceae | <i>Lepturus minutus</i> | | | V | | 10/10 |

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 in the Wild (PE), Endangered (E), Vulnerable (V), Near Threatened (NT), Least Concern (C) or Not Protected ().

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

Records – The first number indicates the total number of records of the taxon for the record option selected (i.e. All, Confirmed or Specimens).

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

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



Queensland Government

Wildlife Online Extract

Search Criteria: Species List for a Specified Point
Species: All
Type: All
Status: Rare and threatened species
Records: All
Date: All
Latitude: -19.0301
Longitude: 144.9561
Distance: 100
Email: llopez@aacrc.net.au
Date submitted: Thursday 17 May 2018 10:31:34
Date extracted: Thursday 17 May 2018 10:40:07

The number of records retrieved = 56

Disclaimer

As the DSITIA is still in a process of collating and vetting data, it is possible the information given is not complete. The information provided should only be used for the project for which it was requested and it should be appropriately acknowledged as being derived from Wildlife Online when it is used.

The State of Queensland does not invite reliance upon, nor accept responsibility for this information. Persons should satisfy themselves through independent means as to the accuracy and completeness of this information.

No statements, representations or warranties are made about the accuracy or completeness of this information. The State of Queensland disclaims all responsibility for this information and all liability (including without limitation, liability in negligence) 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.

| Kingdom | Class | Family | Scientific Name | Common Name | I | Q | A | Records |
|---------|---------------|------------------|---|--|---|----|----|---------|
| animals | amphibians | Hylidae | <i>Litoria serrata</i> | tapping green eyed frog | | V | | 77/13 |
| animals | amphibians | Hylidae | <i>Litoria dayi</i> | Australian lacelid | E | | E | 8/6 |
| animals | amphibians | Hylidae | <i>Litoria rheocola</i> | common mistfrog | E | | E | 22/5 |
| animals | amphibians | Hylidae | <i>Litoria nannotis</i> | waterfall frog | E | | E | 55/3 |
| animals | birds | Casuariidae | <i>Casuaris casuarius johnsonii (southern population)</i> | southern cassowary (southern population) | E | | E | 49 |
| animals | birds | Columbidae | <i>Geophaps scripta scripta</i> | squatter pigeon (southern subspecies) | V | | V | 3 |
| animals | birds | Estrildidae | <i>Erythrura gouldiae</i> | Gouldian finch | E | | E | 3 |
| animals | birds | Estrildidae | <i>Poephila cincta cincta</i> | black-throated finch (white-rumped subspecies) | E | | E | 12 |
| animals | birds | Falconidae | <i>Falco hypoleucos</i> | grey falcon | | V | | 2 |
| animals | birds | Psittacidae | <i>Cyclopsitta diophthalma macleayana</i> | Macleay's fig-parrot | | V | | 45 |
| animals | birds | Rostratulidae | <i>Rostratula australis</i> | Australian painted snipe | V | | E | 7/2 |
| animals | birds | Scolopacidae | <i>Calidris ferruginea</i> | curlew sandpiper | E | | CE | 1 |
| animals | insects | Lycaenidae | <i>Hypochrysops apollo apollo</i> | Apollo jewel (Wet Tropics subspecies) | | V | | 5 |
| animals | mammals | Dasyuridae | <i>Dasyurus maculatus gracilis</i> | spotted-tailed quoll (northern subspecies) | E | | E | 1 |
| animals | mammals | Dasyuridae | <i>Sminthopsis archeri</i> | chestnut dunnart | | | NT | 1/1 |
| animals | mammals | Hipposideridae | <i>Hipposideros diadema reginae</i> | diadem leaf-nosed bat | | | NT | 6 |
| animals | mammals | Macropodidae | <i>Petrogale sharmani</i> | Sharman's rock-wallaby | V | | V | 39/33 |
| animals | mammals | Macropodidae | <i>Dendrolagus lumholtzi</i> | Lumholtz's tree-kangaroo | | | NT | 2 |
| animals | mammals | Megadermatidae | <i>Macroderma gigas</i> | ghost bat | E | | V | 4 |
| animals | mammals | Petauridae | <i>Petaurus gracilis</i> | mahogany glider | E | | E | 13/1 |
| animals | mammals | Phascolarctidae | <i>Phascolarctos cinereus</i> | koala | V | | V | 25 |
| animals | mammals | Pseudocheiridae | <i>Petauroides volans minor</i> | northern greater glider | V | | V | 353/3 |
| animals | mammals | Pseudocheiridae | <i>Petauroides volans</i> | greater glider | V | | V | 74/1 |
| animals | mammals | Pteropodidae | <i>Pteropus conspicillatus</i> | spectacled flying-fox | V | | V | 4 |
| animals | mammals | Rhinolophidae | <i>Rhinolophus philippinensis</i> | greater large-eared horseshoe bat | E | | V | 1/1 |
| animals | mammals | Vespertilionidae | <i>Murina florium</i> | tube-nosed insectivorous bat | | V | | 1 |
| animals | reptiles | Crocodylidae | <i>Crocodylus porosus</i> | estuarine crocodile | | V | | 1 |
| animals | reptiles | Elapidae | <i>Acanthophis antarcticus</i> | common death adder | | V | | 2 |
| animals | reptiles | Pygopodidae | <i>Delma mitella</i> | Atherton delma | | NT | V | 2 |
| animals | reptiles | Scincidae | <i>Lerista vanderduysi</i> | leaden-bellied fine-line slider | V | | V | 3 |
| animals | reptiles | Scincidae | <i>Ctenotus monticola</i> | Atherton ctenotus | V | | | 2/2 |
| animals | reptiles | Scincidae | <i>Lygisaurus rococo</i> | Chillagoe litter-skink | | NT | | 4 |
| animals | reptiles | Scincidae | <i>Lerista ameles</i> | limbless fine-lined slider | V | | | 4/2 |
| animals | reptiles | Scincidae | <i>Lerista hobsoni</i> | Hobson's fine-line slider | V | | | 6/4 |
| plants | cycads | Cycadaceae | <i>Cycas desolata</i> | | | V | | 4/4 |
| plants | cycads | Cycadaceae | <i>Cycas cairnsiana</i> | | | V | V | 8/8 |
| plants | cycads | Cycadaceae | <i>Cycas platyphylla</i> | | | V | V | 3/3 |
| plants | higher dicots | Apiaceae | <i>Oenanthe javanica</i> | | | NT | | 1/1 |
| plants | higher dicots | Asteraceae | <i>Glossocardia orthochaeta</i> | | | E | | 1/1 |
| plants | higher dicots | Byttneriaceae | <i>Commersonia reticulata</i> | | | V | | 4/4 |
| plants | higher dicots | Euphorbiaceae | <i>Croton magneticus</i> | | | V | | 1/1 |
| plants | higher dicots | Mimosaceae | <i>Acacia tingooensis</i> | | | V | | 5/5 |
| plants | higher dicots | Mimosaceae | <i>Acacia crombiei</i> | pink gidgee | | V | V | 2/2 |

| Kingdom | Class | Family | Scientific Name | Common Name | I | Q | A | Records |
|---------|---------------|----------------|-----------------------------------|-------------|---|----|---|---------|
| plants | higher dicots | Myrtaceae | <i>Kunzea truncata</i> | | | E | | 1/1 |
| plants | higher dicots | Myrtaceae | <i>Leptospermum pallidum</i> | | | NT | | 10/10 |
| plants | higher dicots | Rubiaceae | <i>Oldenlandia polyclada</i> | | | NT | | 1/1 |
| plants | higher dicots | Sapindaceae | <i>Arytera dictyoneura</i> | | | NT | | 2/2 |
| plants | lower dicots | Convolvulaceae | <i>Ipomoea saintronanensis</i> | | | V | | 7/7 |
| plants | lower dicots | Solanaceae | <i>Solanum angustum</i> | | | E | | 2/2 |
| plants | monocots | Cyperaceae | <i>Carex breviscapa</i> | | | V | | 1/1 |
| plants | monocots | Orchidaceae | <i>Corybas cerasinus</i> | | | NT | | 4/4 |
| plants | monocots | Orchidaceae | <i>Phaius australis</i> | | | E | E | 1/1 |
| plants | monocots | Orchidaceae | <i>Rhomboda polygonoides</i> | | | V | V | 2/2 |
| plants | monocots | Poaceae | <i>Dichanthium queenslandicum</i> | | | V | E | 1/1 |
| plants | monocots | Poaceae | <i>Paspalidium udum</i> | | | V | | 2/2 |
| plants | monocots | Poaceae | <i>Lepturus minutus</i> | | | V | | 4/4 |

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 in the Wild (PE), Endangered (E), Vulnerable (V), Near Threatened (NT), Least Concern (C) or Not Protected ().

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

Records – The first number indicates the total number of records of the taxon for the record option selected (i.e. All, Confirmed or Specimens).

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

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



Queensland Government

Wildlife Online Extract

Search Criteria: Species List for a Specified Point

Species: All

Type: All

Status: Rare and threatened species

Records: All

Date: All

Latitude: -18.5493

Longitude: 145.1733

Distance: 100

Email: llopez@aacrc.net.au

Date submitted: Thursday 17 May 2018 10:17:28

Date extracted: Thursday 17 May 2018 10:20:22

The number of records retrieved = 129

Disclaimer

As the DSITIA is still in a process of collating and vetting data, it is possible the information given is not complete. The information provided should only be used for the project for which it was requested and it should be appropriately acknowledged as being derived from Wildlife Online when it is used.

The State of Queensland does not invite reliance upon, nor accept responsibility for this information. Persons should satisfy themselves through independent means as to the accuracy and completeness of this information.

No statements, representations or warranties are made about the accuracy or completeness of this information. The State of Queensland disclaims all responsibility for this information and all liability (including without limitation, liability in negligence) 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.

| Kingdom | Class | Family | Scientific Name | Common Name | I | Q | A | Records |
|---------|------------|------------------|--|--|----|----|---|---------|
| animals | amphibians | Hylidae | <i>Litoria dayi</i> | Australian lacelid | E | E | | 99/47 |
| animals | amphibians | Hylidae | <i>Litoria nyakalensis</i> | mountain mistfrog | E | CE | | 9/9 |
| animals | amphibians | Hylidae | <i>Litoria rheocola</i> | common mistfrog | E | E | | 105/21 |
| animals | amphibians | Hylidae | <i>Litoria nannotis</i> | waterfall frog | E | E | | 112/12 |
| animals | amphibians | Hylidae | <i>Litoria serrata</i> | tapping green eyed frog | V | | | 176/31 |
| animals | amphibians | Myobatrachidae | <i>Pseudophryne covacevichae</i> | magnificent broodfrog | V | V | | 45 |
| animals | amphibians | Myobatrachidae | <i>Taudactylus acutirostris</i> | sharp snouted dayfrog | PE | EX | | 13/5 |
| animals | birds | Accipitridae | <i>Erythrotriorchis radiatus</i> | red goshawk | E | V | | 8 |
| animals | birds | Burhinidae | <i>Esacus magnirostris</i> | beach stone-curlew | V | | | 40 |
| animals | birds | Cacatuidae | <i>Calyptorhynchus lathamii erebus</i> | glossy black-cockatoo (northern) | V | | | 1 |
| animals | birds | Casuariidae | <i>Casuaricus casuaricus johnsonii (southern population)</i> | southern cassowary (southern population) | E | E | | 484/5 |
| animals | birds | Charadriidae | <i>Charadrius mongolus</i> | lesser sand plover | E | E | | 5 |
| animals | birds | Charadriidae | <i>Charadrius leschenaultii</i> | greater sand plover | V | V | | 8 |
| animals | birds | Columbidae | <i>Geophaps scripta scripta</i> | squatter pigeon (southern subspecies) | V | V | | 2 |
| animals | birds | Estrildidae | <i>Poephila cincta cincta</i> | black-throated finch (white-rumped subspecies) | E | E | | 8 |
| animals | birds | Estrildidae | <i>Erythrura gouldiae</i> | Gouldian finch | E | E | | 2 |
| animals | birds | Falconidae | <i>Falco hypoleucos</i> | grey falcon | V | | | 1 |
| animals | birds | Psittacidae | <i>Cyclopsitta diophthalma macleayana</i> | Macleay's fig-parrot | V | | | 117/5 |
| animals | birds | Scolopacidae | <i>Calidris ferruginea</i> | curlew sandpiper | E | CE | | 1 |
| animals | birds | Scolopacidae | <i>Calidris tenuirostris</i> | great knot | E | CE | | 2 |
| animals | birds | Scolopacidae | <i>Numenius madagascariensis</i> | eastern curlew | E | CE | | 11/1 |
| animals | birds | Scolopacidae | <i>Limosa lapponica baueri</i> | Western Alaskan bar-tailed godwit | V | V | | 7/1 |
| animals | birds | Turnicidae | <i>Turnix olivii</i> | buff-breasted button-quail | E | E | | 2 |
| animals | birds | Tytonidae | <i>Tyto novaehollandiae kimberli</i> | masked owl (northern subspecies) | V | V | | 3 |
| animals | insects | Lycaenidae | <i>Hypochrysops apollo apollo</i> | Apollo jewel (Wet Tropics subspecies) | V | | | 11 |
| animals | mammals | Dasyuridae | <i>Dasyurus maculatus gracilis</i> | spotted-tailed quoll (northern subspecies) | E | E | | 9/3 |
| animals | mammals | Delphinidae | <i>Orcaella heinsohni</i> | Australian snubfin dolphin | V | | | 9 |
| animals | mammals | Dugongidae | <i>Dugong dugon</i> | dugong | V | | | 2 |
| animals | mammals | Hipposideridae | <i>Hipposideros diadema reginae</i> | diadem leaf-nosed bat | NT | | | 7 |
| animals | mammals | Macropodidae | <i>Dendrolagus lumholtzi</i> | Lumholtz's tree-kangaroo | NT | | | 10 |
| animals | mammals | Macropodidae | <i>Petrogale sharmani</i> | Sharman's rock-wallaby | V | V | | 45/34 |
| animals | mammals | Megadermatidae | <i>Macroderma gigas</i> | ghost bat | E | V | | 2 |
| animals | mammals | Petauridae | <i>Petaurus gracilis</i> | mahogany glider | E | E | | 182/8 |
| animals | mammals | Petauridae | <i>Petaurus australis unnamed subsp.</i> | yellow-bellied glider (northern subspecies) | V | V | | 13 |
| animals | mammals | Phascolarctidae | <i>Phascolarctos cinereus</i> | koala | V | V | | 26/1 |
| animals | mammals | Potoroidae | <i>Bettongia tropica</i> | northern bettong | E | E | | 33/1 |
| animals | mammals | Pseudocheiridae | <i>Petauroides volans</i> | greater glider | V | V | | 18/1 |
| animals | mammals | Pseudocheiridae | <i>Petauroides volans minor</i> | northern greater glider | V | V | | 359/3 |
| animals | mammals | Pteropodidae | <i>Pteropus conspicillatus</i> | spectacled flying-fox | V | V | | 21 |
| animals | mammals | Vespertilionidae | <i>Murina florium</i> | tube-nosed insectivorous bat | V | | | 9 |
| animals | reptiles | Cheloniidae | <i>Chelonia mydas</i> | green turtle | V | V | | 3 |
| animals | reptiles | Crocodylidae | <i>Crocodylus porosus</i> | estuarine crocodile | V | | | 18 |

| Kingdom | Class | Family | Scientific Name | Common Name | I | Q | A | Records |
|---------|---------------|------------------|--|-----------------------------|---|----|---|---------|
| animals | reptiles | Elapidae | <i>Acanthophis antarcticus</i> | common death adder | | V | | 2 |
| animals | reptiles | Pygopodidae | <i>Delma mitella</i> | Atherton delma | | NT | V | 2 |
| animals | reptiles | Scincidae | <i>Lygisaurus rococo</i> | Chillagoe litter-skink | | NT | | 4 |
| animals | reptiles | Scincidae | <i>Lerista ameles</i> | limbless fine-lined slider | | V | | 7/3 |
| animals | reptiles | Scincidae | <i>Lerista storri</i> | Chillagoe fine-lined slider | | V | | 3/2 |
| animals | reptiles | Scincidae | <i>Ctenotus monticola</i> | Atherton ctenotus | | V | | 2/2 |
| plants | club mosses | Lycopodiaceae | <i>Phlegmariurus filiformis</i> | | | E | E | 1/1 |
| plants | club mosses | Lycopodiaceae | <i>Phlegmariurus marsupiiiformis</i> | | | V | V | 1/1 |
| plants | club mosses | Lycopodiaceae | <i>Phlegmariurus phlegmarioides</i> | | | V | | 3/3 |
| plants | club mosses | Lycopodiaceae | <i>Phlegmariurus tetrastichoides</i> | | | V | V | 1/1 |
| plants | cycads | Cycadaceae | <i>Cycas desolata</i> | | | V | | 4/4 |
| plants | ferns | Cyatheaceae | <i>Cyathea celebica</i> | | | NT | | 1/1 |
| plants | ferns | Dicksoniaceae | <i>Calochlaena villosa</i> | | | NT | | 1/1 |
| plants | ferns | Dipteridaceae | <i>Dipteris conjugata</i> | | | NT | | 3/3 |
| plants | ferns | Dryopteridaceae | <i>Lastreopsis walleri</i> | | | V | V | 1/1 |
| plants | ferns | Dryopteridaceae | <i>Dryopteris hasseltii</i> | | | NT | | 2/2 |
| plants | ferns | Dryopteridaceae | <i>Dryopteris wattsii</i> | | | V | | 2/2 |
| plants | ferns | Hymenophyllaceae | <i>Hymenophyllum pallidum</i> | | | NT | | 1/1 |
| plants | ferns | Thelypteridaceae | <i>Chingia australis</i> | | | E | E | 1/1 |
| plants | ferns | Thelypteridaceae | <i>Pneumatopteris costata</i> | | | NT | | 5/5 |
| plants | ferns | Vittariaceae | <i>Antrophyum plantagineum</i> | | | NT | | 2/2 |
| plants | higher dicots | Apiaceae | <i>Oenanthe javanica</i> | | | NT | | 2/2 |
| plants | higher dicots | Asteraceae | <i>Glossocardia orthochaeta</i> | | | E | | 1/1 |
| plants | higher dicots | Burseraceae | <i>Canarium acutifolium var. acutifolium</i> | | | V | V | 7/7 |
| plants | higher dicots | Byttneriaceae | <i>Commersonia reticulata</i> | | | V | | 6/6 |
| plants | higher dicots | Combretaceae | <i>Dansiea elliptica</i> | | | NT | | 1/1 |
| plants | higher dicots | Droseraceae | <i>Drosera adelae</i> | | | NT | | 6/6 |
| plants | higher dicots | Euphorbiaceae | <i>Euphorbia carissoides</i> | | | V | V | 1/1 |
| plants | higher dicots | Euphorbiaceae | <i>Croton magneticus</i> | | | V | | 1/1 |
| plants | higher dicots | Fabaceae | <i>Dioclea hexandra</i> | | | V | | 2/2 |
| plants | higher dicots | Mimosaceae | <i>Acacia crombiei</i> | pink gidgee | | V | V | 2/2 |
| plants | higher dicots | Mimosaceae | <i>Acacia longipedunculata</i> | | | NT | | 7/4 |
| plants | higher dicots | Mimosaceae | <i>Acacia tingooensis</i> | | | V | | 5/5 |
| plants | higher dicots | Myrtaceae | <i>Homoranthus porteri</i> | | | V | V | 2/2 |
| plants | higher dicots | Myrtaceae | <i>Leptospermum pallidum</i> | | | NT | | 10/10 |
| plants | higher dicots | Myrtaceae | <i>Waterhousea mulgraveana</i> | | | V | | 1/1 |
| plants | higher dicots | Myrtaceae | <i>Kunzea truncata</i> | | | E | | 1/1 |
| plants | higher dicots | Myrtaceae | <i>Melaleuca sylvana</i> | | | E | | 3/3 |
| plants | higher dicots | Myrtaceae | <i>Corymbia leptoloma</i> | | | V | V | 11/11 |
| plants | higher dicots | Myrtaceae | <i>Sphaerantia discolor</i> | Tully penda | | V | | 12/12 |
| plants | higher dicots | Myrtaceae | <i>Triplarina nitchaga</i> | | | V | V | 5/5 |
| plants | higher dicots | Polygalaceae | <i>Comesperma praecelsum</i> | | | V | | 1/1 |
| plants | higher dicots | Proteaceae | <i>Lasjia grandis</i> | | | V | | 2/2 |
| plants | higher dicots | Rubiaceae | <i>Hedyotis novoguineensis</i> | | | E | | 7/7 |
| plants | higher dicots | Rubiaceae | <i>Myrmecodia beccarii</i> | | | V | V | 18/5 |
| plants | higher dicots | Rubiaceae | <i>Oldenlandia polyclada</i> | | | NT | | 1/1 |

| Kingdom | Class | Family | Scientific Name | Common Name | I | Q | A | Records |
|---------|---------------|------------------|-----------------------------------|------------------------------|---|----|---|---------|
| plants | higher dicots | Sapindaceae | <i>Dodonaea uncinata</i> | | | NT | | 16/16 |
| plants | higher dicots | Sapindaceae | <i>Arytera dictyoneura</i> | | | NT | | 3/3 |
| plants | higher dicots | Sapindaceae | <i>Diploglottis pedleyi</i> | | | NT | | 2/2 |
| plants | higher dicots | Sparrmanniaceae | <i>Corchorus subargenteus</i> | | | V | | 19/10 |
| plants | higher dicots | Sterculiaceae | <i>Firmiana papuana</i> | lacewood | | V | | 1/1 |
| plants | lower dicots | Apocynaceae | <i>Marsdenia brevifolia</i> | | | V | V | 6/6 |
| plants | lower dicots | Aristolochiaceae | <i>Pararistolochia praevenosa</i> | | | NT | | 3/3 |
| plants | lower dicots | Convolvulaceae | <i>Ipomoea saintronanensis</i> | | | V | | 21/20 |
| plants | lower dicots | Lauraceae | <i>Endiandra globosa</i> | ball-fruited walnut | | NT | | 2/2 |
| plants | lower dicots | Lauraceae | <i>Endiandra bellendenkerana</i> | | | NT | | 1/1 |
| plants | lower dicots | Linderniaceae | <i>Torenia polygonoides</i> | | | V | | 1/1 |
| plants | lower dicots | Menispermaceae | <i>Carronia pedicellata</i> | | | E | E | 4/4 |
| plants | lower dicots | Monimiaceae | <i>Stegantthera australiana</i> | | | NT | | 1/1 |
| plants | lower dicots | Solanaceae | <i>Solanum hamulosum</i> | | | E | | 1/1 |
| plants | lower dicots | Solanaceae | <i>Solanum angustum</i> | | | E | | 4/4 |
| plants | lower dicots | Solanaceae | <i>Solanum graniticum</i> | | | E | | 1/1 |
| plants | monocots | Aponogetonaceae | <i>Aponogeton bullosus</i> | | | E | E | 4/4 |
| plants | monocots | Arecaceae | <i>Livistona drudei</i> | Halifax fan palm | | V | | 2/2 |
| plants | monocots | Arecaceae | <i>Arenga australasica</i> | | | V | | 8/8 |
| plants | monocots | Costaceae | <i>Cheilocostus potierae</i> | | | E | | 11/11 |
| plants | monocots | Cyperaceae | <i>Eleocharis retroflexa</i> | | | V | V | 1/1 |
| plants | monocots | Cyperaceae | <i>Carex breviscapa</i> | | | V | | 2/2 |
| plants | monocots | Orchidaceae | <i>Corybas abellianus</i> | nodding helmet orchid | | NT | | 1/1 |
| plants | monocots | Orchidaceae | <i>Dendrobium callitrophilum</i> | cypress orchid | | V | V | 1/1 |
| plants | monocots | Orchidaceae | <i>Phaius pictus</i> | | | V | V | 1/1 |
| plants | monocots | Orchidaceae | <i>Diuris oporina</i> | northern white donkeys tails | | NT | | 3/3 |
| plants | monocots | Orchidaceae | <i>Phaius australis</i> | | | E | E | 3/2 |
| plants | monocots | Orchidaceae | <i>Corybas cerasinus</i> | | | NT | | 4/4 |
| plants | monocots | Orchidaceae | <i>Habenaria rumphii</i> | | | NT | | 2/2 |
| plants | monocots | Orchidaceae | <i>Eulophia bicallosa</i> | | | NT | | 1/1 |
| plants | monocots | Orchidaceae | <i>Genoplesium tectum</i> | | | E | E | 1/1 |
| plants | monocots | Orchidaceae | <i>Didymoplexis pallens</i> | crystal bells | | NT | | 1/1 |
| plants | monocots | Orchidaceae | <i>Goodyera viridiflora</i> | | | NT | | 1/1 |
| plants | monocots | Orchidaceae | <i>Habenaria xanthantha</i> | | | NT | | 1/1 |
| plants | monocots | Orchidaceae | <i>Crepidium flavovirens</i> | | | V | | 1/1 |
| plants | monocots | Orchidaceae | <i>Peristylus banfieldii</i> | | | E | | 3/3 |
| plants | monocots | Orchidaceae | <i>Rhomboda polygonoides</i> | | | V | V | 2/2 |
| plants | monocots | Orchidaceae | <i>Habenaria hymenophylla</i> | rainforest habenaria | | NT | | 2/1 |
| plants | monocots | Orchidaceae | <i>Bulbophyllum globuliforme</i> | | | NT | V | 1/1 |
| plants | monocots | Poaceae | <i>Lepturus minutus</i> | | | V | | 9/9 |
| plants | monocots | Poaceae | <i>Paspalidium udum</i> | | | V | | 1/1 |

CODES

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

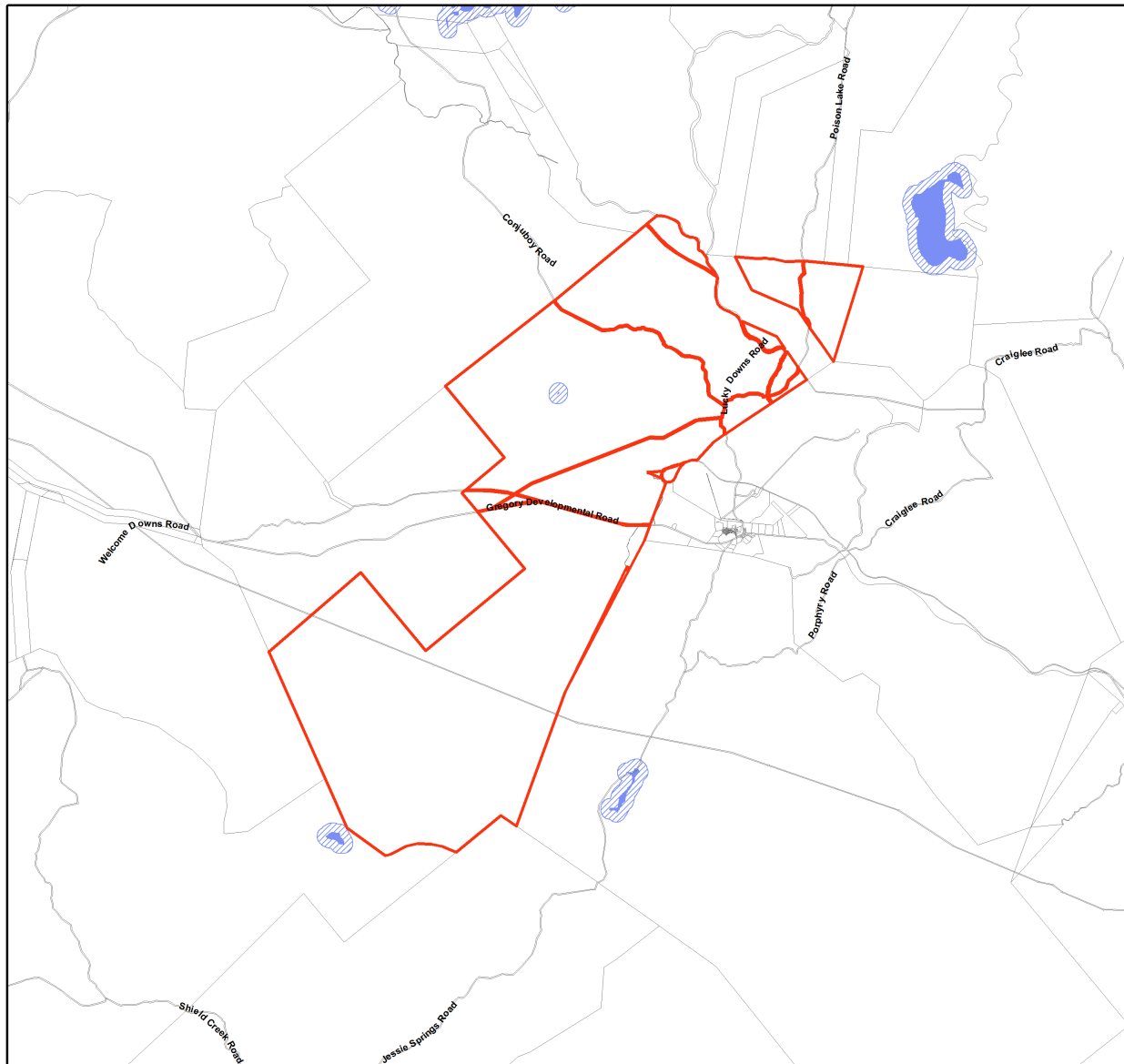
Q - Indicates the Queensland conservation status of each taxon under the *Nature Conservation Act 1992*. The codes are Extinct in the Wild (PE), Endangered (E), Vulnerable (V), Near Threatened (NT), Least Concern (C) or Not Protected ().

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

Records – The first number indicates the total number of records of the taxon for the record option selected (i.e. All, Confirmed or Specimens).

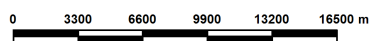
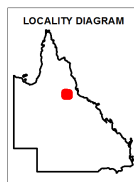
This number is output as 99999 if it equals or exceeds this value. The second number located after the / indicates the number of specimen records for the taxon.

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



Map of Referable Wetlands Wetland Protection Areas

- Lot and Plan
- Cadastral Boundary
- Wetland Protection Areas
 - Wetland
 - Trigger Area



Note:
This map shows the location of wetland protection areas which are defined under the Environmental Protection Regulation 2008. Within wetland protection areas, certain types of development involving high impact earthworks are made assessable under Schedule 3 of the Sustainable Planning Regulation 2009.

The Department of State Development, Manufacturing, Infrastructure and Planning is the State Assessment Referral Agency (SARA) under Schedule 7 of the Sustainable Planning Regulation 2009 for assessable development involving high impact earthworks within wetland protection areas. The Department of Environment and Science is a technical agency.

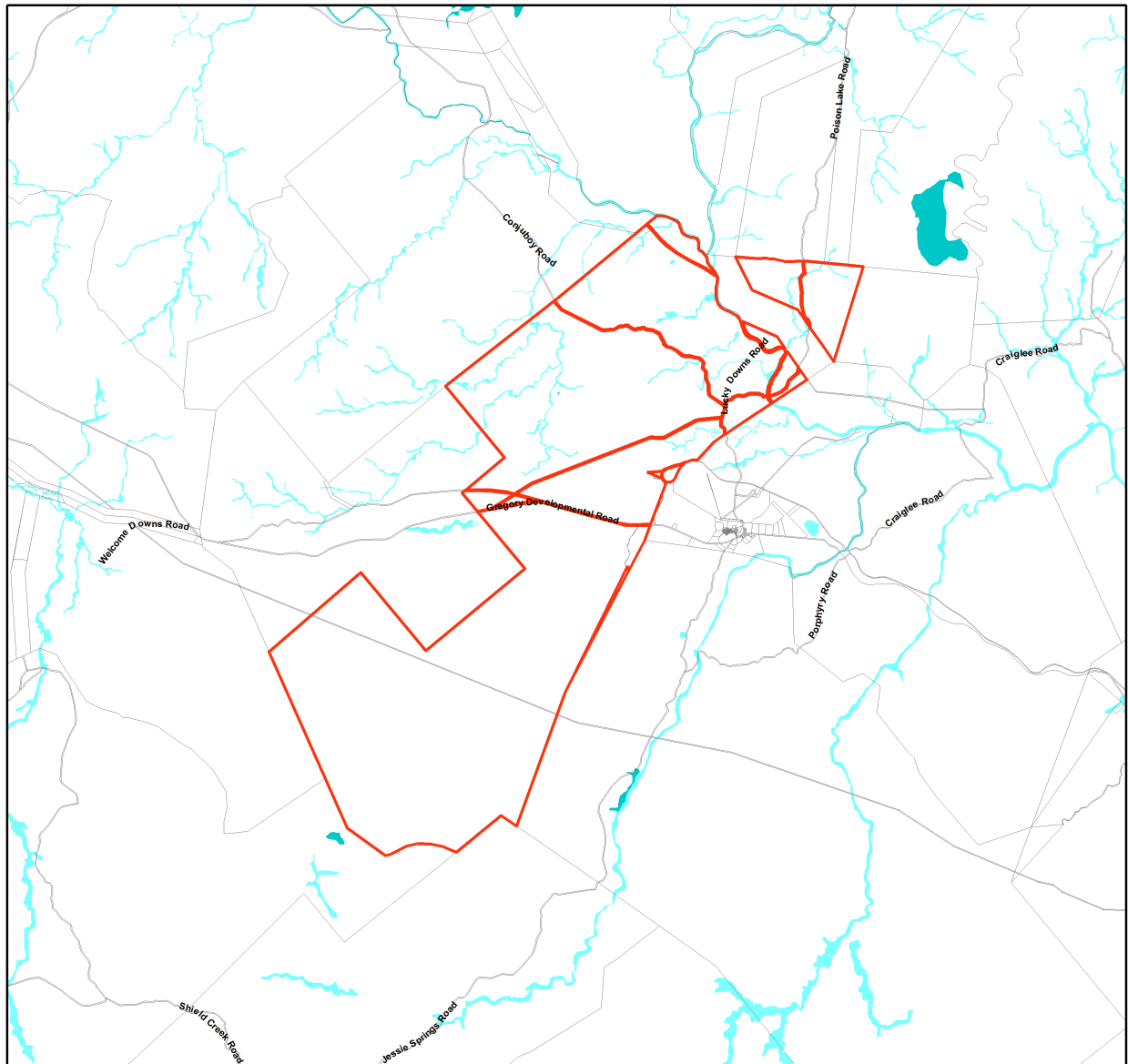
The policy outcome and assessment criteria for assessing these applications are described in the State Development Assessment Provisions (SDAP) *Module 11: Wetlands and wild rivers*.

This map is produced at a scale relevant to the size of the lot on plan identified and should be printed at A4 size in portrait orientation. Consideration of the effects of mapped scale is necessary when interpreting data at a large scale.

For further information or assistance with interpretation of this product, please contact the Department of Environment and Science, email planning.support@des.qld.gov.au.

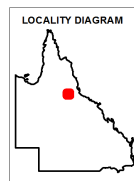
This product is projected into GDA 1994 MGA Zone 55

© The State of Queensland, 2018



Map of Referable Wetlands for the Environmental Protection Act 1994

-  Lot and Plan
-  Cadastral Boundary
-  HES Wetland
-  GES Wetland



Note:
This map shows the location of wetlands on the Map of Referable Wetlands which are defined under the Environmental Protection Regulation 2008.

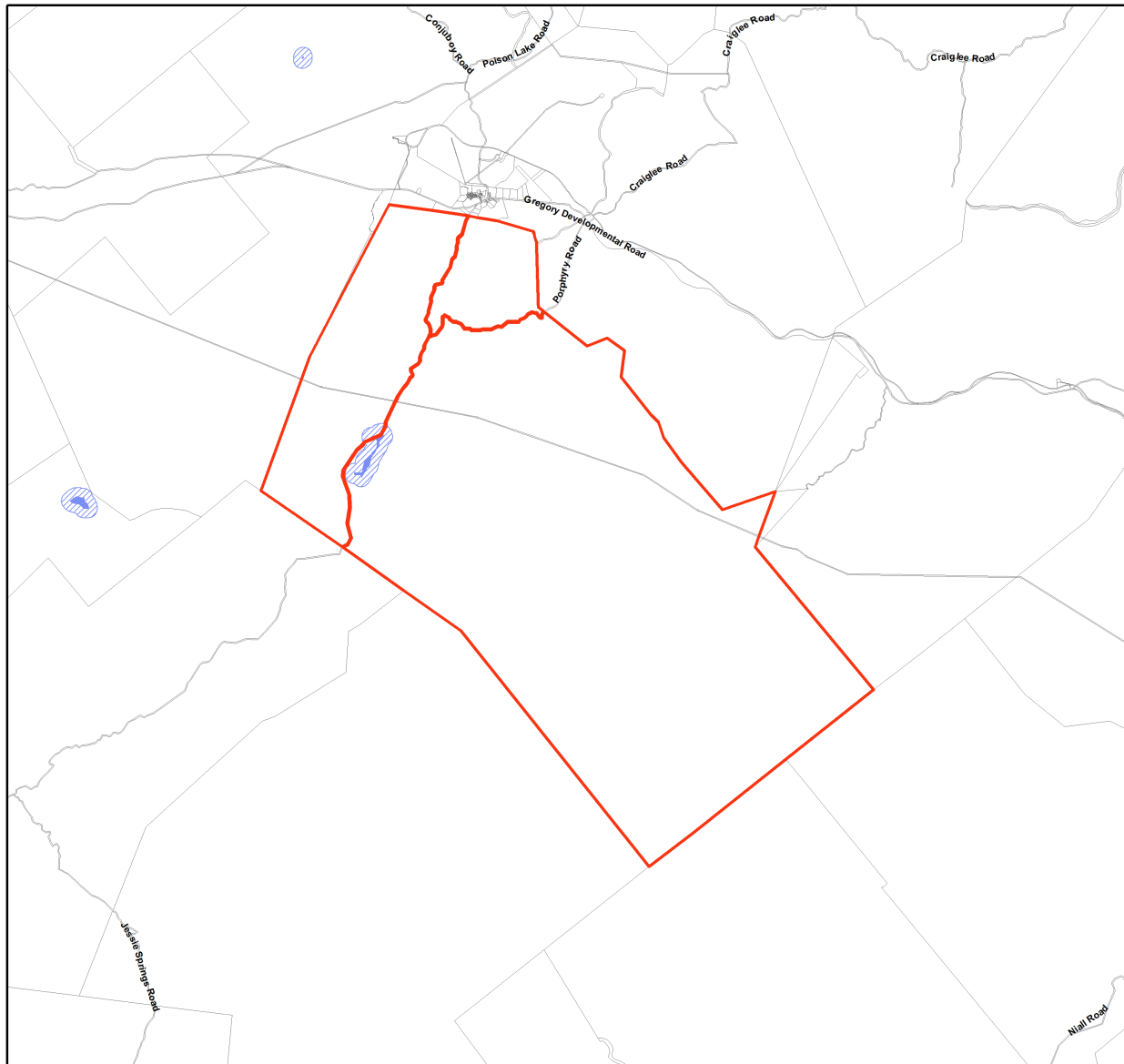
Wetlands are assessed for ecological significance using the environmental values for wetlands in section 81A of the Environmental Protection Regulation 2008. Wetlands are considered either High Ecological Significance (HES) or General Ecological Significance (GES) for the purposes of the environmental values.

This map is produced at a scale relevant to the size of the lot on plan identified and should be printed at A4 size in portrait orientation. Consideration of the effects of mapped scale is necessary when interpreting data at a large scale.

For further information or assistance with interpretation of this product, please contact the Department of Environment and Science, email planning.support@des.qld.gov.au.

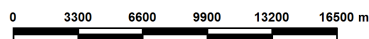
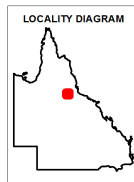
© The State of Queensland, 2018

This product is projected into GDA 1994 MGA Zone 55



Map of Referable Wetlands Wetland Protection Areas

- Lot and Plan
- Cadastral Boundary
- Wetland Protection Areas
 - Wetland
 - Trigger Area



Note:
This map shows the location of wetland protection areas which are defined under the Environmental Protection Regulation 2008. Within wetland protection areas, certain types of development involving high impact earthworks are made assessable under Schedule 3 of the Sustainable Planning Regulation 2009.

The Department of State Development, Manufacturing, Infrastructure and Planning is the State Assessment Referral Agency (SARA) under Schedule 7 of the Sustainable Planning Regulation 2009 for assessable development involving high impact earthworks within wetland protection areas. The Department of Environment and Science is a technical agency.

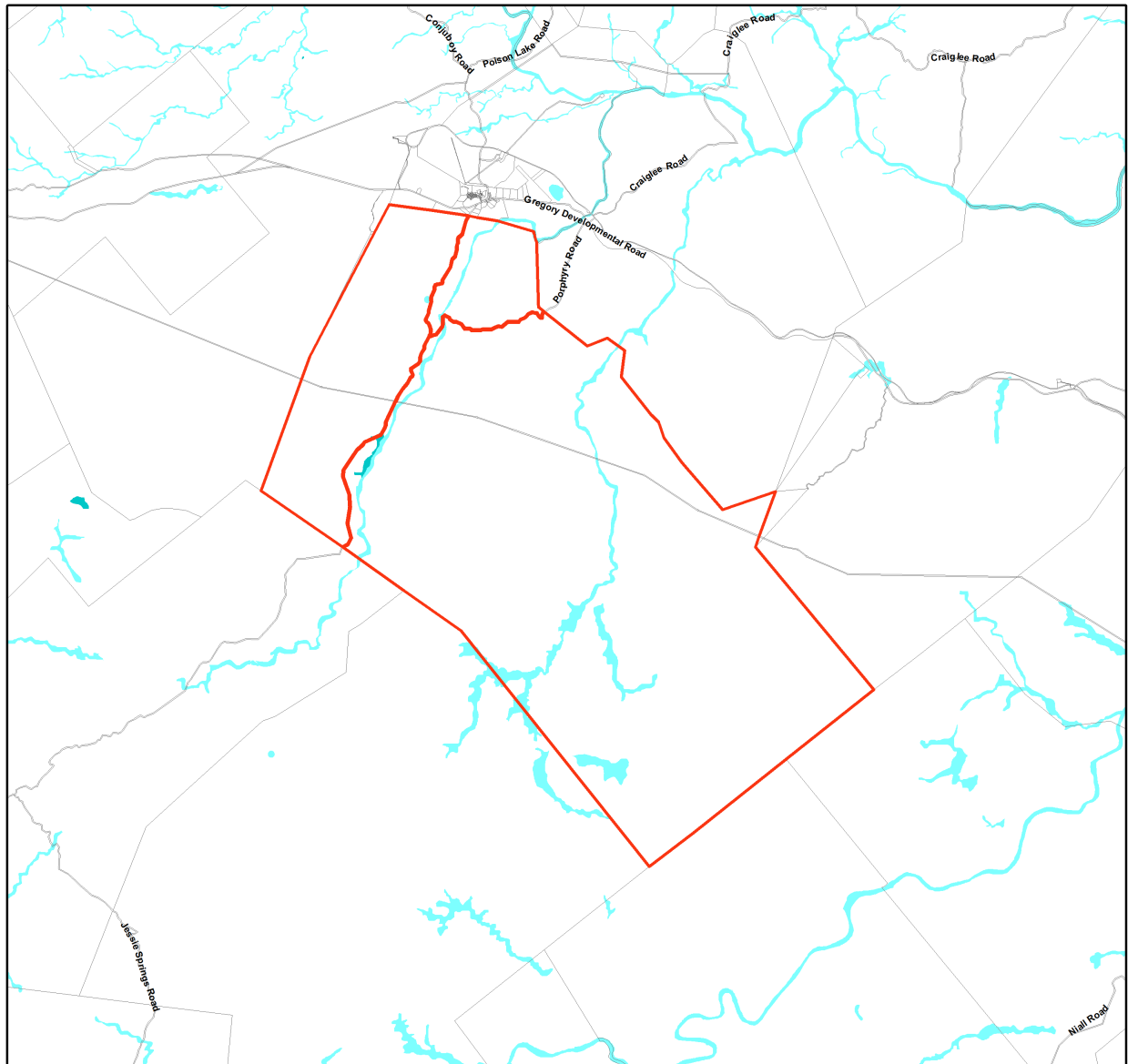
The policy outcome and assessment criteria for assessing these applications are described in the State Development Assessment Provisions (SDAP) *Module 11: Wetlands and wild rivers*.

This map is produced at a scale relevant to the size of the lot on plan identified and should be printed at A4 size in portrait orientation. Consideration of the effects of mapped scale is necessary when interpreting data at a large scale.

For further information or assistance with interpretation of this product, please contact the Department of Environment and Science, email planning.support@des.qld.gov.au.

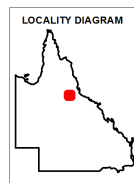
This product is projected into GDA 1994 MGA Zone 55

© The State of Queensland, 2018



Map of Referable Wetlands for the Environmental Protection Act 1994

-  Lot and Plan
-  Cadastral Boundary
-  HES Wetland
-  GES Wetland



Note:
This map shows the location of wetlands on the Map of Referable Wetlands which are defined under the Environmental Protection Regulation 2008.

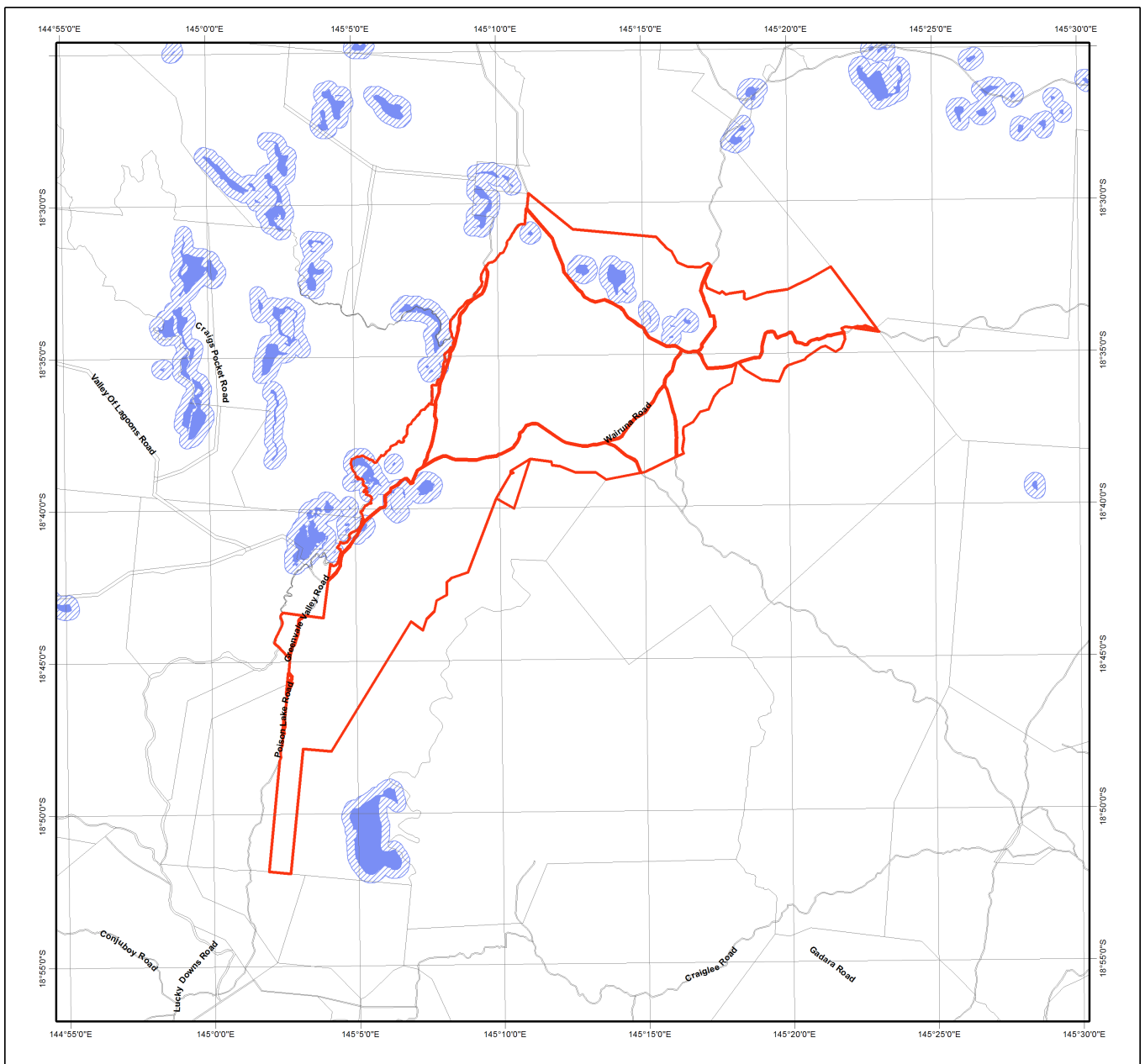
Wetlands are assessed for ecological significance using the environmental values for wetlands in section 81A of the Environmental Protection Regulation 2008. Wetlands are considered either High Ecological Significance (HES) or General Ecological Significance (GES) for the purposes of the environmental values.

This map is produced at a scale relevant to the size of the lot on plan identified and should be printed at A4 size in portrait orientation. Consideration of the effects of mapped scale is necessary when interpreting data at a large scale.

For further information or assistance with interpretation of this product, please contact the Department of Environment and Science, email planning.support@des.qld.gov.au.

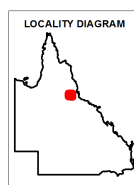
© The State of Queensland, 2018

This product is projected into GDA 1994 MGA Zone 55



Map of Referable Wetlands Wetland Protection Areas

- Lot and Plan
- Cadastral Boundary
- Wetland Protection Areas**
- Wetland
- Trigger Area



This product is projected into GDA 1994 MGA Zone 55

© The State of Queensland, 2018

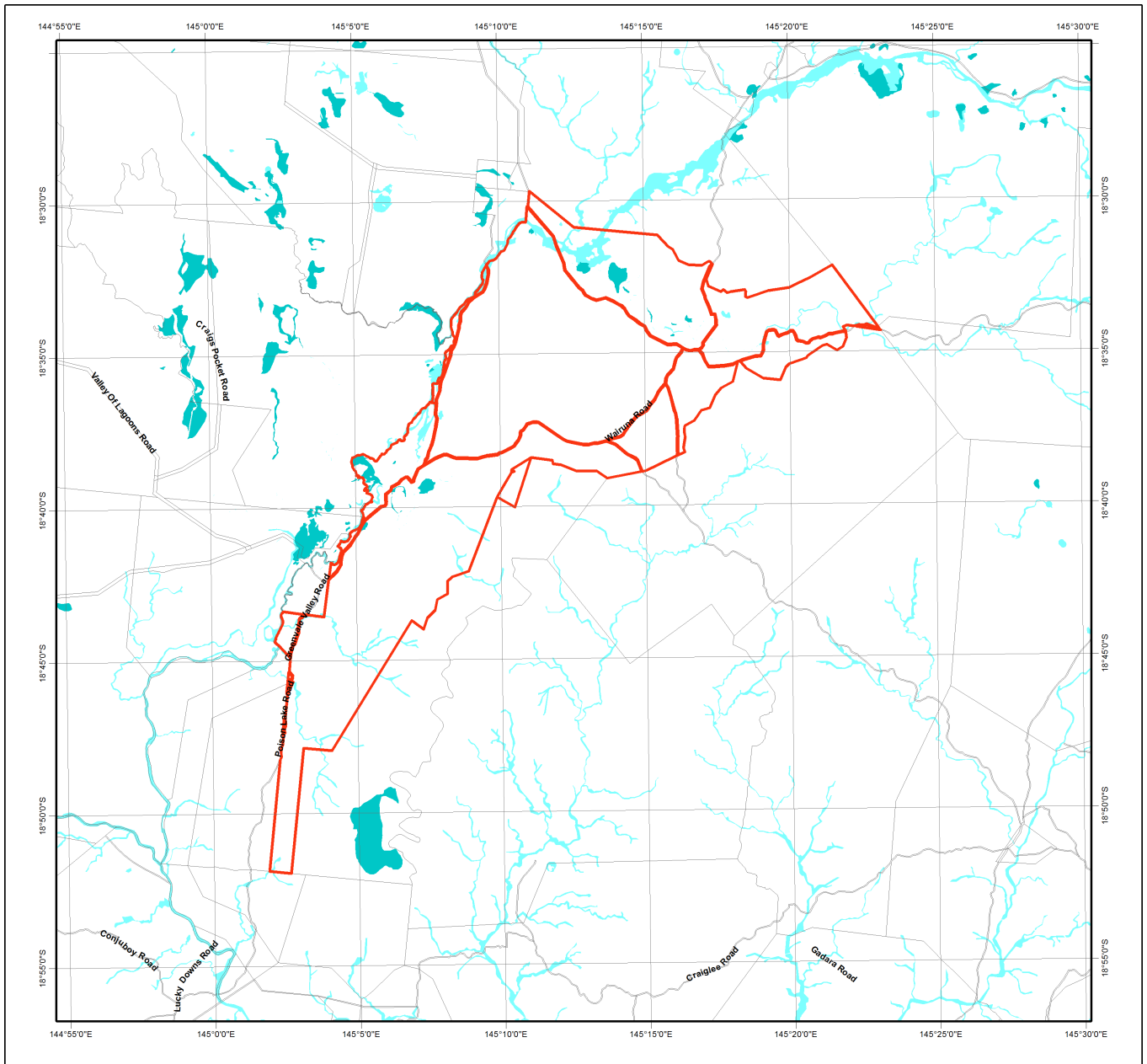
Note:
This map shows the location of wetland protection areas which are defined under the Environmental Protection Regulation 2008. Within wetland protection areas, certain types of development involving high impact earthworks are made assessable under Schedule 3 of the Sustainable Planning Regulation 2009.

The Department of State Development, Manufacturing, Infrastructure and Planning is the State Assessment Referral Agency (SARA) under Schedule 7 of the Sustainable Planning Regulation 2009 for assessable development involving high impact earthworks within wetland protection areas. The Department of Environment and Science is a technical agency.

The policy outcome and assessment criteria for assessing these applications are described in the State Development Assessment Provisions (SDAP) *Module 11: Wetlands and wild rivers*.

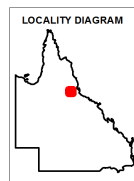
This map is produced at a scale relevant to the size of the lot on plan identified and should be printed at A4 size in portrait orientation. Consideration of the effects of mapped scale is necessary when interpreting data at a large scale.

For further information or assistance with interpretation of this product, please contact the Department of Environment and Science, email planning.support@des.qld.gov.au.



Map of Referable Wetlands for the Environmental Protection Act 1994

-  Lot and Plan
-  Cadastral Boundary
-  HES Wetland
-  GES Wetland



Note:
This map shows the location of wetlands on the Map of Referable Wetlands which are defined under the Environmental Protection Regulation 2008.

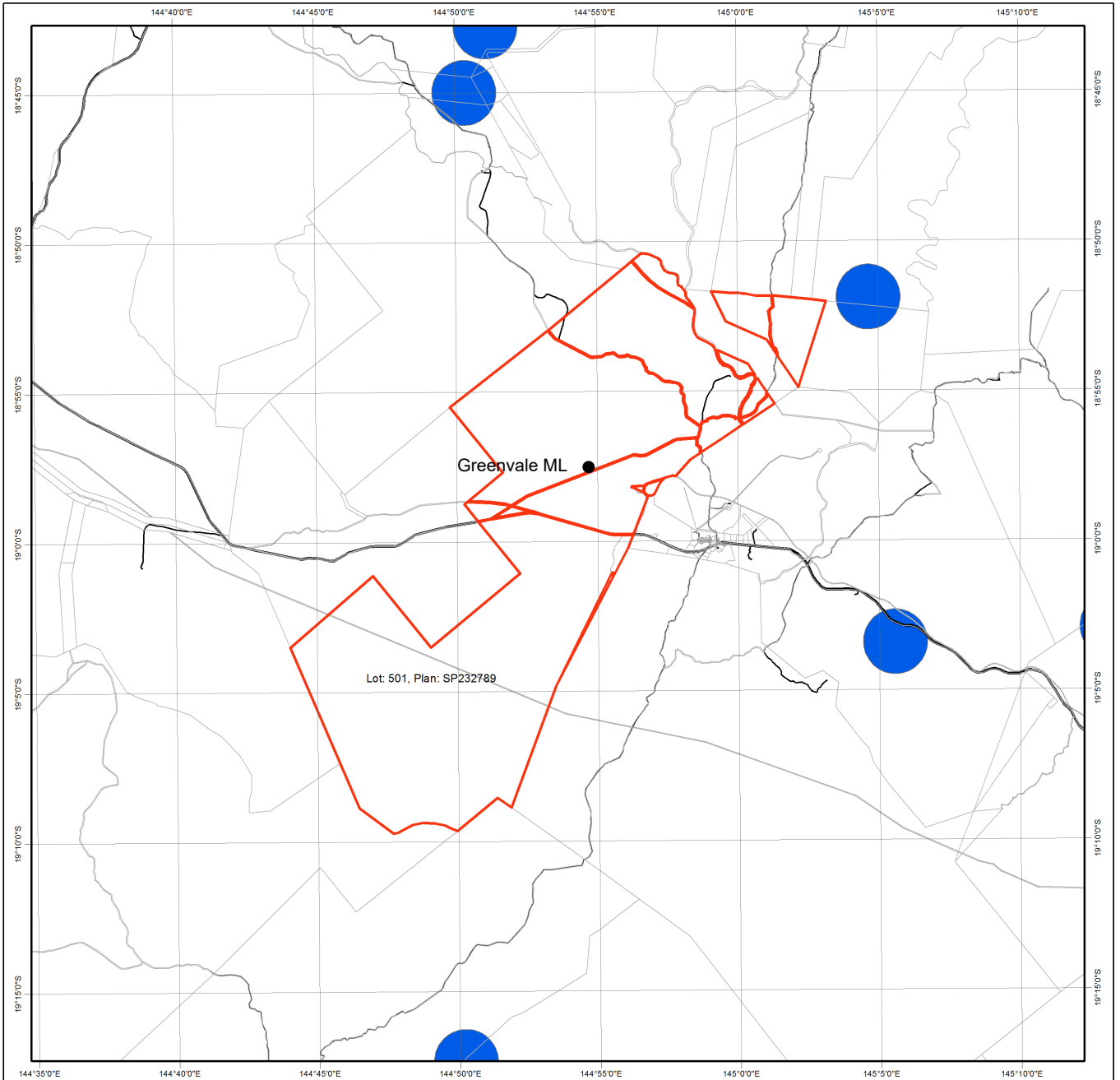
Wetlands are assessed for ecological significance using the environmental values for wetlands in section 81A of the Environmental Protection Regulation 2008. Wetlands are considered either High Ecological Significance (HES) or General Ecological Significance (GES) for the purposes of the environmental values.

This map is produced at a scale relevant to the size of the lot on plan identified and should be printed at A4 size in portrait orientation. Consideration of the effects of mapped scale is necessary when interpreting data at a large scale.

For further information or assistance with interpretation of this product, please contact the Department of Environment and Science, email planning.support@des.qld.gov.au.







© The State of Queensland, 2018

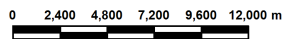
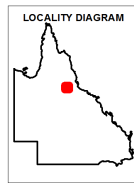
This product is projected into GDA 1994 MGA Zone 55



Protected Plants Flora Survey Trigger Map

Legend

-  Lot and Plan
-  High risk area
-  Cadastral line
-  Property boundaries shown are provided as a locational aid only
-  Freeways / motorways / highways
-  Secondary roads / streets



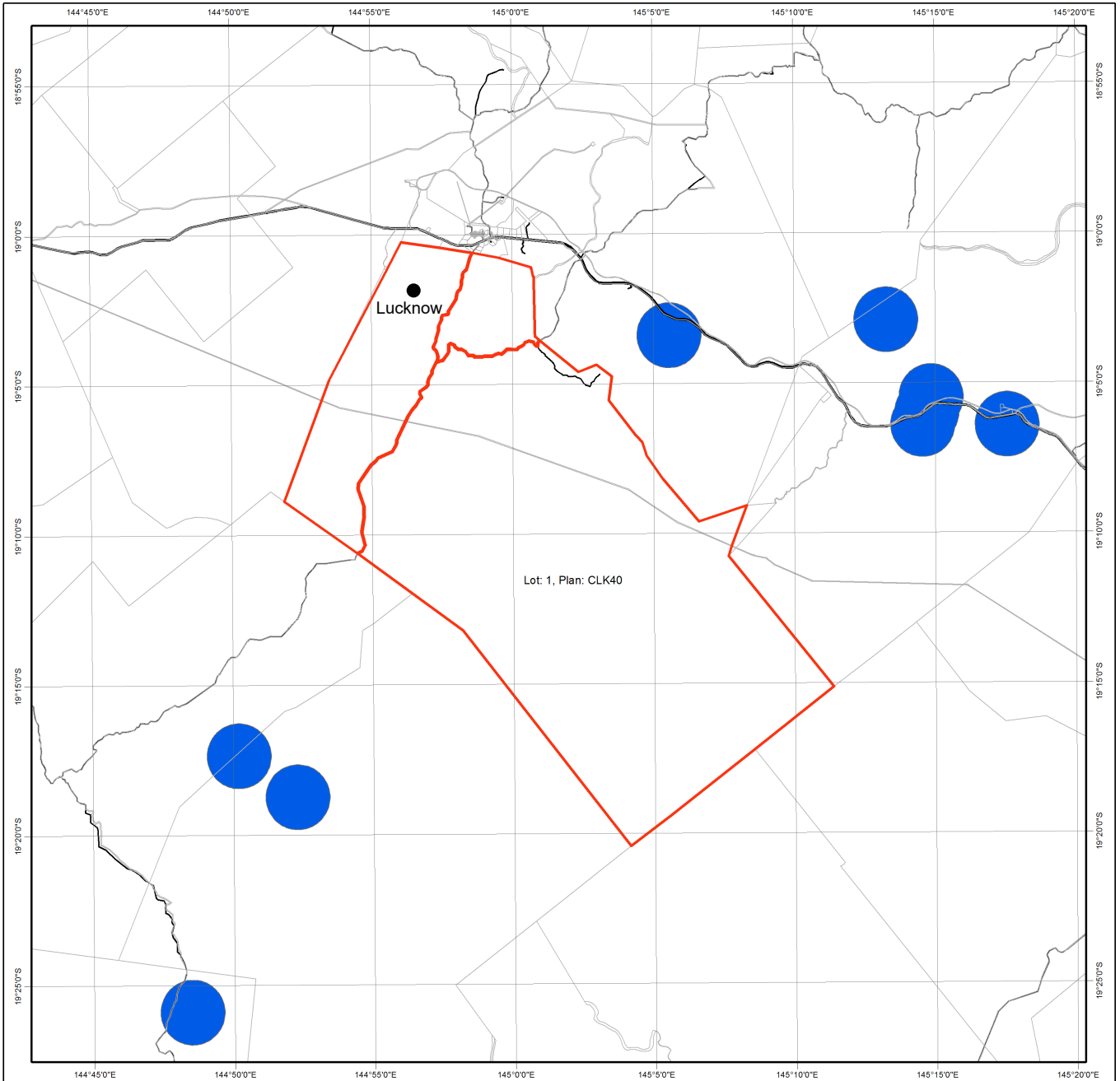
This product is projected into:
 GDA 1994 Queensland Albers

This map shows areas where particular provisions of the Nature Conservation Act 1992 apply to the clearing of protected plants.

This map is produced at a scale relevant to the size of the area selected and should be printed as A4 size in portrait orientation.







For further information or assistance with interpretation of this product, please contact the Department of Environment and Science at palm@ehp.qld.gov.au

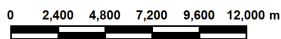
Disclaimer:
 While every care is taken to ensure the accuracy of the data used to generate this product, the Queensland Government makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaim all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damages) and costs which might be incurred as a consequence of reliance on the data, or as a result of the data being inaccurate or incomplete in any way and for any reason.



Protected Plants Flora Survey Trigger Map

Legend

-  Lot and Plan
-  High risk area
-  Cadastral line
-  Property boundaries shown are provided as a locational aid only
-  Freeways / motorways / highways
-  Secondary roads / streets



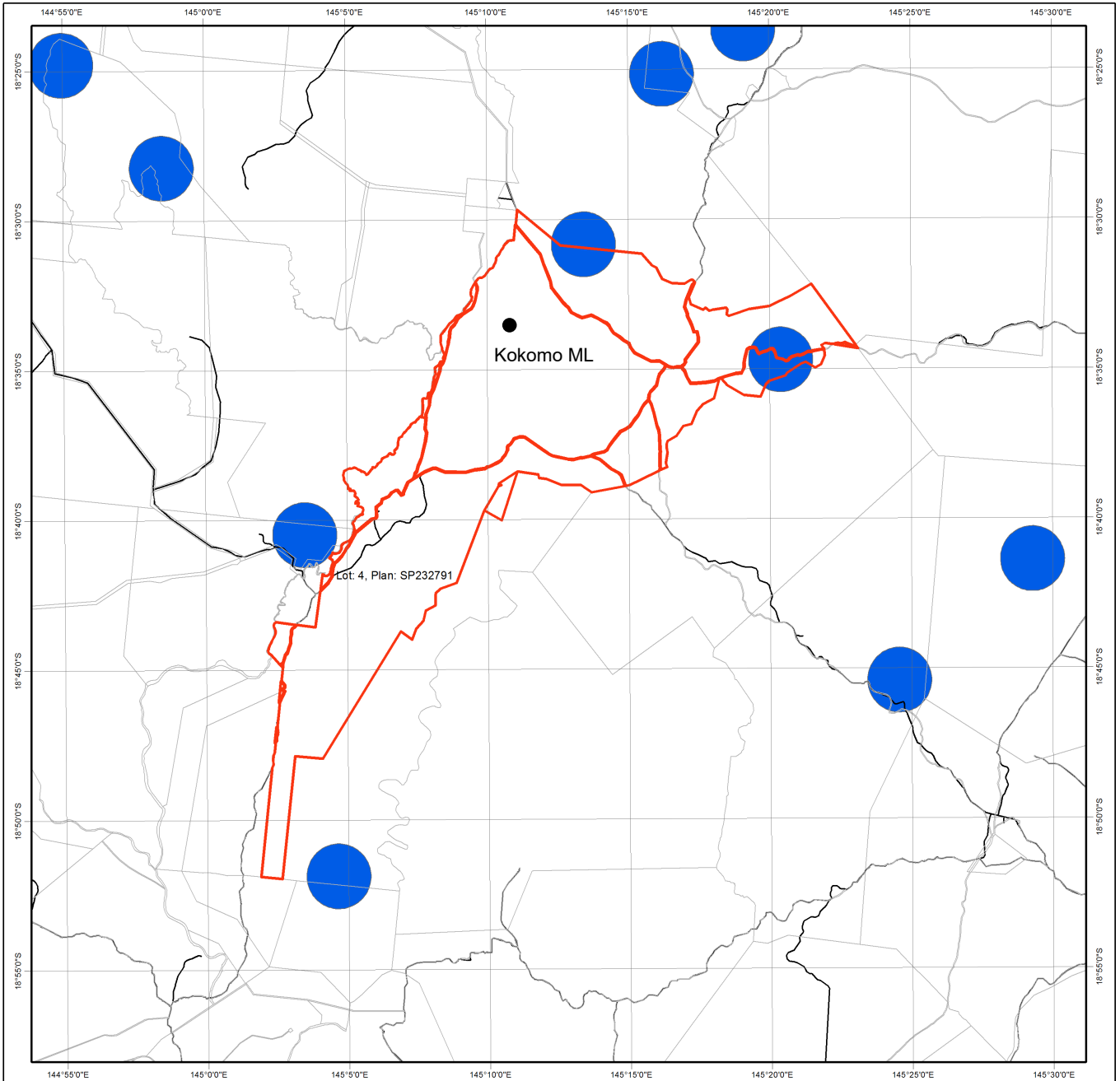
This product is projected into:
GDA 1994 Queensland Albers

This map shows areas where particular provisions of the Nature Conservation Act 1992 apply to the clearing of protected plants.

This map is produced at a scale relevant to the size of the area selected and should be printed as A4 size in portrait orientation.







For further information or assistance with interpretation of this product, please contact the Department of Environment and Science at palm@ehp.qld.gov.au

Disclaimer:
While every care is taken to ensure the accuracy of the data used to generate this product, the Queensland Government makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaim all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damages) and costs which might be incurred as a consequence of reliance on the data, or as a result of the data being inaccurate or incomplete in any way and for any reason.



Protected Plants Flora Survey Trigger Map

Legend

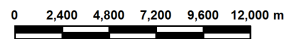
-  Lot and Plan
-  High risk area
-  Cadastral line
-  Property boundaries shown are provided as a locational aid only
-  Freeways / motorways / highways
-  Secondary roads / streets



This map shows areas where particular provisions of the Nature Conservation Act 1992 apply to the clearing of protected plants.

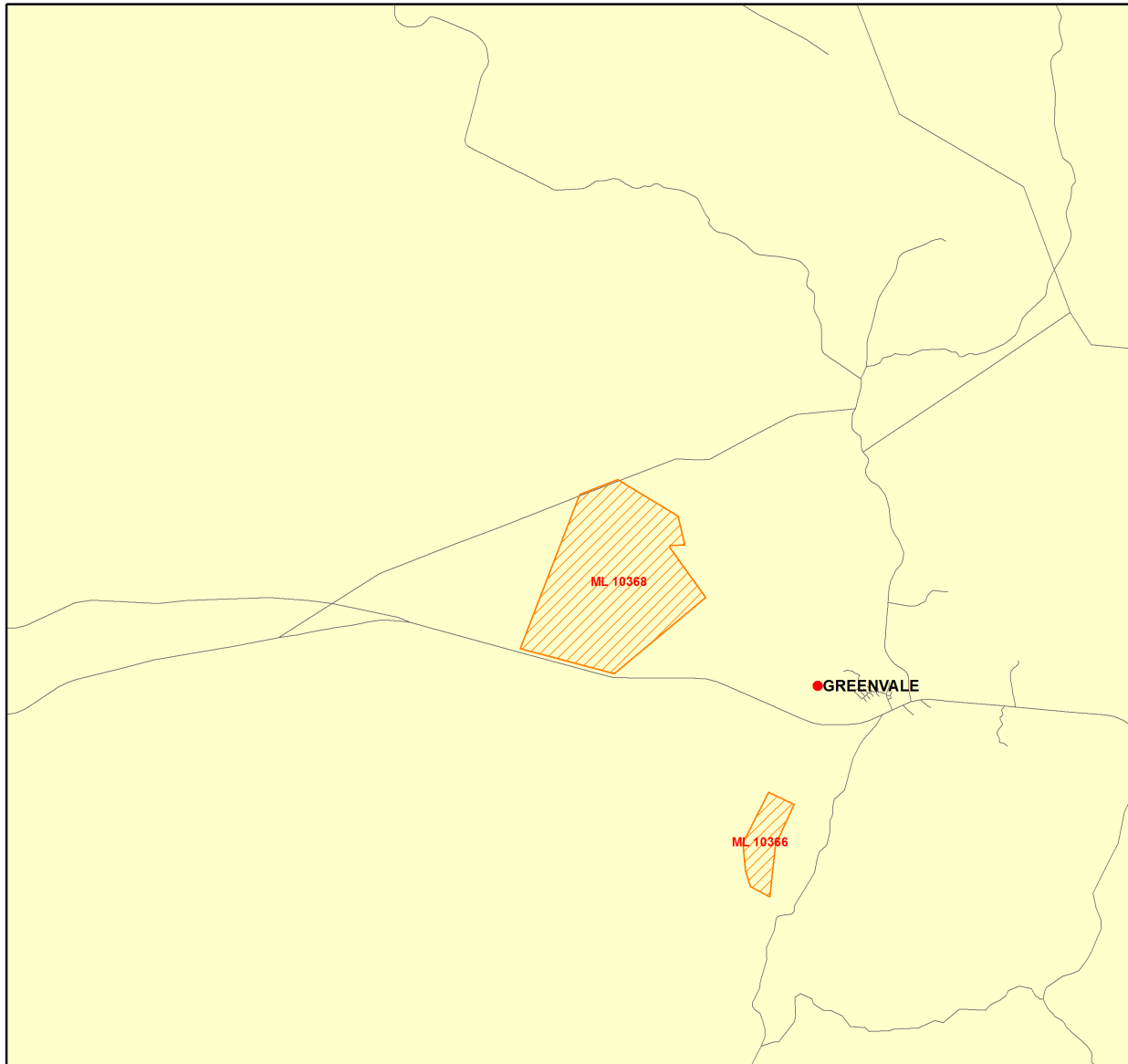
This map is produced at a scale relevant to the size of the area selected and should be printed as A4 size in portrait orientation.

For further information or assistance with interpretation of this product, please contact the Department of Environment and Science at palm@ehp.qld.gov.au



This product is projected into:
 GDA 1994 Queensland Albers

Disclaimer:
 While every care is taken to ensure the accuracy of the data used to generate this product, the Queensland Government makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaim all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damages) and costs which might be incurred as a consequence of reliance on the data, or as a result of the data being inaccurate or incomplete in any way and for any reason.



ENVIRONMENTALLY SENSITIVE AREAS - Mining Activities

- | | |
|---|---|
| Mining Leases | CATEGORY C |
| CATEGORY A | Nature Refuges |
| National Parks | Resources Reserve |
| Conservation Parks | State Forests |
| Forest Reserves | Timber Reserves |
| Wet Tropics World Heritage Area | Declared Catchment Areas |
| Great Barrier Reef Marine Park Area | Declared Irrigation Areas |
| Marine Parks other than General Use Zones | Drainage Areas |
| CATEGORY B | River Improvement Areas |
| World Heritage Areas | Stanbroke DLA |
| Queensland Heritage Register Places | Coastal Management District |
| Ramsar Sites | Dams and Weirs |
| Cultural Heritage Registered Areas and DLA's other than Stanbroke | OTHERS |
| Special Forestry Areas | Towns |
| Fish Habitat Areas | Roads |
| Koala Plan | Repealed Wild River Nominated Waterways |
| Coordinated Conservation Areas | Repealed Wild River Preservation Areas |
| Endangered Regional Ecosystems (Biodiversity Status) | Repealed Wild River High Preservation Areas |
| Marine Parks other than General Use Zones | Mahogany Glider Habitat |
| Marine Plants | Directory of Important Wetlands |
| | Queensland |



This product is projected into GDA 1994 MGA Zone 55

Information presented on this product is distributed by the Queensland Government as an information source only. While every care is taken to ensure the accuracy of this data, the State of Queensland makes no statements, representations or warranties about the accuracy, reliability, completeness or suitability of any information contained in this product.

The State of Queensland disclaims all responsibility for information contained in this product and all liability (including without limitation, liability in negligence) 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.

External contributors (non-government parties) of the data for this product are: Great Barrier Reef Marine Park Authority

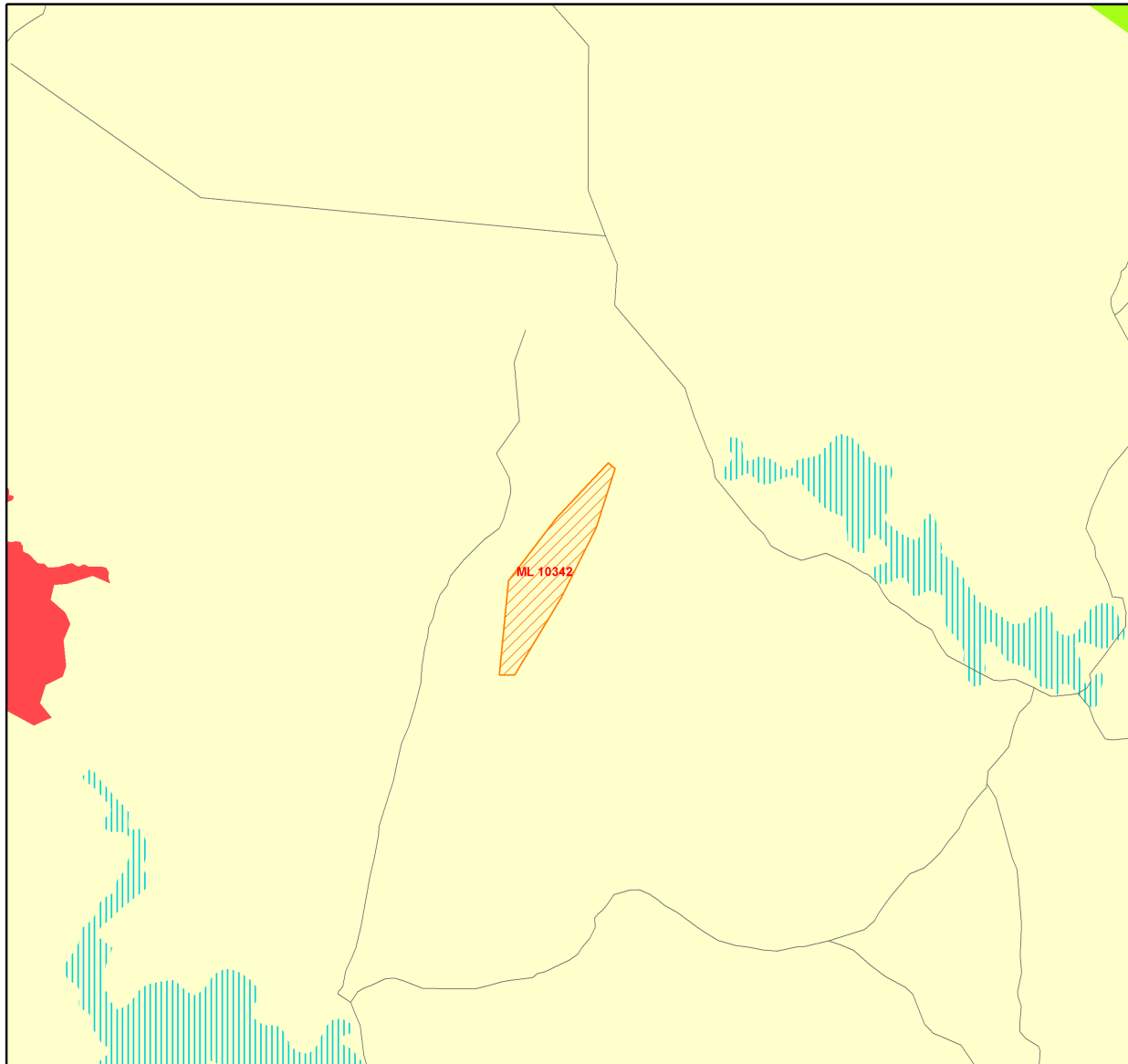
Regional ecosystem mapping (remnant biodiversity status) may incorporate amendments, resulting from property level assessments, to the release version of the mapping available on QSpatial.

NOTE TO USER: Themes presented in this map are indicative only. Field survey may be required to verify the 'true' spatial extent and value. Not all environmentally sensitive areas are presented in this map. A user should refer to the particular circumstances relevant to their situation to assess the 'completeness' of themes provided.

The user should note that some boundaries and indicated values are ambient and may change over time (e.g. regional ecosystem boundaries and conservation status, watercourse mapping etc).

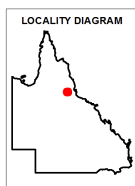
The user should be aware that due to multiple overlapping themes/layers present, some themes/layers may be obscured by others. Ordering in the Legend does not accurately reflect the order by which themes/layers are displayed.

© The State of Queensland, 2018



ENVIRONMENTALLY SENSITIVE AREAS - Mining Activities

- | | | | | |
|-------------------|---|-------------------|---|----------------|
| | Mining Leases | CATEGORY C | | Nature Refuges |
| CATEGORY A | National Parks | | Resources Reserve | |
| | Conservation Parks | | State Forests | |
| | Forest Reserves | | Timber Reserves | |
| | Wet Tropics World Heritage Area | | Declared Catchment Areas | |
| | Great Barrier Reef Marine Park Area | | Declared Irrigation Areas | |
| | Marine Parks other than General Use Zones | | Drainage Areas | |
| CATEGORY B | World Heritage Areas | | River Improvement Areas | |
| | Queensland Heritage Register Places | | Stanbroke DLA | |
| | Ramsar Sites | | Coastal Management District | |
| | Cultural Heritage Registered Areas and DLA's other than Stanbroke | | Dams and Weirs | |
| | Special Forestry Areas | OTHERS | | |
| | Fish Habitat Areas | | Towns | |
| | Koala Plan | | Roads | |
| | Coordinated Conservation Areas | | Repealed Wild River Nominated Waterways | |
| | Endangered Regional Ecosystems (Biodiversity Status) | | Repealed Wild River Preservation Areas | |
| | Marine Parks other than General Use Zones | | Repealed Wild River High Preservation Areas | |
| | Marine Plants | | Mahogany Glider Habitat | |
| | | | Directory of Important Wetlands | |
| | | | Queensland | |



This product is projected into GDA 1994 MGA Zone 55

Information presented on this product is distributed by the Queensland Government as an information source only. While every care is taken to ensure the accuracy of this data, the State of Queensland makes no statements, representations or warranties about the accuracy, reliability, completeness or suitability of any information contained in this product.

The State of Queensland disclaims all responsibility for information contained in this product and all liability (including without limitation, liability in negligence) 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.

External contributors (non-government parties) of the data for this product are: Great Barrier Reef Marine Park Authority

Regional ecosystem mapping (remnant biodiversity status) may incorporate amendments, resulting from property level assessments, to the release version of the mapping available on QSpatial.

NOTE TO USER: Themes presented in this map are indicative only. Field survey may be required to verify the 'true' spatial extent and value. Not all environmentally sensitive areas are presented in this map. A user should refer to the particular circumstances relevant to their situation to assess the 'completeness' of themes provided.

The user should note that some boundaries and indicated values are ambient and may change over time (e.g. regional ecosystem boundaries and conservation status, watercourse mapping etc).

The user should be aware that due to multiple overlapping themes/layers present, some themes/layers may be obscured by others. Ordering in the Legend does not accurately reflect the order by which themes/layers are displayed.

© The State of Queensland, 2018

Appendix B Species of Conservation Significance near the Project site

FLORA SPECIES OF CONSERVATION SIGNIFICANCE NEAR THE PROJECT SITE

Table 1 Flora species of Conservation Significance identified near the Greenvale tenement from Desktop Searches

| Scientific Name | Common Name | EPBC status | NC Act status | Presence in Buffer Area | | |
|--|---|-------------|---------------|-------------------------|-------|--------|
| | | | | 5 km | 25 km | 100 km |
| <i>Acacia crombiei</i> | Pink Gidgee | V | V | x | x | x |
| <i>Acacia tingoorensis</i> | | NL | V | | | x |
| <i>Arytera dictyoneura</i> | | NL | NT | | | x |
| <i>Bulbophyllum globuliforme</i> | Miniature Moss-orchid, Hoop Pine Orchid | V | NT | | | x |
| <i>Cajanus mareebensis</i> | | E | LC | x | x | x |
| <i>Carex breviscapa</i> | | NL | V | | | x |
| <i>Commersonia reticulata</i> | | NL | V | | | x |
| <i>Corybas cerasinus</i> | | NL | NT | | | x |
| <i>Croton magneticus</i> | | NL | V | | | x |
| <i>Cycas cairnsiana</i> | Cycad | V | V | | | x |
| <i>Cycas desolata</i> | Cycad | NL | V | | | x |
| <i>Cycas platyphylla</i> | Cycad | V | V | | x | x |
| <i>Dichanthium queenslandicum</i> | King Blue Grass | E | V | | | x |
| <i>Dichanthium setosum</i> | Bluegrass | V | LC | x | x | x |
| <i>Goodyera viridiflora</i> | | NL | NT | | | x |
| <i>Grevillea glossadenia</i> | | V | V | | | x |
| <i>Habenaria hymenophylla</i> | Rainforest Habenaria | NL | NT | | | x |
| <i>Ipomoea saintronanensis</i> | | NL | V | | | x |
| <i>Kunzea truncata</i> | | NL | E | | | x |
| <i>Leptospermum pallidum</i> | | NL | NT | | x | x |
| <i>Lepturus minutus</i> | | NL | V | | x | x |
| <i>Lindsaea pulchella</i> var. <i>blanda</i> | | V | EW | | | x |
| <i>Macropteranthes montana</i> | | V | V | | | x |

B

| Scientific Name | Common Name | EPBC status | NC Act status | Presence in Buffer Area | | |
|----------------------------------|---------------------|-------------|---------------|-------------------------|-------|--------|
| | | | | 5 km | 25 km | 100 km |
| <i>Marsdenia brevifolia</i> | | V | V | | | x |
| <i>Oenanthe javanica</i> | | NL | NT | | | x |
| <i>Oldenlandia polyclada</i> | | NL | NT | | | x |
| <i>Paspalidium udum</i> | | NL | V | | | x |
| <i>Phaius australis</i> | Lesser Swamp-orchid | E | E | | | x |
| <i>Phaius pictus</i> | | V | V | | | x |
| <i>Phalaenopsis rosenstromii</i> | | E | E | | | x |
| <i>Rhomboda polygonoides</i> | | V | V | | | x |
| <i>Solanum angustum</i> | | NL | E | | | x |
| <i>Tephrosia leveillei</i> | | V | V | | | x |
| <i>Tropilis callitrophilis</i> | Thin Feather Orchid | V | V | | | x |

EPBC – Environment Protection and Biodiversity Conservation Act 1999

NC Act – Nature Conservation Act 1992

LC – Least Concern

CE – Critically Endangered

E – Endangered

NL – Not listed

NT – Near Threatened

V – Vulnerable

EW – Extinct in the Wild

Table 2 Flora Species of Conservation Significance identified near the Lucknow tenement from Desktop Searches

| Scientific Name | Common Name | EPBC status | NC Act status | Presence in Buffer Area | | |
|---|--|-------------|---------------|-------------------------|-------|--------|
| | | | | 5 km | 25 km | 100 km |
| <i>Acacia crombiei</i> | Pink Gidgee | V | V | x | x | x |
| <i>Acacia tingoorensis</i> | | NL | V | | | x |
| <i>Arytera dictyoneura</i> | | NL | NT | | | x |
| <i>Bulbophyllum globuliforme</i> | Miniature Moss-orchid, Hoop Pine Orchid | V | NT | | | x |
| <i>Cajanus mareebensis</i> | | E | LC | x | x | x |
| <i>Carex breviscapa</i> | | NL | V | | | x |
| <i>Commersonia reticulata</i> | | NL | V | | | x |
| <i>Corybas cerasinus</i> | | NL | NT | | | x |
| <i>Croton magneticus</i> | | NL | V | | | x |
| <i>Cycas cairnsiana</i> | Cycad | V | V | | | x |
| <i>Cycas platyphylla</i> | Cycad | V | V | x | x | x |
| <i>Dichanthium queenslandicum</i> | King Blue Grass | E | V | | | x |
| <i>Dichanthium setosum</i> | Bluegrass | V | LC | x | x | x |
| <i>Grevillea glossadenia</i> | | V | V | | | x |
| <i>Glossocardia orthochaeta</i> | | NL | E | | | x |
| <i>Ipomoea saintroanensis</i> | | NL | V | | | x |
| <i>Kunzea truncata</i> | | NL | E | | | x |
| <i>Leptospermum pallidum</i> | | NL | NT | | x | x |
| <i>Lepturus minutus</i> | | NL | V | | x | x |
| <i>Lindsaea pulchella</i> var. <i>blanda</i> | | V | EW | | | x |

| Scientific Name | Common Name | EPBC status | NC Act status | Presence in Buffer Area | | |
|----------------------------------|---------------------|-------------|---------------|-------------------------|-------|--------|
| | | | | 5 km | 25 km | 100 km |
| <i>Macropteranthes montana</i> | | V | V | | | x |
| <i>Marsdenia brevifolia</i> | | V | V | | | x |
| <i>Oenanthe javanica</i> | | NL | NT | | | x |
| <i>Oldenlandia polyclada</i> | | NL | NT | | | x |
| <i>Paspalidium udum</i> | | NL | V | | | x |
| <i>Phaius australis</i> | Lesser Swamp-orchid | E | E | | | x |
| <i>Phaius pictus</i> | | V | V | | | x |
| <i>Phalaenopsis rosenstromii</i> | | E | E | | | x |
| <i>Rhomboda polygonoides</i> | | V | V | | | x |
| <i>Solanum angustum</i> | | NL | E | | | x |
| <i>Tephrosia leveillei</i> | | V | V | | | x |
| <i>Tropilis callitrophilis</i> | Thin Feather Orchid | V | V | | | x |

EPBC – Environment Protection and Biodiversity Conservation Act 1999

NC Act – Nature Conservation Act 1992

LC – Least Concern

CE – Critically Endangered

E – Endangered

NL – Not listed

NT – Near Threatened

V – Vulnerable

EW – Extinct in the Wild

Table 3 Flora Species of Conservation Significance identified near the Kokomo tenement from the Desktop Searches

| Scientific Name | Common Name | EPBC status | NC Act status | Presence in Buffer Area | | |
|--|--|-------------|---------------|-------------------------|-------|--------|
| | | | | 5 km | 25 km | 100 km |
| <i>Acacia crombiei</i> | Pink Gidgee | V | V | | x | x |
| <i>Acacia longipedunculata</i> | | NL | NT | | | x |
| <i>Acacia purpuropetala</i> | | CE | V | | | x |
| <i>Acacia tingoorensis</i> | | NL | V | | x | x |
| <i>Alloxylon flammeum</i> | Tree Waratah | V | V | | | x |
| <i>Antrophyum plantagineum</i> | | NL | NT | | | x |
| <i>Aponogeton bullosus</i> | | E | E | | | x |
| <i>Arenga australasica</i> | Australian Arenga Palm | NL | V | | | x |
| <i>Arytera dictyoneura</i> | | NL | NT | | | x |
| <i>Bulbophyllum globuliforme</i> | Miniature Moss-orchid, Hoop Pine Orchid | V | NT | | | x |
| <i>Cajanus mareebensis</i> | | E | LC | x | x | x |
| <i>Calochlaena villosa</i> | | NL | NT | | | x |
| <i>Canarium acutifolium</i> var. <i>acutifolium</i> | | V | V | | | x |
| <i>Carex breviscapa</i> | | NL | V | | | x |
| <i>Carronia pedicellata</i> | | E | E | | | x |
| <i>Cheilocostus potierae</i> | | NL | E | | | x |
| <i>Chingia australis</i> | | E | E | | | x |
| <i>Comesperma praecelsum</i> | | NL | V | | | x |
| <i>Commersonia reticulata</i> | | NL | V | | | x |
| <i>Corchorus subargenteus</i> | | NL | V | | | x |
| <i>Corybas abellianus</i> | Nodding Helmet Orchid | NL | NT | | | x |
| <i>Corybas cerasinus</i> | | NL | NT | | | x |
| <i>Corymbia leptoloma</i> | | V | V | | | x |

B

| Scientific Name | Common Name | EPBC status | NC Act status | Presence in Buffer Area | | |
|-----------------------------------|-------------------------------|-------------|---------------|-------------------------|-------|--------|
| | | | | 5 km | 25 km | 100 km |
| <i>Corymbia rhodops</i> | | V | V | | | x |
| <i>Crepidium flavovirens</i> | | NL | V | | | x |
| <i>Croton magneticus</i> | | NL | V | | | x |
| <i>Cyathea celebica</i> | | NL | NT | | | x |
| <i>Cycas cairnsiana</i> | Cycad | V | V | | | x |
| <i>Cycas desolata</i> | Cycad | NL | V | | | x |
| <i>Cycas platyphylla</i> | Cycad | V | V | | | x |
| <i>Cyperus cephalotes</i> | | E | E | | | x |
| <i>Dansiea elliptica</i> | | NL | NT | | | x |
| <i>Dichanthium queenslandicum</i> | King Blue Grass | E | V | | | x |
| <i>Dichanthium setosum</i> | Bluegrass | V | LC | x | x | x |
| <i>Didymoplexis pallens</i> | Crystal Bells | NL | NT | | | x |
| <i>Dioclea hexandra</i> | | NL | V | | | x |
| <i>Diploglottis pedleyi</i> | | NL | NT | | | x |
| <i>Dipteris conjugata</i> | | NL | NT | | | x |
| <i>Diuris oporina</i> | Northern White Donkey's Tails | NL | NT | | | x |
| <i>Dodonaea uncinata</i> | | NL | NT | | | x |
| <i>Drosera adelae</i> | | NL | NT | | | x |
| <i>Dryopteris hasseltii</i> | | NL | NT | | | x |
| <i>Dryopteris wattsii</i> | | NL | V | | | |
| <i>Eleocharis retroflexa</i> | | NL | E | | | x |
| <i>Endiandra bellendenkerana</i> | | NL | NT | | | x |
| <i>Endiandra globosa</i> | Ball-fruited Walnut | NL | NT | | | x |
| <i>Eulophia bicallosa</i> | | NL | NT | | | x |
| <i>Euphorbia carissoides</i> | | V | V | | | x |
| <i>Firmiana papuana</i> | Lacewood | NL | V | | | x |
| <i>Genoplesium tectum</i> | Cardwell Midge Orchid | E | E | | | x |

B

| Scientific Name | Common Name | EPBC status | NC Act status | Presence in Buffer Area | | |
|--|----------------------|-------------|---------------|-------------------------|-------|--------|
| | | | | 5 km | 25 km | 100 km |
| <i>Glossocardia orthochaeta</i> | | NL | E | | | x |
| <i>Goodyera viridiflora</i> | | NL | NT | | | x |
| <i>Grevillea glossadenia</i> | | V | V | | x | x |
| <i>Habenaria hymenophylla</i> | Rainforest Habenaria | NL | NT | | | x |
| <i>Habenaria rumphii</i> | | NL | NT | | | x |
| <i>Habenaria xanthantha</i> | | NL | NT | | | x |
| <i>Hedyotis novoguineensis</i> | | NL | E | | | x |
| <i>Homoranthus porteri</i> | | V | V | | | x |
| <i>Hymenophyllum pallidum</i> | | NL | NT | | | x |
| <i>Ipomoea saintronanensis</i> | | NL | V | | x | x |
| <i>Kunzea truncata</i> | | NL | E | | | x |
| <i>Lasjia grandis</i> | | NL | V | | | x |
| <i>Lastreopsis walleri</i> | Fern | V | V | | | x |
| <i>Leptospermum pallidum</i> | | NL | NT | | x | x |
| <i>Lepturus minutus</i> | | NL | V | | | x |
| <i>Lindsaea pulchella</i> var. <i>blanda</i> | | V | EW | | | x |
| <i>Livistona drudei</i> | Halifax Fan Palm | NL | V | | | x |
| <i>Macropteranthes montana</i> | | V | V | | | x |
| <i>Marsdenia brevifolia</i> | | V | V | | | x |
| <i>Melaleuca sylvana</i> | | NL | E | | | x |
| <i>Myrmecodia beccarii</i> | Ant Plant | V | V | | | x |
| <i>Oenanthe javanica</i> | | NL | NT | | | x |
| <i>Oldenlandia polyclada</i> | | NL | NT | | | x |

| Scientific Name | Common Name | EPBC status | NC Act status | Presence in Buffer Area | | |
|--------------------------------------|------------------------|-------------|---------------|-------------------------|-------|--------|
| | | | | 5 km | 25 km | 100 km |
| <i>Pararistolochia praevenosa</i> | | NL | NT | | | x |
| <i>Paspalidium udum</i> | | NL | V | | x | x |
| <i>Peristylus banfieldii</i> | | NL | E | | | x |
| <i>Phaius australis</i> | Lesser Swamp-orchid | E | E | | | x |
| <i>Phaius pictus</i> | | V | V | | | x |
| <i>Phalaenopsis rosenstromii</i> | | E | E | | | x |
| <i>Phlegmariurus filiformis</i> | Rat's Tail Tassel-fern | E | E | | | x |
| <i>Phlegmariurus lockyeri</i> | | V | V | | | x |
| <i>Phlegmariurus marsupiformis</i> | Water Tassel-fern | V | V | | | x |
| <i>Phlegmariurus phlegmarioides</i> | | NL | V | | | |
| <i>Phlegmariurus tetrastichoides</i> | Square Tassel Fern | V | V | | | x |
| <i>Pneumatopteris costata</i> | Middle Filmy Fern | NL | NT | | | x |
| <i>Prostanthera clotteniana</i> | | CE | E | | | x |
| <i>Solanum angustum</i> | | NL | E | | | x |
| <i>Solanum hamulosum</i> | | NL | E | | | x |
| <i>Solanum graniticum</i> | | NL | E | | | x |
| <i>Sphaerantia discolor</i> | Tully Penda | NL | V | | | x |
| <i>Steghanthera australiana</i> | | NL | NT | | | x |
| <i>Tephrosia leveillei</i> | | V | V | | | x |
| <i>Triplarina nitchaga</i> | | V | V | | | x |
| <i>Torenia polygonoides</i> | | NL | V | | | x |
| <i>Tropilis callitrophilis</i> | Thin Feather Orchid | V | V | | x | x |
| <i>Vappodes lithocola</i> | | E | | | | x |

B

| Scientific Name | Common Name | EPBC status | NC Act status | Presence in Buffer Area | | |
|--------------------------------|---------------------|-------------|---------------|-------------------------|-------|--------|
| | | | | 5 km | 25 km | 100 km |
| <i>Waterhousea mulgraveana</i> | | NL | V | | | x |
| <i>Zeuxine polygonoides</i> | Velvet Jewel Orchid | V | V | | | x |

EPBC – Environment Protection and Biodiversity Conservation Act 1999

NC Act – Nature Conservation Act 1992

LC – Least Concern

CE – Critically Endangered

E – Endangered

NL – Not listed

NT – Near Threatened

V – Vulnerable

EW – Extinct in the Wild

FAUNA SPECIES OF CONSERVATION SIGNIFICANCE NEAR THE PROJECT SITE

Table 4 Fauna Species of Conservation Significance identified near the Greenvale tenement from Desktop Searches

| Scientific Name | Common Name | EPBC status | NC Act status | Presence in Buffer Area | | |
|---|---------------------------------|-------------|---------------|-------------------------|-------|--------|
| | | | | 5 km | 25 km | 100 km |
| Amphibians | | | | | | |
| <i>Litoria dayi</i> | Australian Lace-lid | E | E | | | x |
| <i>Litoria nannotis</i> | Waterfall Frog | E | E | | | x |
| <i>Litoria rheocola</i> | Common Mistfrog | E | E | | | x |
| <i>Litoria serrata</i> | Tapping Green Eyed Frog | NL | V | | | x |
| <i>Pseudophryne covacevichae</i> | Magnificent Brood Frog | V | V | | | x |
| Birds | | | | | | |
| <i>Callidris ferruginea</i> | Curlew Sandpiper | CE | E | x | x | x |
| <i>Casuarius casuarius johnsonii</i> | Southern Cassowary | E | E | | | x |
| <i>Cyclopsitta diophthalma macleayana</i> | Macleay's Fig-parrot | NL | V | | | x |
| <i>Erythrotriorchis radiatus</i> | Red Goshawk | V | E | x | x | x |
| <i>Erythrura gouldiae</i> | Gouldian Finch | E | E | x | x | x |
| <i>Falco hypoleucos</i> | Grey Falcon | NL | V | | | x |
| <i>Geophaps scripta scripta</i> | Squatter Pigeon (southern) | V | V | | | x |
| <i>Neochmia ruficauda ruficauda</i> | Star Finch (eastern) | E | E | | x | x |
| <i>Numenius madagascariensis</i> | Eastern Curlew | CE | E | | | x |
| <i>Poephila cincta cincta</i> | Black-throated Finch (southern) | E | E | x | x | x |
| <i>Rostratula australis</i> | Australian Painted Snipe | E | V | x | x | x |

| Scientific Name | Common Name | EPBC status | NC Act status | Presence in Buffer Area | | |
|---------------------------------------|--|-------------|---------------|-------------------------|-------|--------|
| | | | | 5 km | 25 km | 100 km |
| <i>Tyto novaehollandiae kimberli</i> | Masked Owl | V | V | x | x | x |
| Mammals | | | | | | |
| <i>Bettongia tropica</i> | Northern Bettong | E | E | | | x |
| <i>Dasyurus hallucatus</i> | Northern Quoll | E | LC | x | x | x |
| <i>Dasyurus maculatus gracilis</i> | Spotted-tailed Quoll | E | E | | | x |
| <i>Dendrolagus lumholtzi</i> | Lumholtz's Tree-kangaroo | NL | NT | | | x |
| <i>Hipposideros diadema reginae</i> | Diadem Leaf-nosed Bat | NL | NT | | | x |
| <i>Hipposideros semoni</i> | Semon's Leaf-nosed Bat | V | E | | | x |
| <i>Macroderma gigas</i> | Ghost Bat | V | E | x | x | x |
| <i>Mesembriomys gouldii rattoides</i> | Black-footed Tree-rat (north Queensland) | V | LC | x | x | x |
| <i>Murina florium</i> | Tube-nosed Insectivorous Bat | NL | V | | | x |
| <i>Petauroides volans</i> | Greater Glider | V | V | x | x | x |
| <i>Petaurus gracilis</i> | Mahogany Glider | E | E | | | x |
| <i>Petrogale sharmani</i> | Sharman's Rock-wallaby | V | V | | | x |
| <i>Phascolarctos cinereus</i> | Koala | V | V | x | x | x |
| <i>Pteropus conspicillatus</i> | Spectacled Flying-fox | V | E | x | x | x |
| <i>Pteropus poliocephalus</i> | Grey-headed Flying-fox | V | LC | | | x |
| <i>Rhinolophus philippinensis</i> | Greater Large-eared Horseshoe Bat | E | E | | x | x |
| <i>Rhinolophus robertsi</i> | Bare-rumped Sheath-tailed Bat | V | E | x | x | x |

| Scientific Name | Common Name | EPBC status | NC Act status | Presence in Buffer Area | | |
|--|---------------------------------------|-------------|---------------|-------------------------|-------|--------|
| | | | | 5 km | 25 km | 100 km |
| <i>Saccolaimus saccolaimus nudicluniatus</i> | Bare-rumped Sheath-tail Bat | V | E | x | x | x |
| <i>Sminthopsis archeri</i> | Chestnut Dunnart | NL | NT | | | x |
| Reptiles | | | | | | |
| <i>Acanthophis antarcticus</i> | Common Death Adder | NL | V | | | x |
| <i>Crocodylus porosus</i> | Salt-water Crocodile | NL | V | | | x |
| <i>Ctenotus monticola</i> | Atherton ctenotus | NL | V | | | x |
| <i>Delma mitella</i> | | V | NT | | | x |
| <i>Denisonia maculata</i> | Ornamental Snake | V | V | | | x |
| <i>Egernia rugosa</i> | Yakka Skink | V | V | x | x | x |
| <i>Lerista ameles</i> | | NL | V | | | x |
| <i>Lerista hobsoni</i> | Hobson's fine-line slider | NL | V | | | x |
| <i>Lerista vanderduysi</i> | Leaden-bellied fine-line slider | V | V | | | x |
| <i>Lygisaurus rococo</i> | | NL | NT | | | x |
| Insects | | | | | | |
| <i>Hypochrysops apollo apollo</i> | Apollo jewel (Wet Tropics subspecies) | NL | V | | | x |

EPBC – Environment Protection and Biodiversity Conservation Act 1999

NC Act – Nature Conservation Act 1992

LC – Least Concern

CE – Critically Endangered

E – Endangered

NL – Not listed

NT – Near Threatened

V – Vulnerable

EW – Extinct in the Wild

Table 5 Fauna Species of Conservation Significance identified near the Lucknow tenement from Desktop Searches

| Scientific Name | Common Name | EPBC status | NC Act status | Presence in Buffer Area | | |
|---|---------------------------------|-------------|---------------|-------------------------|-------|--------|
| | | | | 5 km | 25 km | 100 km |
| Amphibians | | | | | | |
| <i>Litoria dayi</i> | Australian Lace-lid | E | E | | | x |
| <i>Litoria nannotis</i> | Waterfall Frog | E | E | | | x |
| <i>Litoria rheocola</i> | Common Mistfrog | E | E | | | x |
| <i>Litoria serrata</i> | Tapping Green Eyed Frog | NL | V | | | x |
| <i>Pseudophryne covacevichae</i> | Magnificent Brood Frog | V | V | | | x |
| Birds | | | | | | |
| <i>Callidris ferruginea</i> | Curlew Sandpiper | CE | E | x | x | x |
| <i>Casuarius casuarius johnsonii</i> | Southern Cassowary | E | E | | | x |
| <i>Cyclopsitta diophthalma macleayana</i> | Macleay's Fig-parrot | NL | V | | | x |
| <i>Erythrotriorchis radiatus</i> | Red Goshawk | V | E | x | x | x |
| <i>Erythrura gouldiae</i> | Gouldian Finch | E | E | x | x | x |
| <i>Falco hypoleucos</i> | Grey Falcon | NL | V | | | x |
| <i>Geophaps scripta scripta</i> | Squatter Pigeon (southern) | V | V | | | x |
| <i>Neochmia ruficauda ruficauda</i> | Star Finch (eastern) | E | E | | x | x |
| <i>Numenius madagascariensis</i> | Eastern Curlew | CE | E | | | x |
| <i>Poephila cincta cincta</i> | Black-throated Finch (southern) | E | E | x | x | x |
| <i>Rostratula australis</i> | Australian Painted Snipe | E | V | x | x | x |
| <i>Tyto novaehollandiae kimberli</i> | Masked Owl | V | V | x | x | x |

B

| Scientific Name | Common Name | EPBC status | NC Act status | Presence in Buffer Area | | |
|--|--|-------------|---------------|-------------------------|-------|--------|
| | | | | 5 km | 25 km | 100 km |
| Mammals | | | | | | |
| <i>Bettongia tropica</i> | Northern Bettong | E | E | | | x |
| <i>Dasyurus hallucatus</i> | Northern Quoll | E | LC | x | x | x |
| <i>Dasyurus maculatus gracilis</i> | Spotted-tailed Quoll | E | E | | | x |
| <i>Dendrolagus lumholtzi</i> | Lumholtz's Tree-kangaroo | NL | NT | | | x |
| <i>Hipposideros diadema reginae</i> | Diadem Leaf-nosed Bat | NL | NT | | | x |
| <i>Hipposideros semoni</i> | Semon's Leaf-nosed Bat | V | E | | | x |
| <i>Macroderma gigas</i> | Ghost Bat | V | E | x | x | x |
| <i>Mesembriomys gouldii rattoides</i> | Black-footed Tree-rat (north Queensland) | V | LC | x | x | x |
| <i>Murina florium</i> | Tube-nosed Insectivorous Bat | NL | V | | | x |
| <i>Petauroides volans</i> | Greater Glider | V | V | x | x | x |
| <i>Petaurus gracilis</i> | Mahogany Glider | E | E | | | x |
| <i>Petrogale sharmani</i> | Sharman's Rock-wallaby | V | V | | | x |
| <i>Phascolarctos cinereus</i> | Koala | V | V | x | x | x |
| <i>Pteropus conspicillatus</i> | Spectacled Flying-fox | V | E | x | x | x |
| <i>Pteropus poliocephalus</i> | Grey-headed Flying-fox | V | LC | | | x |
| <i>Rhinolophus philippinensis</i> | Greater Large-eared Horseshoe Bat | E | E | | | x |
| <i>Rhinolophus robertsi</i> | Bare-rumped Sheath-tailed Bat | V | E | x | x | x |
| <i>Saccolaimus saccolaimus nudicluniatus</i> | Bare-rumped Sheath-tail Bat | V | E | x | x | x |

| Scientific Name | Common Name | EPBC status | NC Act status | Presence in Buffer Area | | |
|-----------------------------------|---------------------------------------|-------------|---------------|-------------------------|-------|--------|
| | | | | 5 km | 25 km | 100 km |
| <i>Sminthopsis archeri</i> | Chestnut Dunnart | NL | NT | | | x |
| Reptiles | | | | | | |
| <i>Acanthophis antarcticus</i> | Common Death Adder | NL | V | | | x |
| <i>Crocodylus porosus</i> | Salt-water Crocodile | NL | V | | | x |
| <i>Ctenotus monticola</i> | Atherton ctenotus | NL | V | | | x |
| <i>Delma mitella</i> | | V | NT | | | x |
| <i>Denisonia maculata</i> | Ornamental Snake | V | V | | | x |
| <i>Egernia rugosa</i> | Yakka Skink | V | V | x | x | x |
| <i>Lerista ameles</i> | | NL | V | | | x |
| <i>Lerista hobsoni</i> | Hobson's fine-line slider | NL | V | | | x |
| <i>Lerista vanderduysi</i> | Leaden-bellied fine-line slider | V | V | | | x |
| <i>Lygisaurus rococo</i> | | NL | NT | | | x |
| Insects | | | | | | |
| <i>Hypochrysops apollo apollo</i> | Apollo jewel (Wet Tropics subspecies) | NL | V | | | x |

EPBC – Environment Protection and Biodiversity Conservation Act 1999

NC Act – Nature Conservation Act 1992

LC – Least Concern

CE – Critically Endangered

E – Endangered

NL – Not listed

NT – Near Threatened

V – Vulnerable

EW – Extinct in the Wild

Table 6 Fauna Species of Conservation Significance identified near the Kokomo tenement from Desktop Searches

| Scientific Name | Common Name | EPBC status | NC Act status | Presence in Buffer Area | | |
|---|----------------------------|-------------|---------------|-------------------------|-------|--------|
| | | | | 5 km | 25 km | 100 km |
| Amphibians | | | | | | |
| <i>Litoria dayi</i> | Australian Lace-lid | E | E | | | x |
| <i>Litoria nannotis</i> | Waterfall Frog | E | E | | | x |
| <i>Litoria nyakalensis</i> | Mountain Mistfrog | CE | E | | | x |
| <i>Litoria rheocola</i> | Common Mistfrog | E | E | | | x |
| <i>Litoria serrata</i> | Tapping Green Eyed Frog | NL | V | | | x |
| <i>Pseudophryne covacevichae</i> | Magnificent Brood Frog | V | V | | | x |
| <i>Taudactylus acutirostris</i> | Sharp snouted dayfrog | E | E | | | x |
| Birds | | | | | | |
| <i>Calidris canutus</i> | Red Knot | E | E | | | x |
| <i>Callidris ferruginea</i> | Curlew Sandpiper | CE | E | x | x | x |
| <i>Calidris tenuirostris</i> | Great Knot | CE | E | | | x |
| <i>Calyptorhynchus lathami</i> | Glossy Black-cockatoo | NL | V | | | x |
| <i>Casuaris casuaris johnsonii</i> | Southern Cassowary | E | E | | | x |
| <i>Charadrius leschenaultii</i> | Great Sand Plover | V | V | | | x |
| <i>Charadrius mongolus</i> | Lesser Sand Plover | E | E | | | x |
| <i>Cyclopsitta diophthalma macleayana</i> | Macleay's Fig-parrot | NL | V | | | x |
| <i>Erythrotriorchis radiatus</i> | Red Goshawk | V | E | x | x | x |
| <i>Erythrura gouldiae</i> | Gouldian Finch | E | E | | x | x |
| <i>Esacus magnirostris</i> | Beach Stone-curlew | NL | V | | | x |
| <i>Falco hypoleucos</i> | Grey Falcon | NL | V | | | x |
| <i>Fregetta grallaria grallaria</i> | White-bellied Storm-Petrel | V | LC | | | x |

| Scientific Name | Common Name | EPBC status | NC Act status | Presence in Buffer Area | | |
|---------------------------------------|--|-------------|---------------|-------------------------|-------|--------|
| | | | | 5 km | 25 km | 100 km |
| <i>Geophaps scripta scripta</i> | Squatter Pigeon (southern) | V | V | x | x | x |
| <i>Limosa lapponica bauera</i> | Western Alaskan bar-tailed godwit | V | V | | | x |
| <i>Limosa lapponica menzbieri</i> | Northern Siberian Bar-tailed Godwit | CE | E | | | x |
| <i>Neochmia ruficauda ruficauda</i> | Star Finch (eastern) | E | E | | | x |
| <i>Numenius madagascariensis</i> | Eastern Curlew | CE | E | | x | x |
| <i>Poephila cincta cincta</i> | Black-throated Finch (southern) | E | E | x | x | x |
| <i>Rostratula australis</i> | Australian Painted Snipe | E | V | x | x | x |
| <i>Turnix olivii</i> | Buff-breasted Button-quail | E | E | | | x |
| <i>Tyto novaehollandiae kimberli</i> | Masked Owl (Northern subspecies) | V | V | x | x | x |
| Mammals | | | | | | |
| <i>Bettongia tropica</i> | Northern Bettong | E | E | | | x |
| <i>Dasyurus hallucatus</i> | Northern Quoll | E | LC | x | x | x |
| <i>Dasyurus maculatus gracilis</i> | Spotted-tailed Quoll | E | E | | | x |
| <i>Dendrolagus lumholtzi</i> | Lumholtz's Tree-kangaroo | NL | NT | | | x |
| <i>Hipposideros diadema reginae</i> | Diadem Leaf-nosed Bat | NL | NT | | | x |
| <i>Hipposideros semoni</i> | Semon's Leaf-nosed Bat | E | E | | x | x |
| <i>Macroderma gigas</i> | Ghost Bat | V | E | x | x | x |
| <i>Mesembriomys gouldii rattoides</i> | Black-footed Tree-rat (north Queensland) | V | LC | x | x | x |
| <i>Petauroides volans</i> | Greater Glider | V | V | x | x | x |

B

| Scientific Name | Common Name | EPBC status | NC Act status | Presence in Buffer Area | | |
|--|-------------------------------------|-------------|---------------|-------------------------|-------|--------|
| | | | | 5 km | 25 km | 100 km |
| <i>Petaurus australis</i> unnamed subsp. | Yellow-bellied Glider (Wet Tropics) | V | V | | | x |
| <i>Petaurus gracilis</i> | Mahogany Glider | E | E | | | x |
| <i>Petrogale sharmani</i> | Sharman's Rock-wallaby | V | V | x | x | x |
| <i>Phascolarctos cinereus</i> | Koala | V | V | x | x | x |
| <i>Pteropus conspicillatus</i> | Spectacled Flying-fox | V | V | x | x | x |
| <i>Pteropus poliocephalus</i> | Grey-headed Flying-fox | V | LC | | | x |
| <i>Rhinolophus robertsi</i> | Large-eared Horseshoe Bat | V | E | x | x | x |
| <i>Saccolaimus saccolaimus nudicluniatus</i> | Bare-rumped Sheath-tail Bat | V | E | x | x | x |
| <i>Xeromys myoides</i> | Water Mouse | V | V | | | x |
| | | | | | | |
| Reptiles | | | | | | |
| <i>Acanthophis antarcticus</i> | Common Death Adder | NL | NT | | | x |
| <i>Crocodylus porosus</i> | Salt-water Crocodile | NL | V | | | x |
| <i>Ctenotus monticola</i> | Atherton ctenotus | NL | V | | | x |
| <i>Delma mitella</i> | Atherton Delma | V | NT | | | x |
| <i>Denisonia maculata</i> | Ornamental Snake | V | V | | | x |
| <i>Egernia rugosa</i> | Yakka Skink | V | V | x | x | x |
| <i>Lerista ameles</i> | | NL | V | | | x |
| <i>Lerista storri</i> | | NL | V | | | x |
| <i>Lygisaurus rococo</i> | | NL | NT | | | x |
| Insects | | | | | | |

| Scientific Name | Common Name | EPBC status | NC Act status | Presence in Buffer Area | | |
|-----------------------------------|---|-------------|---------------|-------------------------|-------|--------|
| | | | | 5 km | 25 km | 100 km |
| <i>Hypochrysops apollo apollo</i> | Apollo Jewel Butterfly (Wet Tropics subspecies) | NL | V | | | x |

EPBC – Environment Protection and Biodiversity Conservation Act 1999

NC Act – Nature Conservation Act 1992

LC – Least Concern

CE – Critically Endangered

E – Endangered

NL – Not listed

NT – Near Threatened

V – Vulnerable

EW – Extinct in the Wild

Appendix C Fauna Site Descriptions

FAUNA STUDY LOCATIONS

Fauna sampling was conducted amongst representative areas of the main vegetation types on the Project site. In total, 49 primary transects were established for terrestrial fauna monitoring. Site descriptions for each site are provided below.

Fauna Site 1 (FS1)

FS1 was located in open forest amongst thick ground vegetation. The area was highly disturbed and an abandoned dirt track was present. One pitfall line was set up, four funnel traps were placed on both ends of the pitfall trap fence, and 25 Elliot traps were baited and placed in positions identified as suitable for the likely trapping of target fauna. Traps were deployed for three consecutive nights.

Fauna Site 2 (FS2)

FS2 was located in open woodland dominated by *Eucalyptus persistens*. The site was characterised by a sparse shrub layer and a dominant grass layer. One pitfall line was set up, four funnel traps were placed on both ends of the pitfall trap fence, and 25 Elliot traps were baited and placed in positions identified as suitable for the likely trapping of target fauna. Traps were deployed for three consecutive nights.

Fauna Site 3 (FS3)

FS3 was located on a flat between artificial water bodies. The site was characterised by rocky ground. One pitfall line was set up, four funnel traps were placed on both ends of the pitfall trap fence, and 25 Elliot traps were baited and placed in positions identified as suitable for the likely trapping of target fauna. Traps were deployed for three consecutive nights.

Fauna Site 4 (FS4)

FS4 was located in a small clearing amongst woodland dominated by Narrow-leaved Ironbark (*Eucalyptus crebra*), bloodwoods (*Corymbia* spp.) and Yellow Wattle (*Acacia flavescens*). The groundcover was dominated by Kangaroo Grass (*Themeda triandra*). One pitfall line was set up, four funnel traps were placed on both ends of the pitfall trap fence, and 25 Elliot traps were baited and placed in positions identified as suitable for the likely trapping of target fauna. Traps were deployed for three consecutive nights.

Fauna Site 5 (FS5)

FS5 was located on the edge of a hill overlooking a valley. The site was characterised by rocky ground. One pitfall line was set up, four funnel traps were placed on both ends of the pitfall trap fence, and 10 Elliot traps were baited and placed in positions identified as suitable for the likely trapping of target fauna. Traps were deployed for three consecutive nights.

Fauna Site 6 (FS6)

FS6 was located in bloodwood/ironbark woodland on an eastern facing slope. Several small drainage lines were present. One pitfall line was set up, four funnel traps were placed on both ends of the pitfall trap fence, and 20 Elliot traps and four cages were baited and placed in positions identified as suitable for the likely trapping of target fauna. Traps were deployed for three consecutive nights.



Fauna Site 7 (FS7)

FS7 was located in flat grassland with scattered bushes adjacent to an artificial water body. One pitfall line was set up, four funnel traps were placed on both ends of the pitfall trap fence, and 20 Elliot traps and four cages were baited and placed in positions identified as suitable for the likely trapping of target fauna. Traps were deployed for three consecutive nights.

Fauna Site 8 (FS8)

FS8 was located on a sandstone hilltop. The plateau was next to a rocky slope. The site was dominated by *Eucalyptus persistens*, Lancewood (*Acacia shirleyi*) and characterised by a significant amount of fallen timber. One pitfall line was set up; four funnel traps were placed on both ends of the pitfall trap fence, and 20 Elliot traps and four cages were baited and placed in positions identified as suitable for the likely trapping of target fauna. Traps were deployed for three consecutive nights.

Fauna Site 9 (FS9)

FS9 was located on a flat hilltop in woodland dominated by Narrow-leaved Ironbark (*Eucalyptus crebra*), bloodwoods and an open shrub layer mainly consisting of *Grevillea* species. Fallen timber and tracks were present on the site. One pitfall line was set up, four funnel traps were placed on both ends of the pitfall trap fence, and 20 Elliot traps and four cages were baited and placed in positions identified as suitable for the likely trapping of target fauna. Traps were deployed for three consecutive nights.



Fauna Site 10 (FS10)

FS10 was located on a hilltop plateau edge dominated by Eucalyptus, Acacia and Grevillea shrubs. The grassy understorey was disrupted by frequent rocks. One pitfall line was set up, four funnel traps were placed on both ends of the pitfall trap fence, and 20 Elliot traps and four cages were baited and placed in positions identified as suitable for the likely trapping of target fauna. Traps were deployed for three consecutive nights.

Fauna Site 11 (FS11)

This trap site was located on a hilltop in woodland dominated by Narrow-leaved Ironbark (*Eucalyptus crebra*) with a shrub layer dominated by Yellow Wattle (*Acacia flavescens*). Groundcover consisted of leaf litter, grass and bare soil. Some grazing disturbance and road works associated with mineral exploration were located nearby. One pitfall line and four funnel traps were deployed in both the wet season and dry season. Three cage traps and 15 Elliot traps were set in the dry season and two cage traps and 20 Elliot traps were set in the wet season. Traps were deployed for four consecutive nights. An Anabat recorder was also deployed at this site in the dry season.



Fauna Site 12 (FS12)

This transect was located in an alluvial depression with brown silty clay substrate. Poplar Gum (*Eucalyptus platyphylla*) was the dominant tree species and a tall grass layer was present. Grass accounted for approximately 50% of total groundcover, with leaf litter and bare soil also present. One pitfall line and four funnel traps were deployed in both the wet season and dry season. Three cage traps and 15 Elliot traps were set in the dry season and two cage traps and 20 Elliot traps were set in the wet season. Traps were deployed for four consecutive nights.



Fauna Site 13 (FS13)

This transect was located in a rocky gully with an open overstorey dominated by *Eucalyptus persistens*. Groundcover was mostly rocky, with small amounts of grass, leaf litter and bare soil. One pitfall line was set up in both the wet season and dry season. Three cage traps, four funnel traps and 15 Elliot traps were set in the dry season. Two cage traps, two funnel traps and 20 Elliot traps were set in the wet season. Traps were deployed for four consecutive nights. An Anabat recorder was also deployed at this site in the dry season.



Fauna Site 14 (FS14)

This transect was located on a flat plain between a woodland dominated by Narrow-leaved Ironbark (*Eucalyptus crebra*) on low hills and woodland on alluvial soils dominated by Poplar Gum (*Eucalyptus platyphylla*). Groundcover comprised of grasses, leaf litter and bare ground. One pitfall line and four funnel traps were deployed in both the wet season and dry season. Four cage traps and 15 Elliot traps were set in the dry season and two cage traps and 20 Elliot traps were set in the wet season. Traps were deployed for four consecutive nights. An Anabat recorder was also deployed at this site in the wet season.



Fauna Site 15 (FS15)

This transect was located on an open grassy woodland dominated by Narrow-leaved Ironbark (*Eucalyptus crebra*) and Red Bloodwood (*Corymbia erythrophloia*) with no significant shrub layer. It was located on a valley floor with black loamy soils between two steep sided hills. Grasses accounted for virtually 100% of groundcover around the transect. This transect was surveyed in the wet season only. One pitfall line, one funnel trap, two cage traps, 20 Elliot traps and an Anabat recorder were deployed at FT15. Traps were deployed for four consecutive nights.



Fauna Site 16 (FS16)

This transect was located in a sandy drainage line dominated by *Melaleuca bracteata*. One pitfall trap line, 20 Elliot traps and four cage traps were deployed at this site. Traps were deployed for four consecutive nights.

Fauna Site 17 (FS17)

Transect 17 was located on a sandplain with open woodland vegetation. The canopy consisted of Narrow-leaved Ironbark (*Eucalyptus crebra*) with an understorey of *Xanthorrea johnsonii* and a healthy groundcover layer. The site had been burnt in the last year. One pitfall trap line, 20 Elliot traps, one Anabat detector and four cage traps were deployed at this site. Traps were deployed for four consecutive nights.



Fauna Site 18 (FS18)

FS18 was set amongst Narrow-leaved Ironbarks (*Eucalyptus crebra*) on a rolling hill with a dense grass layer. One pitfall trap line, 20 Elliot traps, one ANABAT detector and four cage traps were deployed at this site. Traps were deployed for four consecutive nights.

Fauna Site 19 (FS19)

This transect was placed in *Eucalyptus leptophleba* woodland with moderate shrub cover and a grassy understorey. One pitfall trap line, 20 Elliot traps, one Anabat detector and four cage traps were deployed at this site. Traps were deployed for four consecutive nights.

Fauna Site 20 (FS20)

Transect FS20 was located on a rocky outcrop along a hillslope. Vegetation at this site was dominated by Narrow-leaved Ironbarks (*Eucalyptus crebra*). One Anabat, four cage traps and 20 Elliot traps were set at this site. Pitfall trapping was not used at this site due to the rocky substrate. Traps were deployed for four consecutive nights.

Fauna Site 21 (FS21)

Site FS21 was located in *Eucalyptus crebra* and *Corymbia* spp open woodland on Serpentine. A pitfall line, 25 Elliot traps and six funnel traps were deployed at this site. Traps were deployed for three consecutive nights.

Fauna Site 22 (FS22)

Site FS22 was located in *Eucalyptus crebra* and *Corymbia* spp open woodland on Serpentine. 25 Elliots and a cage trap were deployed at this site. Traps were deployed for three consecutive nights.

Fauna Site 23 (FS23)

Site FS23 was located in *Eucalyptus crebra* and *Corymbia* spp open woodland on Serpentine. 25 Elliots and a cage trap were deployed at this site. Traps were deployed for three consecutive nights.

Fauna Site 24 (FS24)

Site FS24 was located in a Lancewood woodland. A pitfall line, 25 Elliot traps and six funnel traps were deployed at this site. Traps were deployed for three consecutive nights.

Fauna Site 25 (FS25)

This site was located at a creek in the west of Greenvale tenement. 25 Elliots and a cage trap were deployed at this site. Traps were deployed for three consecutive nights.

Fauna Site 26 (FS26)

Site FS26 was located in *Eucalyptus crebra* woodland. A pitfall line, 25 Elliot traps, one cage trap and six funnel traps were deployed at this site. Traps were deployed for three consecutive nights.

Fauna Site 27 (FS27)

This site was located in *Eucalyptus crebra* woodland, near a patch of *Eucalyptus persistens*. A pitfall line, 25 Elliot traps, one camera trap and six funnel traps were deployed at this site. Traps were deployed for three consecutive nights.

Fauna Site 28 (FS28)

FS28 was set up in a recently burnt tall open Narrow-leaved Ironbark (*Eucalyptus crebra*) woodland with a grassy understorey. A T-shaped pitfall line, with one 15 m fence running perpendicular to the main 30 m fence, was set up at this site. Two funnel traps were placed at each fence end, giving a total of six funnel traps at the site. 25 Elliot traps, one cage trap and one Anabat were also deployed at this site. Traps were deployed for three consecutive nights.

Fauna Site 29 (FS29)

This transect was located on a floodplain vegetated with Poplar Gum (*Eucalyptus platyphylla*) near a scree slope. A pitfall line, six funnel traps, 25 Elliot traps and one cage trap were deployed at this site. Traps were deployed for three consecutive nights.

Fauna Site 30 (FS30)

This site was located in a recently burnt Corymbia and Narrow-leaved Ironbark (*Eucalyptus crebra*) woodland with a grassy understorey. A targeted reptile search was conducted at this site. 25 Elliot traps and four funnel traps were deployed at this site for three consecutive nights.

Fauna Site 31 (FS31)

This site was located in a recently burnt and grazed Narrow-leaved Ironbark (*Eucalyptus crebra*) woodland with a grassy understorey on sandy soil. The site was near a small creek vegetated with Black Tea Tree (*Melaleuca bracteata*). A T-shaped pitfall line, four funnel traps, 25 Elliot traps and one cage trap were deployed at this site. Traps were deployed for three consecutive nights.

Fauna Site 32 (FS32)

Transect FS32 was located in open Eucalyptus woodland on a rocky slope near a mesa. This site was heavily disturbed by cattle grazing and a recent fire. Twenty-five Elliot traps and six funnel traps were deployed for three consecutive nights. A targeted reptile search was also conducted at this site, as it provided good reptile habitat in the form of fallen timber.

Fauna Site 33 (FS33)

This fauna site was located adjacent to a creek vegetated with Black Tea Tree (*Melaleuca bracteata*) and Northern Swamp Box (*Lophostemon grandiflorus*) with a grassy understorey. Most of the site had been recently burnt. Twenty-five Elliot traps and six funnel traps were deployed for three consecutive nights.

Fauna Site 34 (FS34)

Fauna site FS34 was located in *Eucalyptus platyphylla* open woodland. A T-shaped pitfall line, four pitfall traps, six funnel traps, 20 Elliot traps, one camera trap and one bat recording device were deployed at this site. Traps were deployed for four consecutive nights and the Anabat for three consecutive nights. Reptile searches, bird surveys, spotlight and call playback were conducted on this fauna site.



Fauna Site 35 (FS35)

Fauna site FS35 was located on a *Eucalyptus crebra* dominated woodland on rocky slopes. Twelve funnel traps, 20 Elliot traps and one camera trap were deployed for four consecutive nights. Reptile searches, bird surveys, spotlight and call playback were conducted on this fauna site.



Fauna Site 36 (FS36)

FS36 was located in *Eucalyptus platyphylla* woodland in alluvial flats. A T-shaped pitfall line, four pitfall traps, six funnel traps, 20 Elliot traps, one camera trap and one bat recording device were deployed at this site. Traps were deployed for four consecutive nights and the Anabat for three consecutive nights. Reptile searches, bird surveys, spotlight and call playback were conducted on this fauna site.



Fauna Site 37 (FS37)

FS37 was located in Marsh wetland with *Eucalyptus* spp. A T-shaped pitfall line, four pitfall traps, six funnel traps, 20 Elliot traps and one camera trap were deployed at this site. Traps were deployed for four consecutive nights. Reptile searches, bird surveys, spotlight and call playback were conducted on this fauna site.



Fauna Site 38 (FS38)

FS38 was located in semi-deciduous vine thicket on metamorphic soils. A T-shaped pitfall line, three pitfall traps, six funnel traps, 19 Elliot traps, one camera trap and one bat recording device were deployed at this site. Traps were deployed for four consecutive nights and the Anabat for three consecutive nights. Reptile searches, bird surveys, spotlight and call playback were conducted on this fauna site.



Fauna Site 39 (FS39)

This fauna site was located in *Eucalyptus acmenoides*, *Eucalyptus cloeziana*, *Eucalyptus crebra* woodland on rocky hills. Nine funnel traps, 19 Elliot traps and one camera trap were deployed at this site. Traps were deployed for four consecutive nights. Reptile searches, bird surveys, spotlight and call playback were conducted on this fauna site.



Fauna Site 40 (FS40)

FS 40 was located in open woodland on a rocky hill with *Acacia flavescens* as dominant tree species. A T-shaped pitfall line, four pitfall traps, six funnel traps, 20 Elliot traps, one camera trap and one bat recording device were deployed at this site. Traps were deployed for four consecutive nights and the Anabat for three consecutive nights. Reptile searches, bird surveys, spotlight and call playback were conducted on this fauna site.



Fauna Site 41 (FS41)

This fauna site was located in Lancewood woodland at the base of a rocky hill. A T-shaped pitfall line, four pitfall traps, six funnel traps, 20 Elliot traps, one camera trap and one bat recording device were deployed at this site. Traps were deployed for four consecutive nights and the Anabat for three consecutive nights. Reptile searches, bird surveys, spotlight and call playback were conducted on this fauna site.



Fauna Site 42 (FS42)

FS42 was located on a hilltop on *Eucalyptus melanophloia* woodland. A T-shaped pitfall line, four pitfall traps, six funnel traps, 20 Elliot traps, one camera trap and one bat recording device were deployed at this site. Traps were deployed for four consecutive nights and the Anabat for three consecutive nights. Reptile searches, bird surveys, spotlight and call playback were conducted on this fauna site.



Fauna Site 43 (FS43)

FS43 was located on a floodplain, near the edge of a creek ecosystem into open woodland. *Eucalyptus crebra* was the tree layer dominant species, with *Corymbia dallachiana* and *Eucalyptus camaldulensis* as associated species. A T-shaped pitfall line, four pitfall traps, six funnel traps, 20 Elliot traps, one camera trap and one bat recording device were deployed at this site. Traps were deployed for four consecutive nights and the Anabat for three consecutive nights. Reptile searches, bird surveys, spotlight and call playback were conducted on this fauna site.



Fauna Site 44 (FS44)

FS44 was located in grassland, near the edge with *Eucalyptus crebra* open woodland. A T-shaped pitfall line, four pitfall traps, six funnel traps, 20 Elliot traps and one camera trap were deployed at this site. Traps were deployed for four consecutive nights. Reptile searches, bird surveys, spotlight and call playback were conducted on this fauna site.



Fauna Site 45 (FS45)

This fauna site was located in grassland of *Ophiurus exaltatus* and *Bothriochloa pertusa*. A T-shaped pitfall line, four pitfall traps, six funnel traps, 20 Elliot traps, one camera trap and one bat recording device were deployed at this site. Traps were deployed for four consecutive nights and the Anabat for three consecutive nights. Reptile searches, bird surveys, spotlight and call playback were conducted on this fauna site.



Fauna Site 46 (FS46)

FS46 was located in *Eucalyptus crebra* and *Corymbia* spp open woodland at the bottom of a rocky hill. A T-shaped pitfall line, four pitfall traps, six funnel traps, 20 Elliot traps, one camera trap and one bat recording device were deployed at this site. Traps were deployed for four consecutive nights and the Anabat for three consecutive nights. Reptile searches, bird surveys, spotlight and call playback were conducted on this fauna site.



Fauna Site 47 (FS47)

FS47 was located in Lancewood woodland on hill slope. A T-shaped pitfall line, four pitfall traps, six funnel traps, 20 Elliot traps, one camera trap and one bat recording device were deployed at this site. Traps were deployed for four consecutive nights and the Anabat for three consecutive nights. Reptile searches, bird surveys, spotlight and call playback were conducted on this fauna site.



Fauna Site 48 (FS48)

FS48 was located in *Eucalyptus crebra* and *Corymbia erythrophloia* woodland on a hill slope. A T-shaped pitfall line, four pitfall traps, six funnel traps, 20 Elliot traps, one camera trap and one bat recording device were deployed at this site. Traps were deployed for four consecutive nights and the Anabat for three consecutive nights. Reptile searches, bird surveys, spotlight and call playback were conducted on this fauna site.



Fauna Site 49 (FS49)

FS49 was located in Lancewood woodland on a hilltop. A T-shaped pitfall line, four pitfall traps, six funnel traps, 20 Elliot traps, one camera trap and one bat recording device were deployed at this site. Traps were deployed for four consecutive nights and the Anabat for three consecutive nights. Reptile searches, bird surveys, spotlight and call playback were conducted on this fauna site.



Appendix D Flora Species Inventory

| Family | Species Name | Common Name | EPBC Act Status | NC Act Status |
|----------------|---|--------------------------|-----------------|---------------|
| Acanthaceae | <i>Brunoniella acaulis</i> | | Not Listed | Least Concern |
| Acanthaceae | <i>Brunoniella australis</i> | Blue Trumpet | Not Listed | Least Concern |
| Acanthaceae | <i>Pseuderanthemum variabile</i> | Pastel Flower | Not Listed | Least Concern |
| Acanthaceae | <i>Rostellularia adscendens</i> | Pinktongues | Not Listed | Least Concern |
| Adiantaceae | <i>Cheilanthes distans</i> | Bristly Cloak Fern | Not Listed | Least Concern |
| Adiantaceae | <i>Cheilanthes sieberi</i> | Rock Fern | Not Listed | Least Concern |
| Amaranthaceae | <i>Achyranthes aspera</i> | Chaff Flower | Not Listed | Least Concern |
| Amaranthaceae | <i>Alternanthera nana</i> | Hairy Joyweed | Not Listed | Least Concern |
| Amaranthaceae | <i>Alternanthera ficoidea*</i> | Joseph's coat | Not Listed | Not Listed |
| Amaranthaceae | <i>Alternanthera nodiflora</i> | Joyweed | Not Listed | Least Concern |
| Amaranthaceae | <i>Alternanthera sp</i> | | | |
| Amaranthaceae | <i>Enchylaena tomentosa</i> | Ruby Saltbush | Not Listed | Least Concern |
| Amaranthaceae | <i>Gomphrena celosioides*</i> | Gomphrena Weed | Not Listed | Not Listed |
| Amaranthaceae | <i>Salsola kali</i> | Prickly Saltwort | Not Listed | Not Listed |
| Apocynaceae | <i>Carissa spinarum</i> | Currant Bush | Not Listed | Least Concern |
| Apocynaceae | <i>Marsdenia viridiflora subsp. viridiflora</i> | | Not Listed | Least Concern |
| Apocynaceae | <i>Parsonsia lanceolata</i> | Northern Silkpod | Not Listed | Least Concern |
| Apocynaceae | <i>Parsonsia straminea</i> | Monkey Rope | Not Listed | Least Concern |
| Apocynaceae | <i>Parsonsia sp.</i> | | | |
| Apocynaceae | <i>Secamone elliptica</i> | Corky Milk Vine | Not Listed | Least Concern |
| Araceae | <i>Monstera deliciosa*</i> | Fruit Salad Plant | Not Listed | Not Listed |
| Asclepiadaceae | <i>Calotropis procera*</i> | Calotrope | Not Listed | Not Listed |
| Asteraceae | <i>Asteraceae sp</i> | | | |
| Asteraceae | <i>Acanthospermum hispidum*</i> | Star Burr | Not Listed | Not Listed |
| Asteraceae | <i>Bidens pilosa*</i> | Cobbler's Pegs | Not Listed | Not Listed |
| Asteraceae | <i>Blumea diffusa</i> | | Not Listed | Least Concern |
| Asteraceae | <i>Calyptocarpus vialis*</i> | Creeping Cinderella Weed | Not Listed | Not Listed |
| Asteraceae | <i>Centipeda nidiformis</i> | Cotton Sneezeweed | Not Listed | Least Concern |
| Asteraceae | <i>Centipeda sp.</i> | | | |
| Asteraceae | <i>Chrysocephalum apiculatum</i> | Yellow Buttons | Not Listed | Least Concern |
| Asteraceae | <i>Cirsium vulgare*</i> | Spear Thistle | Not Listed | Not Listed |
| Asteraceae | <i>Coronidium rupicola</i> | | Not Listed | Least Concern |
| Asteraceae | <i>Cyanthillium cinereum</i> | Vernonia | Not Listed | Least Concern |
| Asteraceae | <i>Emilia sonchifolia var. sonchifolia*</i> | | Not Listed | Not Listed |
| Asteraceae | <i>Epaltes australis</i> | Spreading Nutheads | Not Listed | Not Listed |
| Asteraceae | <i>Lagenophora gracilis</i> | | Not Listed | Least Concern |
| Asteraceae | <i>Olearia arguta var. lanata</i> | | Not Listed | Least Concern |
| Asteraceae | <i>Parthenium hysterophorus*</i> | Parthenium Weed | WoNS | Class 2 |
| Asteraceae | <i>Peripleura bicolor</i> | | Not Listed | Least Concern |
| Asteraceae | <i>Peripleura hispidula var. hispidula</i> | | Not Listed | Least Concern |

| Family | Species Name | Common Name | EPBC Act Status | NC Act Status |
|-----------------|--|------------------------|-----------------|---------------|
| Asteraceae | <i>Praxelis clematidea*</i> | Praxelis | Not Listed | Not Listed |
| Asteraceae | <i>Pterocaulon redolens</i> | | Not Listed | Least Concern |
| Asteraceae | <i>Pterocaulon sphacelatum</i> | Applebush | Not Listed | Least concern |
| Asteraceae | <i>Sphaeranthus sp.</i> | | | |
| Asteraceae | <i>Tridax procumbens*</i> | Tridax Daisy | Not Listed | Not Listed |
| Asteraceae | <i>Wedelia spilanthoides</i> | | Not Listed | Not Listed |
| Asteraceae | <i>Xanthium occidentale*</i> | Noogoora Burr | Not Listed | Not Listed |
| Bignoniaceae | <i>Dolichandrone heterophylla</i> | Lemonwood | Not Listed | Least Concern |
| Boraginaceae | <i>Heliotropium ovalifolium</i> | Grey-leaf Heliotropium | Not Listed | Least Concern |
| Boraginaceae | <i>Ehretia saligna var. membranifolia</i> | | Not Listed | Least Concern |
| Boraginaceae | <i>Trichodesma zeylanicum</i> | Camel Bush | Not Listed | Least Concern |
| Byttneriaceae | <i>Keraudrenia collina</i> | | Not Listed | Not Listed |
| Byttneriaceae | <i>Keraudrenia hookeriana</i> | | Not Listed | Not Listed |
| Byttneriaceae | <i>Waltheria indica</i> | | Not Listed | Least Concern |
| Caesalpiniaceae | <i>Bauhinia cunninghamii</i> | Bauhinia | Not Listed | Least Concern |
| Caesalpiniaceae | <i>Cassia brewsteri</i> | Leichhardt Bean | Not Listed | Least Concern |
| Caesalpiniaceae | <i>Chamaecrista absus var. absus</i> | | Not Listed | Least Concern |
| Caesalpiniaceae | <i>Chamaecrista concinna</i> | | Not Listed | Least Concern |
| Caesalpiniaceae | <i>Chamaecrista mimosoides</i> | Dwarf Cassia | Not Listed | Least Concern |
| Caesalpiniaceae | <i>Chamaecrista nomame</i> | | Not Listed | Least Concern |
| Caesalpiniaceae | <i>Chamaecrista rotundifolia*</i> | Round-leaf Cassia | Not Listed | Not Listed |
| Caesalpiniaceae | <i>Senna aciphylla</i> | Australian Senna | Not Listed | Least Concern |
| Caesalpiniaceae | <i>Senna artemisioides subsp. coriacea</i> | Desert Cassia | Not Listed | Least Concern |
| Caesalpiniaceae | <i>Senna barclayana</i> | Smooth Senna | Not Listed | Least Concern |
| Caesalpiniaceae | <i>Senna coronilloides</i> | Brigalow Senna | Not Listed | Least Concern |
| Caesalpiniaceae | <i>Senna sophera var. sophera</i> | Cassia | Not Listed | Least Concern |
| Cannabaceae | <i>Trema tomentosa var. aspera</i> | Poison Peach | Not Listed | Least Concern |
| Capparaceae | <i>Capparis canescens</i> | Wait-a-while | Not Listed | Least Concern |
| Capparaceae | <i>Capparis mitchellii</i> | Wild Orange | Not Listed | Least Concern |
| Caryophyllaceae | <i>Polycarpaea spirostylis</i> | | Not Listed | Least Concern |
| Casuarinaceae | <i>Allocasuarina inophloia</i> | Stringybark She-Oak | Not Listed | Least Concern |
| Casuarinaceae | <i>Casuarina cunninghamiana</i> | River She-Oak | Not Listed | Least Concern |
| Casuarinaceae | <i>Casuarina sp</i> | She-Oak | | |
| Celastraceae | <i>Denhamia cunninghamii</i> | | Not Listed | Least Concern |
| Celastraceae | <i>Denhamia oleaster</i> | | Not Listed | Least Concern |
| Celastraceae | <i>Maytenus cunninghamii</i> | Yellowberry Bush | Not Listed | Not Listed |
| Celastraceae | <i>Maytenus disperma</i> | Orange Boxwood | Not Listed | Not Listed |
| Combretaceae | <i>Terminalia oblongata var. oblongata</i> | Yellowwood | Not Listed | Least Concern |
| Combretaceae | <i>Terminalia platyphylla</i> | | Not Listed | Least Concern |
| Commelinaceae | <i>Commelina agrostophylla</i> | | Not Listed | Least Concern |

| Family | Species Name | Common Name | EPBC Act Status | NC Act Status |
|-----------------|---|-------------------------|-----------------|---------------|
| Commelinaceae | <i>Commelina ensifolia</i> | Scurvy Grass | Not Listed | Least Concern |
| Convolvulaceae | <i>Ipomoea plebeia</i> | Bellvine | Not Listed | Least Concern |
| Convolvulaceae | <i>Ipomoea polymorpha</i> | | Not Listed | Least Concern |
| Convolvulaceae | <i>Jacquemontia paniculata</i> | | Not Listed | Least Concern |
| Convolvulaceae | <i>Jacquemontia paniculata var. tomentosa</i> | | Not Listed | Least Concern |
| Convolvulaceae | <i>Polymeria ambigua</i> | | Not Listed | Least Concern |
| Convolvulaceae | <i>Evolvulus alsinoides</i> | Tropical Speedwell | Not Listed | Least Concern |
| Cucurbitaceae | <i>Cucumis anguria*</i> | West Indian Gherkin | Not Listed | Not Listed |
| Cucurbitaceae | <i>Cucumis maderaspatanus</i> | | Not Listed | Not Listed |
| Cyperaceae | <i>Abildgaardia vaginata</i> | | Not Listed | Least Concern |
| Cyperaceae | <i>Bulbostylis barbata</i> | Dainty Sedge | Not Listed | Least Concern |
| Cyperaceae | <i>Cyperus brevifolius*</i> | Mullumbimby Couch | Not Listed | Not Listed |
| Cyperaceae | <i>Cyperus difformis</i> | Rice Sedge | Not Listed | Least Concern |
| Cyperaceae | <i>Cyperus exaltatus</i> | Giant Sedge | Not Listed | Least Concern |
| Cyperaceae | <i>Cyperus gracilis</i> | Slender Flat Sedge | Not Listed | Least Concern |
| Cyperaceae | <i>Cyperus polystachyos</i> | | Not Listed | Least Concern |
| Cyperaceae | <i>Cyperus sp.</i> | | | |
| Cyperaceae | <i>Eleocharis cylindrostachys</i> | | Not Listed | Least Concern |
| Cyperaceae | <i>Eleocharis sphacelata</i> | Tall Spikebush | Not Listed | Least Concern |
| Cyperaceae | <i>Fimbristylis dichotoma</i> | Common Fringe Rush | Not Listed | Least Concern |
| Cyperaceae | <i>Fimbristylis littoralis</i> | | Not Listed | Least Concern |
| Cyperaceae | <i>Fimbristylis squarrolosa</i> | Overlapping Fringe Rush | Not Listed | Least Concern |
| Cyperaceae | <i>Fimbristylis tetragona</i> | | Not Listed | Least Concern |
| Cyperaceae | <i>Gahnia aspera</i> | Rough Saw-sedge | Not Listed | Least Concern |
| Cyperaceae | <i>Schoenoplectus praelongatus</i> | | Not Listed | Not Listed |
| Cyperaceae | <i>Scleria brownii</i> | | Not Listed | Least Concern |
| Cyperaceae | <i>Scleria sp.</i> | | | |
| Cyperaceae | <i>Scleria sphacelata</i> | | Not Listed | Least Concern |
| Ebenaceae | <i>Diospyros humilis</i> | Small-leaved Ebony | Not Listed | Least Concern |
| Erythroxylaceae | <i>Erythroxylum australe</i> | Cocaine Tree | Not Listed | Least Concern |
| Euphorbiaceae | <i>Croton phebalioides</i> | Narrow-leaved Croton | Not Listed | Least Concern |
| Euphorbiaceae | <i>Euphorbia drummondii</i> | Caustic Weed | Not Listed | Least Concern |
| Euphorbiaceae | <i>Euphorbia hirta*</i> | Asthma Plant | Not Listed | Not Listed |
| Euphorbiaceae | <i>Euphorbia tannensis</i> | Desert Spurge | Not Listed | Least Concern |
| Euphorbiaceae | <i>Euphorbia tannensis subsp. eremophila</i> | Desert Spurge | Not Listed | Least Concern |
| Euphorbiaceae | <i>Flueggea virosa subsp. melanthesoides</i> | White Currant | Not Listed | Least Concern |
| Euphorbiaceae | <i>Phyllanthus maderaspatensis</i> | Spurge | Not Listed | Least Concern |
| Fabaceae | <i>Aeschynomene indica</i> | Budda Pea | Not Listed | Least Concern |
| Fabaceae | <i>Aeschynomene micranthos</i> | | Not Listed | Not Listed |
| Fabaceae | <i>Alysicarpus vaginalis*</i> | | Not Listed | Not Listed |

| Family | Species Name | Common Name | EPBC Act Status | NC Act Status |
|----------|---|-----------------------|-----------------|---------------|
| Fabaceae | <i>Cajanus acutifolius</i> | | Not Listed | Least Concern |
| Fabaceae | <i>Cajanus marmoratus</i> | | Not Listed | Least Concern |
| Fabaceae | <i>Cajanus reticulatus</i> var. <i>reticulatus</i> | | Not Listed | Least Concern |
| Fabaceae | <i>Cajanus scarabaeoides</i> | | Not Listed | Least Concern |
| Fabaceae | <i>Crotalaria aridicola</i> | | Not Listed | Least Concern |
| Fabaceae | <i>Crotalaria brevis</i> | | Not Listed | Least Concern |
| Fabaceae | <i>Crotalaria goreensis</i> * | Gambia Pea | Not Listed | Not Listed |
| Fabaceae | <i>Crotalaria lanceolata</i> subsp. <i>lanceolata</i> * | | Not Listed | Not Listed |
| Fabaceae | <i>Crotalaria medicaginea</i> | Trefoil Rattlepod | Not Listed | Least Concern |
| Fabaceae | <i>Crotalaria montana</i> | | Not Listed | Least Concern |
| Fabaceae | <i>Crotalaria montana</i> var. <i>angustifolia</i> | | Not Listed | Least Concern |
| Fabaceae | <i>Crotalaria novae-hollandiae</i> | | Not Listed | Least Concern |
| Fabaceae | <i>Crotalaria</i> sp. | | | |
| Fabaceae | <i>Crotalaria verrucosa</i> | Blue Rattlepod | Not Listed | Least Concern |
| Fabaceae | <i>Daviesia flava</i> | | Not Listed | Least Concern |
| Fabaceae | <i>Desmodium brachypodum</i> | Large Tick Trefoil | Not Listed | Least Concern |
| Fabaceae | <i>Desmodium gangeticum</i> | | Not Listed | Least Concern |
| Fabaceae | <i>Desmodium rhytidophyllum</i> | Hairy Trefoil | Not Listed | Least Concern |
| Fabaceae | <i>Erythrophleum chlorostachys</i> | Cooktown Ironwood | Not Listed | Least Concern |
| Fabaceae | <i>Flemingia parviflora</i> | Flemingia | Not Listed | Least Concern |
| Fabaceae | <i>Galactia tenuiflora</i> | | Not Listed | Least Concern |
| Fabaceae | <i>Gastrolobium grandiflorum</i> | Heartleaf Poison Bush | Not Listed | Least Concern |
| Fabaceae | <i>Glycine falcata</i> | | Not Listed | Least Concern |
| Fabaceae | <i>Glycine</i> sp. | | | |
| Fabaceae | <i>Glycine tabacina</i> | | Not Listed | Least Concern |
| Fabaceae | <i>Glycine tomentella</i> | Woolly Glycine | Not Listed | Least Concern |
| Fabaceae | <i>Gompholobium nitidum</i> | | Not Listed | Least Concern |
| Fabaceae | <i>Hovea lanceolata</i> | | Not Listed | Least Concern |
| Fabaceae | <i>Hovea longipes</i> | Brush Hovea | Not Listed | Least Concern |
| Fabaceae | <i>Indigofera linifolia</i> | | Not Listed | Least Concern |
| Fabaceae | <i>Indigofera linnaei</i> | Round-pod Indigo | Not Listed | Least Concern |
| Fabaceae | <i>Indigofera pratensis</i> | Forest Indigo | Not Listed | Least Concern |
| Fabaceae | <i>Indigofera trita</i> subsp. <i>trita</i> | | Not Listed | Least Concern |
| Fabaceae | <i>Macroptilium lathyroides</i> * | | Not Listed | Not Listed |
| Fabaceae | <i>Pycnospora lutescens</i> | Pycnospora | Not Listed | Least Concern |
| Fabaceae | <i>Rhynchosia minima</i> | Rhynchosia | Not Listed | Least Concern |
| Fabaceae | <i>Sesbania cannabina</i> | Sesbania Pea | Not Listed | Least Concern |
| Fabaceae | <i>Stylosanthes scabra</i> * | Shrubby Stylo | Not Listed | Not Listed |
| Fabaceae | <i>Tephrosia astragaloides</i> | | Not Listed | Least Concern |
| Fabaceae | <i>Tephrosia filipes</i> subsp. <i>filipes</i> | | Not Listed | Least Concern |

| Family | Species Name | Common Name | EPBC Act Status | NC Act Status |
|-------------------|---|-----------------------|-----------------|---------------|
| Fabaceae | <i>Tephrosia filipes</i> var. <i>latifolia</i> | Tephrosia | Not Listed | Least Concern |
| Fabaceae | <i>Tephrosia juncea</i> | Tephrosia | Not Listed | Least Concern |
| Fabaceae | <i>Tephrosia</i> sp. | | | |
| Fabaceae | <i>Uraria lagopodioides</i> | | Not Listed | Least Concern |
| Fabaceae | <i>Vigna lanceolata</i> | Vigna | Not Listed | Least Concern |
| Fabaceae | <i>Vigna radiata</i> var. <i>sublobata</i> | Wild Mung Bean | Not Listed | Least Concern |
| Fabaceae | <i>Vigna vexillata</i> var. <i>youngiana</i> | Wild Cow Pea | Not Listed | Least Concern |
| Fabaceae | <i>Zornia dyctiocarpa</i> | | Not Listed | Least Concern |
| Fabaceae | <i>Zornia dyctiocarpa</i> var. <i>dyctiocarpa</i> | | Not Listed | Least Concern |
| Fabaceae | <i>Zornia muriculata</i> | | Not Listed | Least Concern |
| Fabaceae | <i>Zornia prostrata</i> | Zornia Vine | Not Listed | Least Concern |
| Fabaceae | <i>Zornia stirlingii</i> | | Not Listed | Least Concern |
| Flacourtiaceae | <i>Homalium brachybotrys</i> | Boxwood | Not Listed | Least Concern |
| Gentianaceae | <i>Schenkia australis</i> | Native Centuary | Not Listed | Least Concern |
| Goodeniaceae | <i>Goodenia armitiana</i> | | Not Listed | Least Concern |
| Haloragaceae | <i>Gonocarpus acanthocarpus</i> | | Not Listed | Least Concern |
| Hemerocallidaceae | <i>Dianella caerulea</i> | Blue Flaxlilly | Not Listed | Least Concern |
| Hemerocallidaceae | <i>Dianella longifolia</i> | Blue-flax Lily | Not Listed | Least Concern |
| Hemerocallidaceae | <i>Dianella nervosa</i> | | Not Listed | Least Concern |
| Hemerocallidaceae | <i>Dianella</i> sp. | | | |
| Juncaceae | <i>Juncus</i> sp | | | |
| Lamiaceae | <i>Anisomeles malabarica</i> | Malabar Catmint | Not Listed | Least Concern |
| Lamiaceae | <i>Clerodendrum floribundum</i> | Lolly Bush | Not Listed | Least Concern |
| Lamiaceae | <i>Plectranthus</i> sp | | | |
| Lamiaceae | <i>Premna acuminata</i> | | Not Listed | Least Concern |
| Lauraceae | <i>Cassytha filiformis</i> | Dodder Laurel | Not Listed | Least Concern |
| Laxmanniaceae | <i>Lomandra laxa</i> | Delicate Matrush | Not Listed | Least Concern |
| Laxmanniaceae | <i>Lomandra longifolia</i> | Spiny-head Matrush | Not Listed | Least Concern |
| Laxmanniaceae | <i>Lomandra multiflora</i> | Many-flowered Matrush | Not Listed | Least Concern |
| Laxmanniaceae | <i>Lomandra multiflora</i> subsp. <i>multiflora</i> | Matrush | Not Listed | Least Concern |
| Laxmanniaceae | <i>Lomandra</i> sp. | | | |
| Lobeliaceae | <i>Lobelia concolor</i> | Poison Pratia | Not Listed | Least Concern |
| Loranthaceae | <i>Amyema bifurcata</i> | | Not Listed | Least Concern |
| Loranthaceae | <i>Amyema sanguinea</i> var. <i>sanguinea</i> | Red Mistletoe | Not Listed | Least Concern |
| Luzuriagaceae | <i>Eustrephus latifolius</i> | Wombat Berry | Not Listed | Least Concern |
| Lythraceae | <i>Ammannia multiflora</i> | Jerry Jerry | Not Listed | Least Concern |
| Malvaceae | <i>Abutilon oxycarpum</i> | Lantern Bush | Not Listed | Least Concern |
| Malvaceae | <i>Abutilon indicum</i> | Indian Mallow | Not Listed | Not Listed |
| Malvaceae | <i>Grewia retusifolia</i> | Dysentery Bush | Not Listed | Least Concern |
| Malvaceae | <i>Hibiscus meraukensis</i> | Wild Rosella | Not Listed | Least Concern |

| Family | Species Name | Common Name | EPBC Act Status | NC Act Status |
|--------------|-------------------------------|------------------------|-----------------|---------------|
| Malvaceae | <i>Hibiscus sturtii</i> | Hill Hibiscus | Not Listed | Least Concern |
| Malvaceae | <i>Malvastrum americanum*</i> | Malvastrum | Not Listed | Not Listed |
| Malvaceae | <i>Melhania oblongifolia</i> | Velvet Hibiscus | Not Listed | Least Concern |
| Malvaceae | <i>Melochia corchorifolia</i> | | Not Listed | Least Concern |
| Malvaceae | <i>Sida cordifolia*</i> | Flannel Weed | Not Listed | Not Listed |
| Malvaceae | <i>Sida hackettiana</i> | Spiked Sida | Not Listed | Least Concern |
| Malvaceae | <i>Sida rholenae</i> | | Not Listed | Least Concern |
| Malvaceae | <i>Sida sp</i> | | | |
| Malvaceae | <i>Sida spinosa*</i> | | Not Listed | Not Listed |
| Malvaceae | <i>Sida subspicata</i> | Spiked Sida | Not Listed | Not Listed |
| Malvaceae | <i>Sida trichopoda</i> | | Not Listed | Least Concern |
| Marsileaceae | <i>Marsilea drummondii</i> | Nardoo | Not Listed | Least Concern |
| Marsileaceae | <i>Marsilea sp.</i> | | | |
| Mimosaceae | <i>Acacia bidwillii</i> | Corkwood Wattle | Not Listed | Not Listed |
| Mimosaceae | <i>Acacia bivenosa</i> | Dune Wattle | Not Listed | Least Concern |
| Mimosaceae | <i>Acacia calyculata</i> | | Not Listed | Least Concern |
| Mimosaceae | <i>Acacia chippendalei</i> | Chippendale's Wattle | Not Listed | Least Concern |
| Mimosaceae | <i>Acacia cowleana</i> | Halls Creek Wattle | Not Listed | Least Concern |
| Mimosaceae | <i>Acacia decora</i> | Pretty Wattle | Not Listed | Least Concern |
| Mimosaceae | <i>Acacia dietrichiana</i> | Dietrich's Wattle | Not Listed | Least Concern |
| Mimosaceae | <i>Acacia disparrima</i> | Hickory Wattle | Not Listed | Least Concern |
| Mimosaceae | <i>Acacia falcata</i> | Sickle Wattle | Not Listed | Least Concern |
| Mimosaceae | <i>Acacia flavescens</i> | Toothed Wattle | Not Listed | Least Concern |
| Mimosaceae | <i>Acacia galioides</i> | | Not Listed | Least Concern |
| Mimosaceae | <i>Acacia gonoclada</i> | lucknow, gvale | Not Listed | Least Concern |
| Mimosaceae | <i>Acacia holosericea</i> | Soapbush | Not Listed | Least Concern |
| Mimosaceae | <i>Acacia hyaloneura</i> | | Not Listed | Least Concern |
| Mimosaceae | <i>Acacia jackesiana</i> | | Not Listed | Least Concern |
| Mimosaceae | <i>Acacia lazaridis</i> | | Not Listed | Least Concern |
| Mimosaceae | <i>Acacia leptostachya</i> | Townsville Wattle | Not Listed | Least Concern |
| Mimosaceae | <i>Acacia multisiliqua</i> | | Not Listed | Least Concern |
| Mimosaceae | <i>Acacia salicina</i> | Sally Wattle | Not Listed | Least Concern |
| Mimosaceae | <i>Acacia sericophylla</i> | | Not Listed | Least Concern |
| Mimosaceae | <i>Acacia shirleyi</i> | Lancewood | Not Listed | Least Concern |
| Mimosaceae | <i>Acacia simsii</i> | Sim's Wattle | Not Listed | Least Concern |
| Mimosaceae | <i>Acacia sp.</i> | | | |
| Mimosaceae | <i>Acacia umbellata</i> | Umbellata Wattle | Not Listed | Least Concern |
| Mimosaceae | <i>Acacia victoriae</i> | Elegant Wattle | Not Listed | Least Concern |
| Mimosaceae | <i>Albizia lebeck</i> | East Indian Walnut | Not Listed | Least Concern |
| Mimosaceae | <i>Neptunia gracilis</i> | Native Sensitive Plant | Not Listed | Least Concern |

| Family | Species Name | Common Name | EPBC Act Status | NC Act Status |
|---------------|--|---------------------------|-----------------|---------------|
| Mimosaceae | <i>Vachellia farnesiana</i> * | Mimosa Bush | Not Listed | Not Listed |
| Mimosaceae | <i>Vachellia nilotica</i> * | Prickly Acacia | WoNS | Class 2 |
| Moraceae | <i>Ficus opposita</i> | Sandpaper Fig | Not Listed | Least Concern |
| Moraceae | <i>Ficus rubiginosa</i> | Rusty Fig | Not Listed | Least Concern |
| Myoporaceae | <i>Eremophila bignoniiflora</i> | Eurah | Not Listed | Least Concern |
| Myoporaceae | <i>Eremophila mitchellii</i> | False Sandalwood | Not Listed | Least Concern |
| Myoporaceae | <i>Myoporum acuminatum</i> | Boobiella | Not Listed | Least Concern |
| Myrsinaceae | <i>Myrsine variabilis</i> | Muttonwood | Not Listed | Least Concern |
| Myrtaceae | <i>Corymbia citriodora</i> | Lemon-scented Gum | Not Listed | Least Concern |
| Myrtaceae | <i>Corymbia clarksoniana</i> | | Not Listed | Least Concern |
| Myrtaceae | <i>Corymbia dallachiana</i> | Ghost Gum | Not Listed | Least Concern |
| Myrtaceae | <i>Corymbia erythrophloia</i> | Variable-barked Bloodwood | Not Listed | Least Concern |
| Myrtaceae | <i>Corymbia lamprophylla</i> | | Not Listed | Least Concern |
| Myrtaceae | <i>Corymbia peltata</i> | Rusty Jacket | Not Listed | Least Concern |
| Myrtaceae | <i>Corymbia polycarpa</i> or <i>clarksoniana</i> | | Not Listed | Least Concern |
| Myrtaceae | <i>Corymbia setosa</i> | Rough-leaved Bloodwood | Not Listed | Least Concern |
| Myrtaceae | <i>Corymbia setosa</i> subsp. <i>pedicellaris</i> | Rough-leaved Bloodwood | Not Listed | Least Concern |
| Myrtaceae | <i>Corymbia</i> sp. | | | |
| Myrtaceae | <i>Corymbia tessellaris</i> | Moreton Bay Ash | Not Listed | Least Concern |
| Myrtaceae | <i>Corymbia trachyphloia</i> | Brown Bloodwood | Not Listed | Least Concern |
| Myrtaceae | <i>Eucalyptus camaldulensis</i> | River Red Gum | Not Listed | Least Concern |
| Myrtaceae | <i>Eucalyptus crebra</i> | Narrow-leaved Ironbark | Not Listed | Least Concern |
| Myrtaceae | <i>Eucalyptus exilipes</i> | Fine-leaved Ironbark | Not Listed | Least Concern |
| Myrtaceae | <i>Eucalyptus exserta</i> | Queensland Peppermint | Not Listed | Least Concern |
| Myrtaceae | <i>Eucalyptus howittiana</i> | Howitts Box | Not Listed | Least Concern |
| Myrtaceae | <i>Eucalyptus leptophleba</i> | Molloy Red Box | Not Listed | Least Concern |
| Myrtaceae | <i>Eucalyptus melanophloia</i> | Silver-leaf Ironbark | Not Listed | Least Concern |
| Myrtaceae | <i>Eucalyptus moluccana</i> | Gum-topped box | Not Listed | Least Concern |
| Myrtaceae | <i>Eucalyptus persistens</i> | Mallee Box | Not Listed | Least Concern |
| Myrtaceae | <i>Eucalyptus platyphylla</i> | Poplar Gum | Not Listed | Least Concern |
| Myrtaceae | <i>Eucalyptus tereticornis</i> | Blue Gum | Not Listed | Least Concern |
| Myrtaceae | <i>Lophostemon grandiflorus</i> | Northern Swamp Box | Not Listed | Least Concern |
| Myrtaceae | <i>Lophostemon suaveolens</i> | Swamp Box | Not Listed | Least Concern |
| Myrtaceae | <i>Melaleuca bracteata</i> | River Teatree | Not Listed | Least Concern |
| Myrtaceae | <i>Melaleuca fluviatilis</i> | Weeping Teatree | Not Listed | Least Concern |
| Myrtaceae | <i>Melaleuca nervosa</i> | Paperbark | Not Listed | Least Concern |
| Myrtaceae | <i>Melaleuca viridiflora</i> var. <i>viridiflora</i> | Broad-leaved Paperbark | Not Listed | Least Concern |
| Nyctaginaceae | <i>Boerhavia dominii</i> | Tarvine | Not Listed | Least Concern |
| Oleaceae | <i>Jasminum didymum</i> subsp. <i>lineare</i> | Native Jasmine | Not Listed | Least Concern |
| Onagraceae | <i>Ludwigia octovalvis</i> | Willow Primrose | Not Listed | Least Concern |

| Family | Species Name | Common Name | EPBC Act Status | NC Act Status |
|-----------------|--|-------------------------|-----------------|---------------|
| Onagraceae | <i>Ludwigia peploides subsp. montevidensis</i> | Water Primrose | Not Listed | Least Concern |
| Orchidaceae | <i>Cymbidium canaliculatum</i> | Tree Orchid | Not Listed | Least Concern |
| Orchidaceae | <i>Geodorum densiflorum</i> | Pink Nodding Orchid | Not Listed | Least Concern |
| Oxalidaceae | <i>Oxalis sp.</i> | Oxalis | | |
| Papaveraceae | <i>Argemone ochroleuca*</i> | Mexican Poppy | Not Listed | Not Listed |
| Passifloraceae | <i>Passiflora aurantia</i> | Native Passionfruit | Not Listed | Least Concern |
| Passifloraceae | <i>Passiflora foetida*</i> | Stinking Passionfruit | Not Listed | Not Listed |
| Pentapetaceae | <i>Melhania oblongifolia</i> | Velvet Hibiscus | Not Listed | Least Concern |
| Phyllanthaceae | <i>Antidesma parvifolium</i> | | Not Listed | Least Concern |
| Phyllanthaceae | <i>Breynia oblongifolia</i> | Coffee Bush | Not Listed | Least Concern |
| Phyllanthaceae | <i>Margaritaria dubium-traceyi</i> | | Not Listed | Least Concern |
| Phyllanthaceae | <i>Phyllanthus carpentariae</i> | | Not Listed | Least Concern |
| Phyllanthaceae | <i>Phyllanthus fuernrohrii</i> | | Not Listed | Least Concern |
| Phyllanthaceae | <i>Phyllanthus maderaspatensis</i> | | Not Listed | Least Concern |
| Phyllanthaceae | <i>Phyllanthus virgatus</i> | | Not Listed | Least Concern |
| Picrodendraceae | <i>Petalostigma banksii</i> | Smooth-leaved Quinine | Not Listed | Least Concern |
| Picrodendraceae | <i>Petalostigma pubescens</i> | Quinine Tree | Not Listed | Least Concern |
| Pittosporaceae | <i>Bursaria incana</i> | Prickly Pine | Not Listed | Least Concern |
| Pittosporaceae | <i>Pittosporum spinescens</i> | Wallaby Apple | Not Listed | Least Concern |
| Plumbaginaceae | <i>Plumbago zeylanica</i> | Wild Plumbago | Not Listed | Least Concern |
| Poaceae | <i>Alloteropsis cimicina</i> | | Not Listed | Least Concern |
| Poaceae | <i>Alloteropsis semialata</i> | Cockatoo Grass | Not Listed | Least Concern |
| Poaceae | <i>Ancistrachne uncinulata</i> | Hooky Grass | Not Listed | Least Concern |
| Poaceae | <i>Aristida acuta</i> | | Not Listed | Least Concern |
| Poaceae | <i>Aristida calycina</i> | Dark Wiregrass | Not Listed | Least Concern |
| Poaceae | <i>Aristida inaequiglumis</i> | Feathertop Threeawn | Not Listed | Least Concern |
| Poaceae | <i>Aristida jerichoensis</i> | Jericho Wiregrass | Not Listed | Least Concern |
| Poaceae | <i>Aristida latifolia</i> | Feathertop Wiregrass | Not Listed | Least Concern |
| Poaceae | <i>Aristida sp.</i> | | | |
| Poaceae | <i>Arundinella nepalensis</i> | Reedgrass | Not Listed | Least Concern |
| Poaceae | <i>Bothriochloa decipiens var. decipiens</i> | | Not Listed | Least Concern |
| Poaceae | <i>Bothriochloa pertusa*</i> | | Not Listed | Not Listed |
| Poaceae | <i>Brachyachne convergens</i> | Native Couch | Not Listed | Least Concern |
| Poaceae | <i>Capillipedium spicigerum</i> | Spicytop | Not Listed | Least Concern |
| Poaceae | <i>Cenchrus ciliaris*</i> | Buffel Grass | Not Listed | Not Listed |
| Poaceae | <i>Chloris virgata*</i> | Feathertop Rhodes Grass | Not Listed | Not Listed |
| Poaceae | <i>Chrysopogon fallax</i> | | Not Listed | Least Concern |
| Poaceae | <i>Cleistochloa subjuncea</i> | | Not Listed | Least Concern |
| Poaceae | <i>Cymbopogon ambiguus</i> | Lemon-scented Grass | Not Listed | Least Concern |
| Poaceae | <i>Cymbopogon bombycinus</i> | Silky Oilgrass | Not Listed | Least Concern |

| Family | Species Name | Common Name | EPBC Act Status | NC Act Status |
|---------|----------------------------------|--------------------------|-----------------|---------------|
| Poaceae | <i>Cymbopogon refractus</i> | Barbed Wire Grass | Not Listed | Least Concern |
| Poaceae | <i>Dichanthium fecundum</i> | Curly Bluegrass | Not Listed | Least Concern |
| Poaceae | <i>Dichanthium sericeum</i> | Silky Bluegrass | Not Listed | Least Concern |
| Poaceae | <i>Dichanthium sp.</i> | Bluegrass | | |
| Poaceae | <i>Digitaria breviglumis</i> | | Not Listed | Least Concern |
| Poaceae | <i>Digitaria divaricatissima</i> | Spinder Grass | Not Listed | Least Concern |
| Poaceae | <i>Digitaria fumida</i> | Bluegrass | Not Listed | Least Concern |
| Poaceae | <i>Digitaria sp.</i> | Finger Grass | | |
| Poaceae | <i>Echinochloa colona*</i> | Awnless Barnyard Grass | Not Listed | Not Listed |
| Poaceae | <i>Ectrosia leporina</i> | | Not Listed | Least Concern |
| Poaceae | <i>Enneapogon lindleyanus</i> | Bottlewasher | Not Listed | Least Concern |
| Poaceae | <i>Enneapogon oblongus</i> | Purple-head Nine-awn | Not Listed | Not Listed |
| Poaceae | <i>Enneapogon polyphyllus</i> | Leafy Nineawn | Not Listed | Least Concern |
| Poaceae | <i>Entolasia stricta</i> | Wiry Panic | Not Listed | Least Concern |
| Poaceae | <i>Eragrostis parviflora</i> | | Not Listed | Least Concern |
| Poaceae | <i>Eragrostis schultzei</i> | | Not Listed | Least Concern |
| Poaceae | <i>Eragrostis sp.</i> | | | |
| Poaceae | <i>Eragrostis speciosa</i> | | Not Listed | Least Concern |
| Poaceae | <i>Eragrostis spartinooides</i> | | Not Listed | Least Concern |
| Poaceae | <i>Eragrostis tenellula</i> | Delicate Lovegrass | Not Listed | Least Concern |
| Poaceae | <i>Eriachne mucronata</i> | Mountain Wanderrie Grass | Not Listed | Least Concern |
| Poaceae | <i>Eriachne obtusa</i> | | Not Listed | Least Concern |
| Poaceae | <i>Eriochloa sp.</i> | | | |
| Poaceae | <i>Eulalia aurea</i> | Silky Browntop | Not Listed | Least Concern |
| Poaceae | <i>Heteropogon contortus</i> | Black Speargrass | Not Listed | Least Concern |
| Poaceae | <i>Heteropogon triticeus</i> | Giant Speargrass | Not Listed | Least Concern |
| Poaceae | <i>Imperata cylindrica</i> | Blady Grass | Not Listed | Least Concern |
| Poaceae | <i>Leptochloa digitata</i> | Umbrella Canegrass | Not Listed | Least Concern |
| Poaceae | <i>Melinis repens*</i> | Red Natal Grass | Not Listed | Not Listed |
| Poaceae | <i>Mnesithea formosa</i> | | Not Listed | Least Concern |
| Poaceae | <i>Mnesithea granularis</i> | | Not Listed | Least Concern |
| Poaceae | <i>Mnesithea rottboellioides</i> | Northern Canegrass | Not Listed | Least Concern |
| Poaceae | <i>Ophiuros exaltatus</i> | | Not Listed | Least Concern |
| Poaceae | <i>Panicum decompositum</i> | Native Millet | Not Listed | Least Concern |
| Poaceae | <i>Panicum effusum</i> | Hairy Panic | Not Listed | Least Concern |
| Poaceae | <i>Panicum queenslandicum</i> | Yabila Grass | Not Listed | Least Concern |
| Poaceae | <i>Panicum sp.</i> | | | |
| Poaceae | <i>Paspalidium constrictum</i> | | Not Listed | Least Concern |
| Poaceae | <i>Paspalidium rarum</i> | | Not Listed | Least Concern |
| Poaceae | <i>Paspalidium sp.</i> | | | |

| Family | Species Name | Common Name | EPBC Act Status | NC Act Status |
|---------------|---------------------------------|---------------------------|-----------------|---------------|
| Poaceae | <i>Pennisetum basedowii</i> | Asbestos Grass | Not Listed | Not Listed |
| Poaceae | <i>Perotis rara</i> | Comet Grass | Not Listed | Least Concern |
| Poaceae | <i>Pseudoraphis spinescens</i> | Mud Grass | Not Listed | Least Concern |
| Poaceae | <i>Sarga plumosum</i> | Native Sorghum | Not Listed | Least Concern |
| Poaceae | <i>Schizachyrium fragile</i> | Firegrass | Not Listed | Least Concern |
| Poaceae | <i>Sehima nervosum</i> | | Not Listed | Least Concern |
| Poaceae | <i>Setaria surgens</i> | Pigeon Grass?gvale | Not Listed | Least Concern |
| Poaceae | <i>Sporobolus australasicus</i> | | Not Listed | Least Concern |
| Poaceae | <i>Sporobolus actinocladius</i> | Katoora Grass | Not Listed | Least Concern |
| Poaceae | <i>Sporobolus caroli</i> | Fairy Grass | Not Listed | Least Concern |
| Poaceae | <i>Sporobolus elongatus</i> | Slender Rat's Tail Grass | Not Listed | Least Concern |
| Poaceae | <i>Sporobolus jacquemontii*</i> | American rat's tail grass | Not Listed | Class 2 |
| Poaceae | <i>Themeda avenacea</i> | | Not Listed | Least Concern |
| Poaceae | <i>Themeda quadrivalvis*</i> | Grader Grass | Not Listed | Not Listed |
| Poaceae | <i>Themeda triandra</i> | Kangaroo Grass | Not Listed | Least Concern |
| Poaceae | <i>Triodia mitchelli</i> | Buck Spinifex | Not Listed | Least Concern |
| Poaceae | <i>Triodia pungens</i> | | Not Listed | Least Concern |
| Poaceae | <i>Urochloa sp</i> | | | |
| Polygalaceae | <i>Polygala linariifolia</i> | Native Milkwort | Not Listed | Not Listed |
| Polygonaceae | <i>Persicaria attenuata</i> | | Not Listed | Least Concern |
| Portulacaceae | <i>Portulaca oleracea*</i> | Pigweed | Not Listed | Not Listed |
| Proteaceae | <i>Grevillea glauca</i> | Bushmans Clothes Pegs | Not Listed | Least Concern |
| Proteaceae | <i>Grevillea mimosoides</i> | | Not Listed | Least Concern |
| Proteaceae | <i>Grevillea parallela</i> | Silver Oak | Not Listed | Least Concern |
| Proteaceae | <i>Hakea arborescens</i> | Common Hakea | Not Listed | Least Concern |
| Proteaceae | <i>Hakea lorea</i> | Bootlace Oak | Not Listed | Least Concern |
| Proteaceae | <i>Persoonia falcata</i> | Geebung | Not Listed | Least Concern |
| Proteaceae | <i>Xylomelum scottianum</i> | Native Pear | Not Listed | Least Concern |
| Rhamnaceae | <i>Alphitonia excelsa</i> | Red Ash | Not Listed | Least Concern |
| Rhamnaceae | <i>Alphitonia obtusifolia</i> | White Ash | Not Listed | Not Listed |
| Rubiaceae | <i>Coelospermum reticulatum</i> | | Not Listed | Least Concern |
| Rubiaceae | <i>Everistia vacciniifolia</i> | Small-leaved Canthium | Not Listed | Least Concern |
| Rubiaceae | <i>Gardenia vilhelmii</i> | Breadfruit | Not Listed | Least Concern |
| Rubiaceae | <i>Larsenaikia ochreatea</i> | Native Gardenia | Not Listed | Least Concern |
| Rubiaceae | <i>Pogonolobus reticulatus</i> | Medicine Bush | Not Listed | Not Listed |
| Rubiaceae | <i>Psyrax forsteri</i> | | Not Listed | Least Concern |
| Rubiaceae | <i>Psyrax odorata</i> | | Not Listed | Least Concern |
| Rubiaceae | <i>Psyrax saligna</i> | | Not Listed | Least Concern |
| Rubiaceae | <i>Spermacoce brachystema</i> | Blueheads | Not Listed | Least Concern |
| Rutaceae | <i>Geijera salicifolia</i> | Brush Wilga | Not Listed | Least Concern |

| Family | Species Name | Common Name | EPBC Act Status | NC Act Status |
|------------------|---|----------------------|-----------------|---------------|
| Sapindaceae | <i>Alectryon oleifolius</i> | Bonaree | Not Listed | Least Concern |
| Sapindaceae | <i>Atalaya hemiglauca</i> | Whitewood | Not Listed | Least Concern |
| Sapindaceae | <i>Dodonaea dodecandra</i> | | Not Listed | Least Concern |
| Sapindaceae | <i>Dodonaea filifolia</i> | Hopbush | Not Listed | Least Concern |
| Sapindaceae | <i>Dodonaea lanceolata</i> | Hopbush | Not Listed | Least Concern |
| Sapindaceae | <i>Dodonaea lanceolata var. subsessilifolia</i> | Hopbush | Not Listed | Least Concern |
| Sapindaceae | <i>Dodonaea viscosa ssp. mucronata</i> | Hopbush | Not Listed | Least Concern |
| Sapotaceae | <i>Planchonella cotinifolia var. pubescens</i> | Small-leaved Plum | Not Listed | Least Concern |
| Scrophulariaceae | <i>Mecardonia procumbens*</i> | Baby Jump-up | Not Listed | Not Listed |
| Scrophulariaceae | <i>Scoparia dulcis*</i> | Vassourinha | Not Listed | Not Listed |
| Scrophulariaceae | <i>Striga curviflora</i> | | Not Listed | Least Concern |
| Solanaceae | <i>Physalis sp.</i> | Wild Gooseberry | | |
| Solanaceae | <i>Solanum echinatum</i> | Tomato Bush | Not Listed | Least Concern |
| Solanaceae | <i>Solanum ellipticum</i> | Potato Bush | Not Listed | Least Concern |
| Solanaceae | <i>Solanum parvifolium</i> | Nightshade | Not Listed | Least Concern |
| Solanaceae | <i>Solanum seafortianum*</i> | Brazilian Nightshade | Not Listed | Not Listed |
| Sparrmanniaceae | <i>Corchorus pumilio</i> | | Not Listed | Least Concern |
| Thymelaeaceae | <i>Thecanthes cornucopiae</i> | | Not Listed | Not Listed |
| Verbenaceae | <i>Callicarpa candicans</i> | | Not Listed | Least Concern |
| Verbenaceae | <i>Lantana camara*</i> | Lantana | WoNS | Class 3 |
| Violaceae | <i>Afrohybanthus enneaspermus</i> | Purple Spade Flower | Not Listed | Least Concern |
| Violaceae | <i>Afrohybanthus stellarioides</i> | Orange Spade Flower | Not Listed | Least Concern |
| Vitaceae | <i>Cayratia clematidea</i> | Slender Grape | Not Listed | Least Concern |
| Vitaceae | <i>Cayratia trifolia</i> | Threeleaf Cayratia | Not Listed | Least Concern |
| Xanthorrhoeaceae | <i>Xanthorrhoea johnsonii</i> | Johnson's Grasstree | Not Listed | Least Concern |

Appendix E Fauna Species Inventory

| Family | Scientific Name | Common Name | NC /LP Act Status | EPBC Act status | 2018 | | | | | | | | | | | | | | | | Survey Total | |
|--|--|---|-------------------|-----------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|
| | | | | | OPPS | KFa01 (FS34) | KFa02 (FS35) | KFa03 (FS36) | KFa05 (FS37) | KFa06 (FS38) | KFa07 (FS39) | KFa09 (FS40) | LF06 (FS46) | LF07 (FS47) | LF08 (FS48) | LF09 (FS49) | GF01 (FS41) | GF02 (FS42) | GF03 (FS43) | GF04 (FS44) | | GF05 (FS45) |
| Mammals | | | | | | | | | | | | | | | | | | | | | | |
| Canidae | <i>Canis lupus dingo/familiaris</i> | Dingo/Wild Dog | I | NL | 8 | | | | | 1 | | | | | | | | | | | | 9 |
| Dasyuridae | <i>Sminthopsis murina</i> | Common Dunnart | LC | NL | | | | 1 | | | | | | | | | | | | | | 1 |
| Emballonuridae | <i>Saccolaimus flaviventris</i> | Yellow-bellied Sheath-tail-bat | LC | NL | | ^ | ^ | | U | U | | U | U | U | | | U | U | U | | | 11 |
| Emballonuridae | <i>Taphozous troughtoni</i> | Troughton's sheath-tailed bat | LC | NL | | | | | U | ^ | | U | | | | | U | | A | | U | 6 |
| Felidae | <i>Felis catus</i> | Feral Cat | I | NL | | 1 | | 1 | | | | | | | | | | | | | | 2 |
| Leporidae | <i>Oryctolagus cuniculus</i> | European Rabbit | I | NL | 3 | | | | | | | | | | | | | | | | | 3 |
| Macropodidae | <i>Macropus dorsalis</i> | Black Striped Wallaby | LC | NL | 27 | | | | | 2 | 1 | | | | | | | | | | | 30 |
| Macropodidae | <i>Macropus giganteus</i> | Eastern Grey Kangaroo | LC | NL | 75 | | | | 12 | | | | | | | | | | | | | 87 |
| Macropodidae | <i>Macropus parryi</i> | Whiptail wallaby | LC | NL | 64 | 2 | | | | | 1 | 2 | | 2 | | | | | | | | 71 |
| Macropodidae | <i>Wallabia bicolor</i> | Swamp Wallaby | LC | NL | | | | 1 | | | | | | | | | | | | | | 1 |
| Macropodidae | <i>Osphranter robustus</i> | Common Wallaroo | LC | NL | 10 | | | | | | | | 3 | | | | 1 | | | | | 14 |
| Miniopteridae | <i>Miniopterus australis</i> | Little Bent-wing Bat | LC | NL | | U | U | U | U | U | | U | U | U | | | U | U | U | | U | 12 |
| Miniopteridae | <i>Miniopterus schreibersii oceanensis</i> | Eastern Bent-wing Bat | LC | NL | | U | U | U | U | U | | U | U | | U | | U | U | U | | U | 12 |
| Molossidae | <i>Austronomus australis</i> | White-striped Free-tailed Bat | LC | NL | | U | U | U | U | U | | U | U | U | U | | | | U | | U | 11 |
| Molossidae | <i>Chaerephon jobensis</i> | Northern Freetail Bat | LC | NL | | U | U | U | U | U | | U | U | U | | | U | U | U | | U | 12 |
| Molossidae | <i>Mormopterus lumsdenae</i> | Northern Free-tailed Bat | LC | NL | | U | U | | U | U | | U | U | U | | | U | | U | | U | 10 |
| Molossidae | <i>Mormopterus ridei</i> | Ride's Free-tailed Bat | LC | NL | | U | U | U | U | U | | U | U | | | | U | U | | | U | 10 |
| Muridae | <i>Leggadina lakedownensis</i> | Northern Short-tailed mouse | LC | NL | | | | 1 | | | | 1 | | | | | | | | | | 2 |
| Muridae | Muridae sp. | | | | | 1 | | | | | | | | | | | | | | | | 1 |
| Petauridae | <i>Petaurus norfolcensis</i> | Squirrel Glider | | | | | | 1 | | | | | | | | | | | | | | 1 |
| Phalangeridae | <i>Trichosurus vulpecula</i> | Common Brushtail Possum | LC | NL | 3 | | | | | 2 | 2 | | | | | | | | | | | 7 |
| Potoroidea | <i>Aepyprymnus rufescens</i> | Rufous Bettong | LC | NL | 9 | 1 | | 1 | | 1 | | | | | | | | | | | | 12 |
| Rhinolophidae | <i>Rhinolophus megaphyllus</i> | Eastern Horseshoe Bat | LC | NL | | U | U | U | U | U | | U | | | | | U | U | | | | 8 |
| Rhinolophidae | <i>Rhinolophus robertsi</i> | Large-eared Horseshoe Bat | E | V | | | | ^ | ^ | | | | | | | | | | | | | 2 |
| Suidae | <i>Sus scrofa</i> | Feral Pig | I | NL | 32 | 3 | | | 3 | | | | | | | | | | | | | 38 |
| Tachyglossidae | <i>Tachyglossus aculeatus</i> | Short-beaked echidna | SL | NL | 1 | | | | | | | | | | | | | | | | | 2 |
| Vespertilionidae | <i>Chalinolobus gouldii</i> | Gould's Wattled Bat | LC | NL | | U | ^ | U | U | U | | U | | U | | | U | U | | | U | 10 |
| Vespertilionidae | <i>Chalinolobus nigrogriseus</i> | Hoary Wattled Bat | LC | NL | | U | U | U | U | U | | U | U | U | | | ^ | | U | | U | 11 |
| Vespertilionidae | <i>Chalinolobus picatus</i> | Little Pied Bat | LC | NL | | | | | | | | A | | | | A | | | | | | 2 |
| Vespertilionidae | <i>Nyctophilus</i> sp. | | | | | | | | | | | A | | | | A | | | | | | 2 |
| Vespertilionidae | <i>Scotorepens greyii / S. sanborni</i> | Little Broad-nosed Bat/Northern Broad-nosed Bat | LC | NL | | A | A | A | A | A | | A | | | | | A | A | A | | A | 10 |
| Vespertilionidae | <i>Vespadelus troughtoni</i> | Eastern Cave Bat | LC | NL | | U | | | | | | U | | | | | | | | | U | 2 |
| FERAL / DOMESTICATED / INTRODUCED SPECIES | | | | | 43 | 4 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52 |
| NATIVE MAMMALS (NON-BATS) | | | | | 189 | 4 | 0 | 5 | 12 | 5 | 4 | 2 | 1 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 229 |
| BATS | | | | | 0 | 12 | 10 | 10 | 13 | 12 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 131 |
| TOTAL MAMMALS | | | | | 232 | 20 | 10 | 16 | 28 | 18 | 4 | 14 | 1 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 412 |

Appendix F Anabats results

Anabat Data Analysis Summary

Client: AustralAsian Resource Consultants

Contact: Connor Ryan

Job no.: AARC1001

Location: 45km north of Greenvale, NE Qld

Analysis Date: 26/05/2010

| Species | Date | | | Total calls for species |
|--|------------|------------|------------|-------------------------|
| | 15/04/2010 | 16/04/2010 | 17/04/2010 | |
| Calls positively identified | | | | |
| <i>Saccolaimus flaviventris</i> | 12 | 1 | 15 | 28 |
| <i>Mormopterus ridei</i> | | | 281 | 281 |
| <i>Rhinlophus megaphyllus</i> | | 1 | | 1 |
| <i>Chalinolobus nigrogriseus</i> | | 4 | 3 | 7 |
| <i>Scotorepens sanborni</i> | 1 | | 27 | 28 |
| <i>Vespadelus troughtoni</i> | | 1 | | 1 |
| <i>Miniopterus australis</i> | 16 | 1 | 5 | 22 |
| <i>Miniopterus oriana oceanensis</i> | 8 | 4 | 1 | 13 |
| Total positively identified calls | 37 | 12 | 332 | 381 |
| Calls not positively identified * | | | | |
| <i>C. nigrogriseus</i> or <i>S. sanborni</i> | 4 | 2 | 30 | 36 |
| <i>Scoteanax rueppellii</i> or <i>Scotorepens</i> spp | | | 8 | 8 |
| <i>M. ridei</i> or <i>S. rueppellii</i> or <i>Scotorepens</i> spp. | | | 53 | 53 |
| unknown calls (too brief/weak for ID) | 12 | | 61 | 73 |
| Total calls not positively identified | 16 | 2 | 152 | 170 |
| Total calls for night | 53 | 14 | 484 | 551 |
| files with noise only | 9 | 77 | 4 | 90 |

* refer to Notes section (below) for discussion on calls not positively identified

Species nomenclature:

Species names used in the above table follow Churchill (2008).

Call identification & reporting standard:

Call identification for this data set was based on call descriptions and keys presented in Reinhold *et al.* (2001) as well as reference calls collected in central and north eastern Queensland.

Determination of species' identification was further refined by considering probability of occurrence based on distributional information presented in Churchill (2008) and van Dyck & Strahan (2008).

The format and content of this report complies with nationally accepted standards for the interpretation and reporting of Anabat data (Reardon 2003); latest version available from the Australasian Bat Society on-line at <http://www.ausbats.org.au/>.

Notes to the table - species not positively identified

C. nigrogriseus or *S. sanborni*

frequency overlaps; pulse shape diagnostic in good quality calls but low quality calls are difficult to differentiate

Scoteanax rueppellii or *Scotorepens* spp

S. rueppellii freq. & pulse shape similar to *Scotorepens balstoni* & *S. orion* but these spp would be near/beyond range limits here; *S. sanborni* usually higher frequency; a few calls probably *S. rueppellii* but possibly also *S. sanborni*

M. ridei or *S. rueppellii* or *Scotorepens* spp

M. ridei usually has uniform flat pulses but can be erratic and include variably curved pulses; freq. range overlaps *S. rueppellii* & *Scotorepens* spp.; numerous calls with curved pulses could not be reliably differentiated to any of these spp

unknown calls (too brief/weak for ID)

does not represent additional species; rather, very poor calls (1-2 weak pulses) of those already listed

Anabat Data Analysis Summary

Client: AustralAsian Resource Consultants

Contact: Connor Ryan

Job no.: AARC1001

References:

Churchill, S. (2008). *Australian Bats* . Jacana Books, Allen & Unwin; Sydney.

Reardon, T. (2003). Standards in bat detector based surveys. *Australasian Bat Society Newsletter* **20**, 41-43.

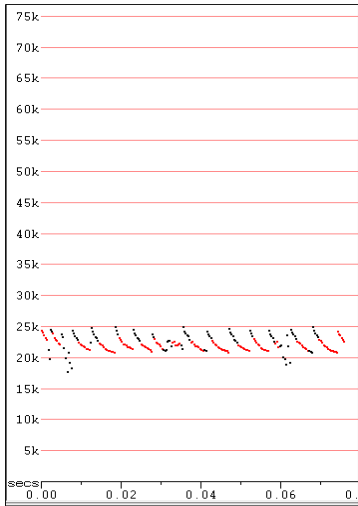
Reinhold, L., Law, B., Ford, G. and Pennay, M. (2001). *Key to the bat calls of south-east Queensland and north-east New South Wales* . Department of Natural Resources and Mines, Brisbane.

van Dyck, S. and Strahan, R. (ed.) (2008). *The Mammals of Australia* (Third Edition); New Holland; Sydney.

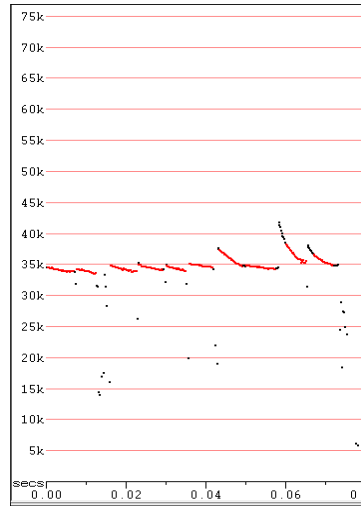
Anabat Data Analysis Summary

Sample calls extracted from the Greenvale survey data (AARC, April 2010)

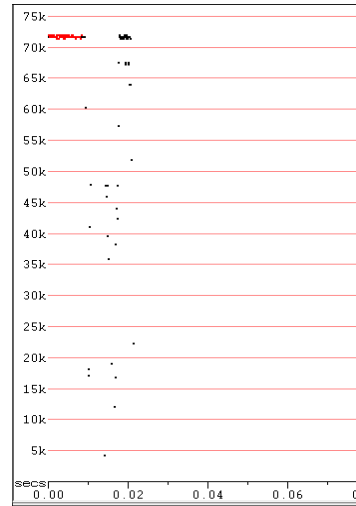
Scale: 10 msec per tick; time between pulses removed (*AnalogW* F7 compressed mode)



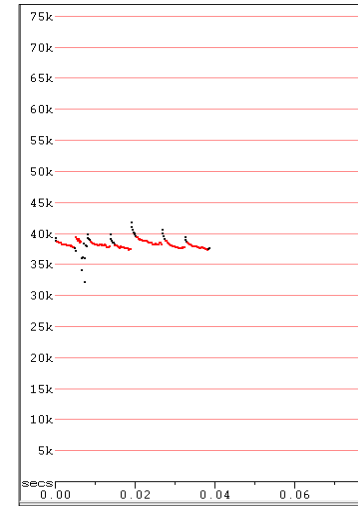
Saccolaimus flaviventris



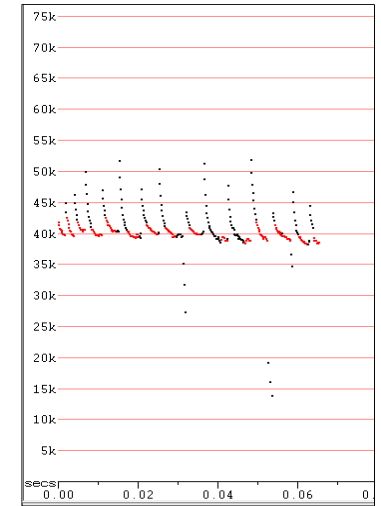
Mormopterus ridei



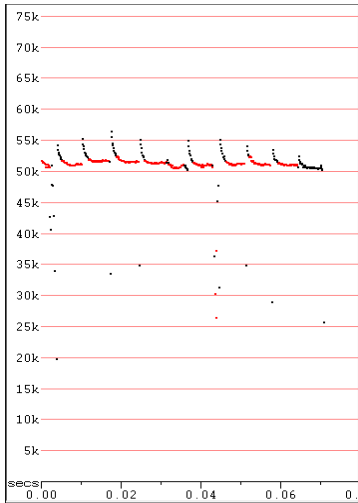
Rhinolophus megaphyllus



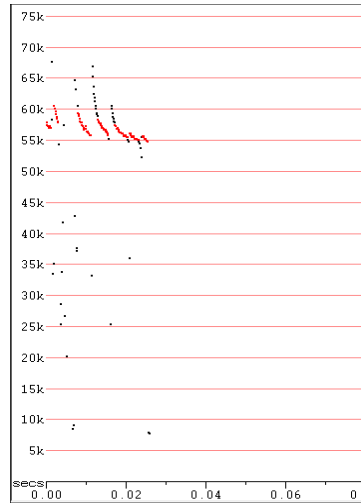
Chalinolobus nigrogriseus



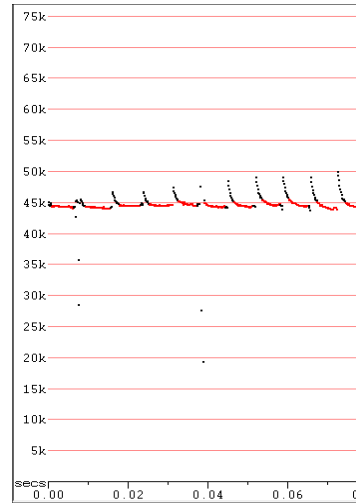
Scotorepens sanborni



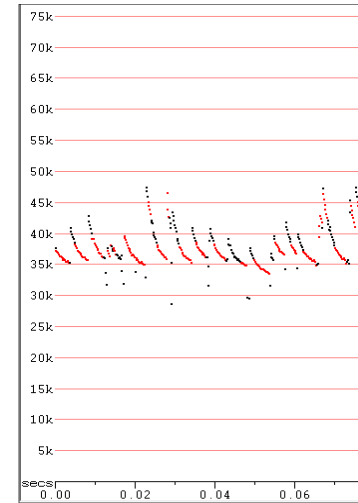
Vespadelus troughtoni



Miniopterus australis



Miniopterus orianae oceanensis



Probably *Scoteanax rueppellii*

Anabat echolocation data interpretation summary

Client: AARC (Julie Byrd)

Balance Job no.: AARC1106

Project name/location: Greenvale (8-11 April 2011)

Data summary tables

Numbers in columns indicate number of calls attributed to species/group for given night

| Date: | 8-Apr | 9-Apr | 10-Apr | 11-Apr |
|--|-----------|------------|------------|------------|
| No. sequence files recorded: | 65 | 122 | 166 | 149 |
| Species positively identified (i.e. species definitely present) | | | | |
| <i>Rhinolophus megaphyllus</i> | | 1 | | |
| <i>Chalinolobus gouldii</i> | 1 | 2 | 1 | 18 |
| <i>Chalinolobus nigrogriseus</i> | 3 | 11 | 3 | 6 |
| <i>Nyctophilus species</i> | | | 2 | 5 |
| <i>Scotorepens sanborni / S. greyii</i> | | 2 | 4 | 11 |
| <i>Vespadelus troughtoni</i> | | 1 | 11 | 3 |
| <i>Miniopterus australis</i> | 4 | 3 | 11 | 5 |
| <i>Miniopterus orianae oceanensis</i> | 6 | 14 | 13 | 36 |
| <i>Chaerephon jobensis</i> | | 2 | 3 | 6 |
| <i>Mormopterus beccarii</i> | 5 | 5 | 6 | 7 |
| <i>Mormopterus ridei</i> | | 7 | | 5 |
| <i>Saccolaimus species</i> | | 5 | 15 | 4 |
| <i>Taphozous troughtoni</i> | | | 3 | 2 |
| Total calls positively identified | 19 | 52 | 72 | 108 |
| Calls NOT positively identified * | | | | |
| <i>Chalinolobus gouldii</i> or <i>Mormopterus ridei</i> | 1 | | 1 | 3 |
| <i>S. sanborni/S. greyii</i> or <i>Chalinolobus nigrogriseus</i> | | 30 | 16 | 10 |
| <i>Chaerephon jobensis</i> or <i>Saccolaimus sp</i> | 5 | 24 | 11 | 17 |
| <i>Mormopterus beccarii</i> or <i>Saccolaimus sp</i> | 8 | 1 | | 1 |
| <i>Mormopterus beccarii</i> or <i>Taphozous troughtoni</i> | | | 2 | 2 |
| Unidentified bat calls | | 7 | 8 | 1 |
| Total calls not positively identified | 14 | 62 | 38 | 34 |
| Total calls for site/night | 33 | 114 | 110 | 142 |

* A species listed in the bottom section of the table that is not also listed in the top section should be considered as possibly present. Likelihood of occurrence and call identification issues for these species are discussed in the 'Reliability of species ID' section on the following pages.

Species nomenclature:

Species names used in this summary follow Churchill (2008).

Call identification & reporting standard:

No bat call identification guide or key exists for the region from which these data were collected.

Call identification was based on published call descriptions (Milne 2001; Reinhold *et al* 2001; and Pennay *et al.* 2004); and on reference calls collected from central and northern Queensland.

Determination of species' identification was further refined by considering probability of occurrence based on distributional information presented in Churchill (2008) and van Dyck & Strahan (2008).

The format and content of this report complies with nationally accepted standards for the interpretation and reporting of Anabat data (Reardon 2003); latest version available from the Australasian Bat Society on-line at <http://www.ausbats.org.au/>.

Anabat echolocation data interpretation summary

Client: AARC (Julie Byrd)

Balance Job no.: AARC1106

Project name/location: Greenvale (8-11 April 2011)

Reliability of species ID

Nyctophilus species

Nyctophilus bats generally produce distinctive calls, but the species cannot be reliably differentiated from call data. Several species are likely to be present in the study area, including: *N. bifax*, *N. geoffroyi* and *N. gouldi*.

Scotorepens sanborni / *S. greyii*

These species' calls cannot be differentiated. *S. sanborni* is the likely candidate for most calls attributed to this pair, as *S. greyii* would be on the edge of its known geographic range in the study area.

Saccolaimus species

The most likely candidate for these calls is the common yellow-bellied sheath-tailed bat (*S. flaviventris*); however, the endangered bare-rumped sheath-tailed bat (*S. saccolaimus*) produces calls that are difficult to distinguish from those of *S. flaviventris*. Based on accepted distributional ranges (e.g. see Churchill 2008), it is possible that *S. saccolaimus* occurs within the study area; however, this Anabat result needs to be considered in conjunction with an assessment of the availability of suitable habitat for the species. **Further survey using additional detection methods may be warranted.**

Chalinolobus gouldii or *Mormopterus ridei*

C. gouldii (Fc=28-34kHz) has steep and curved pulses that usually alternate in frequency by 2-3kHz. *M. ridei* (Fc=30-34kHz) pulses are generally much flatter; however, pulses sometimes steepen when flying close to vegetation and brief calls may be confused with calls from *C. gouldii*. A number of calls were positively attributed to each species based on these characteristics. Several calls, however, had intermediate pulse shapes and lacked evidence of alternation, so could have been from either species.

Scotorepens sanborni / *S. greyii* or *Chalinolobus nigrogriseus*

Significant frequency overlap occurs in the range 36-39kHz, but pulse shape is sometimes diagnostic. A number of calls were positively attributed to *C. nigrogriseus* based on flat to downward sloping body of relatively long duration (2/3 of total pulse duration). A few calls were also positively attributed to *Scotorepens* spp based on the cup-shaped body of shorter duration (<1/2 total pulse duration). Many calls, however, had pulses with intermediate features or a mixture of pulse types and could not be reliably differentiated.

Cherephon jobensis / *Saccolaimus* spp / *Taphozous troughtoni* / *Mormopterus beccarii*

Frequency overlap occurs between these spp across a range of about 12kHz: *C. jobensis* (15-21kHz); *S. flaviventris* (17-22kHz); *T. troughtoni* (23-25kHz); *M. beccarii* (21-27kHz). Most calls from this survey were of sufficient quality to be reliably attributed to one or other of these species based on unique combinations of frequency, pulse shape and uniformity of pulse repetition. A few calls, however, were brief and/or weak and had intermediate pulse/frequency characteristics, so could not be reliably identified. These were attributed to species pairs based on frequency range.

Unidentified bat calls

Many calls were too brief and/or weak and/or contained too much interference to enable reliable identification to species. All such calls were within frequency ranges of one or more species otherwise identified from the data and do not represent additional species.

References:

Churchill, S. (2008). *Australian Bats*. Jacana Books, Allen & Unwin; Sydney.

Milne, D.J. (2002). *Key to the Bat Calls of the Top End of the Northern Territory*. Technical Report No. 71, Parks and Wildlife Commission of the Northern Territory, Darwin.

Pennay, M., Law, B. and Reinhold, L. (2004). *Bat Calls of New South Wales*. Department of Environment and Conservation, Hurstville.

Reardon, T. (2003). Standards in bat detector based surveys. *Australasian Bat Society Newsletter* **20**, 41-43.

Reinhold, L., Law, B., Ford, G. and Pennay, M. (2001). *Key to the bat calls of south-east Queensland and north-east New South Wales*. Department of Natural Resources and Mines, Brisbane.

van Dyck, S. and Strahan, R. (ed.) (2008). *The Mammals of Australia* (Third Edition); New Holland; Sydney.

Anabat Data Analysis Summary

Client: AARC (Julie Byrd)

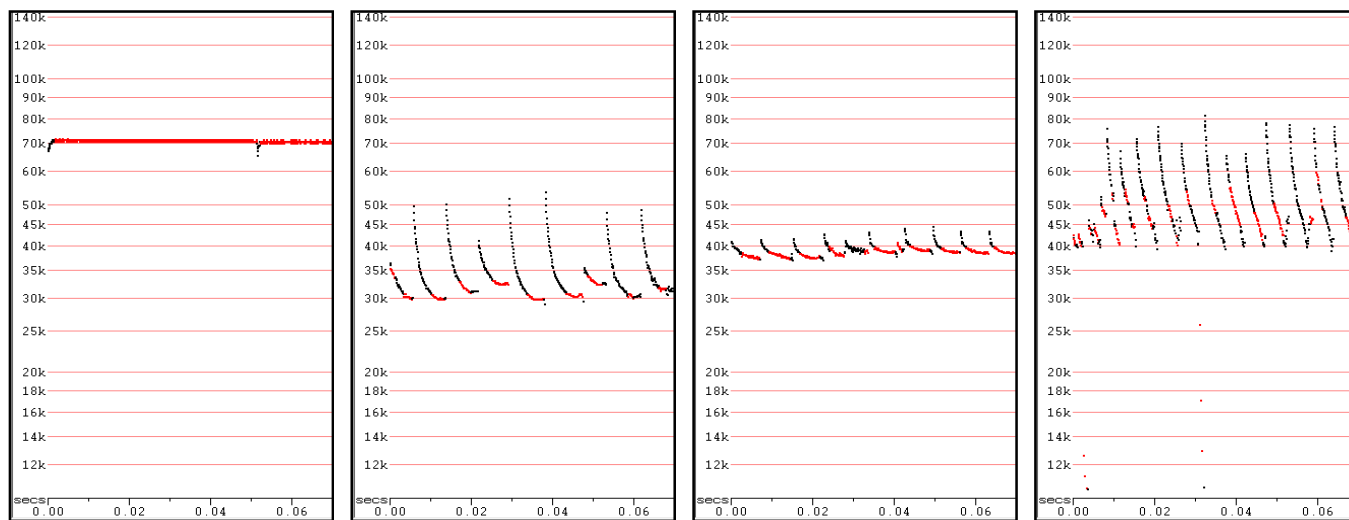
Balance Job no.: AARC1106

Project name/location: Greenvale (8-11 April 2011)

Sample calls extracted from the survey data.

Scale: 10 msec per tick; time between pulses removed
(AnalogW F7 compressed mode)

Species positively identified

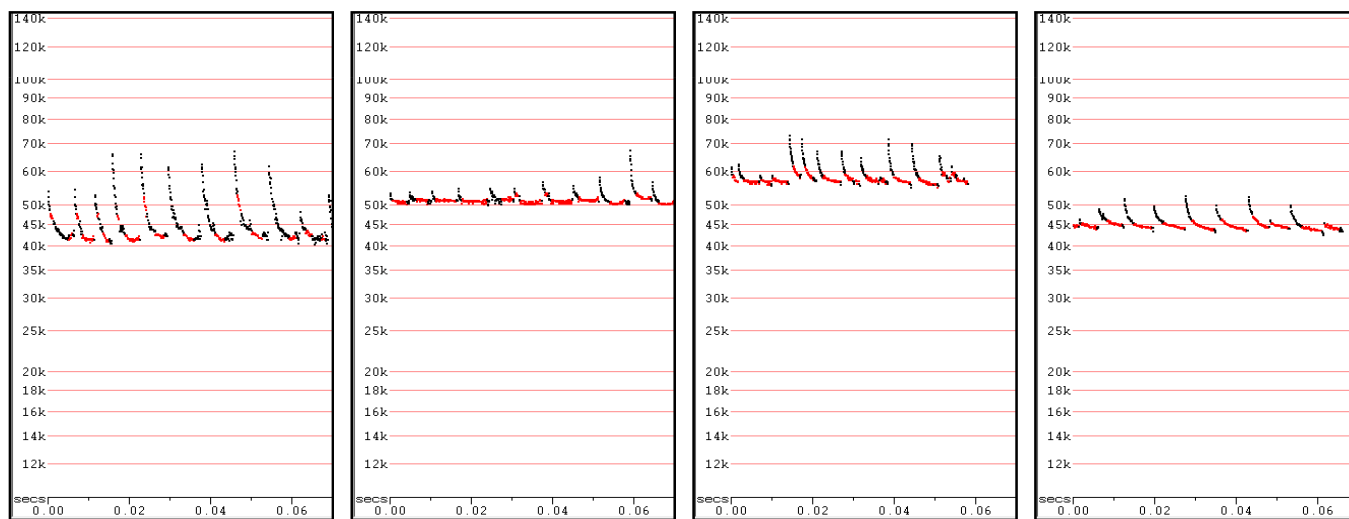


Rhinolophus megaphyllus

Chalinolobus gouldii

Chalinolobus nigrogriseus

Nyctophilus species

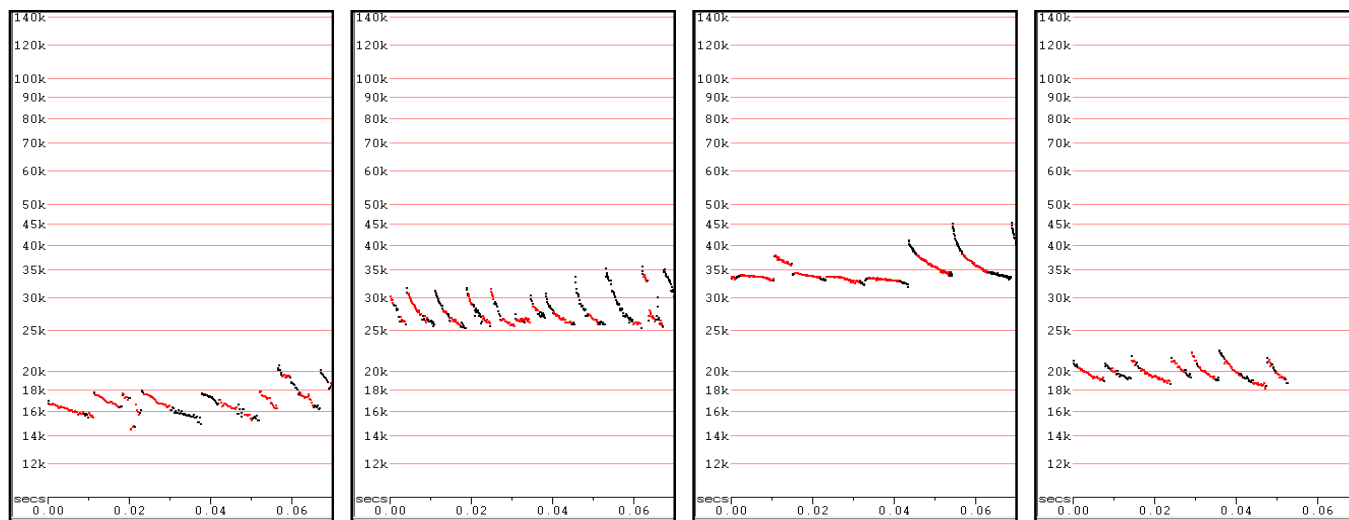


S. sanborni / S. greyii

Vespadelus troughtoni

Minopterus australis

Minopterus orianae oceanensis



Chaerephon jobensis

Mormopterus beccarii

Mormopterus ridei

Saccolaimus species

Anabat Data Analysis Summary

Client: AARC (Julie Byrd)

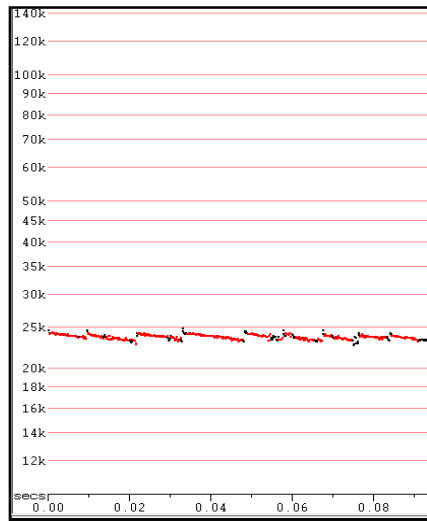
Balance Job no.: AARC1106

Project name/location: Greenvale (8-11 April 2011)

Sample calls extracted from the survey data.

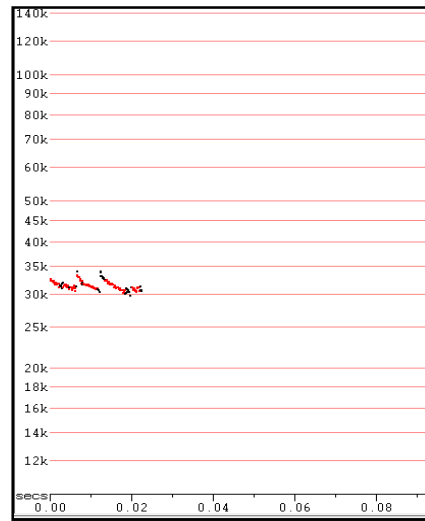
Scale: 10 msec per tick; time between pulses removed
(AnalogW F7 compressed mode)

Species positively identified

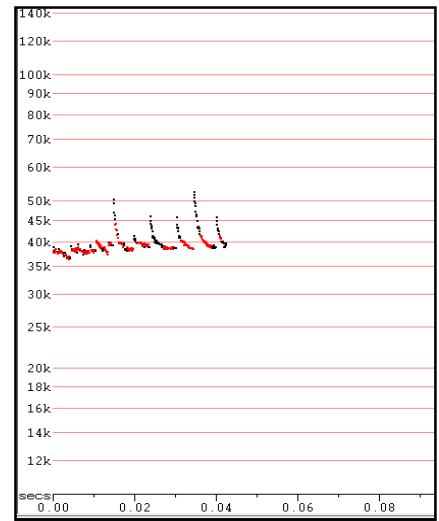


Taphozous troughtoni

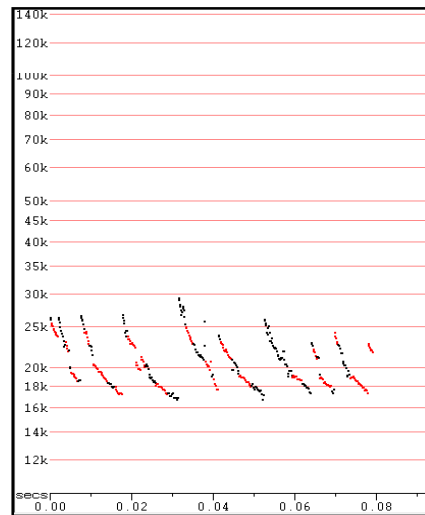
Calls NOT positively identified



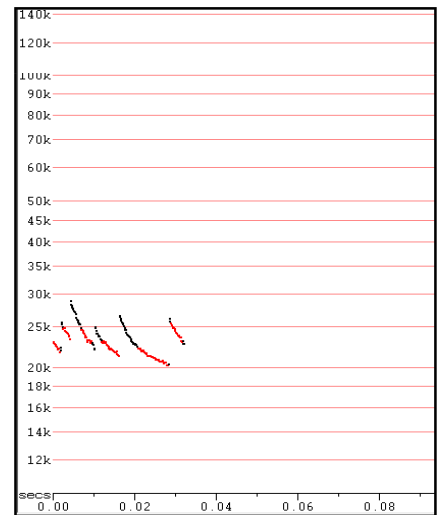
C. gouldii or *M. ridei*



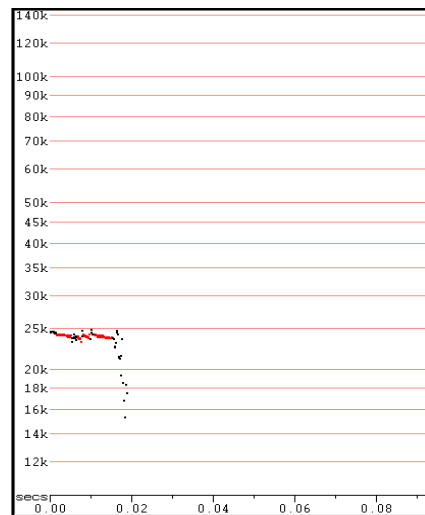
S. sanborni/S. greyii or *C. nigrogriseus*



C. jobensis or *Saccolaimus* sp



M. beccarii or *Saccolaimus* sp



M. beccarii or *T. troughtoni*

Microbat Echolocation Call Analysis

Client: AustralAsian Resource Consultants

Balance Job no.: AARC-1202

Project name/location: Greenvale Survey, 26-27 April 2012

Echolocation survey methods

A single Anabat (Titley Scientific, Brisbane) detector was deployed for passive bat monitoring surveys over two consecutive nights (26th and 27th February 2012). Detection sessions commenced at approximately 7pm each night and ceased at 6am the following morning.

Data format and call identification methods

Survey data were received as an Anabat data file (CF 01324 20120328 1031-22.dat), which was processed using *CFCread* (Corben 2011) to yield 382 Anabat sequence files in zero-crossing format. The zero-crossing files were analysed using *AnalookW* Ver3.7 (Corben 2009), with species identification achieved manually by viewing all call sequences and comparing with reference calls from eastern Queensland and/or information published in bat call identification guides (e.g. Reinhold et al 2001; Pennay et al. 2004).

Determination of species' identity was further refined by considering probability of occurrence based on distributional information presented in Churchill (2008) and van Dyck & Strahan (2008).

Reporting standard

The format and content of this report complies with nationally accepted standards for the interpretation and reporting of Anabat data (Reardon 2003); latest version available from the Australasian Bat Society on-line at <http://www.ausbats.org.au/>.

Species nomenclature

Species names used in this report follow Churchill (2008).

Results

The 382 Anabat sequence files contained some 380 bat calls, of which only 273 were of sufficient duration and clarity to enable attribution to a recognised species or group. The remaining 107 calls contained only background noise and/or fewer than three clear pulses, which precluded reliable identification.

Six microbat species were reliably identified from this Anabat data set, including: *Chalinolobus gouldii*, *Scotorepens sanborni*, *Miniopterus orianae oceanensis*, *Mormopterus beccarii*, *M. ridei* and *Saccolaimus flaviventris*. Table 1 provides a breakdown of species present on each of the two survey nights.

At least two and potentially three additional species were also recorded but could not be reliably identified based on the call data alone. A discussion on the likelihood of these species being present and the reasons for call identification difficulty is provided in the "Notes" section below.

Table 1 Microbats recorded in February 2012 using echolocation detection in the Greenvale study area.

◆ Denotes species positively identified from call data.

□ Denotes species probably present, but not reliably identified.

| No. bat calls identified | Date | |
|---------------------------------------|--------|--------|
| | 26-Feb | 27-Feb |
| <i>Chalinolobus gouldii</i> | ◆ | ◆ |
| <i>Chalinolobus nigrogriseus</i> | □ | □ |
| <i>Scoteanax rueppellii</i> | □ | □ |
| <i>Scotorepens balstoni</i> | □ | □ |
| <i>Scotorepens sanborni</i> | ◆ | ◆ |
| <i>Miniopterus orianae oceanensis</i> | ◆ | ◆ |
| <i>Mormopterus beccarii</i> | ◆ | ◆ |
| <i>Mormopterus ridei</i> | ◆ | |
| <i>Saccolaimus flaviventris</i> | ◆ | ◆ |

Microbat Echolocation Call Analysis

Client: AustralAsian Resource Consultants

Balance Job no.: AARC-1202

Project name/location: Greenvale Survey, 26-27 April 2012

Notes - species and calls not reliably identified

Chalinolobus nigrogriseus and *Scotorepens sanborni*

These two species produce calls that are very difficult to differentiate in most circumstances. Both have pulses with a steep, broad-band frequency sweep and curved base, with characteristic frequency (Fc) around 36-40kHz in *C. nigrogriseus* and 38-42kHz in *S. sanborni*. A number of calls had Fc in the 41-42kHz range, similar to reference calls recorded from *S. sanborni* at Weipa, so these were attributed positively to *S. sanborni*. The majority of calls, however, were around 38-40kHz and could have been either *S. sanborni* or *C. nigrogriseus*.

Scotorepens greyii also calls within this frequency range and is not distinguishable from *S. sanborni*; however, the study area is near the north-easterly geographic limits for *S. greyii*, so the likelihood of its presence is very low compared with *S. sanborni*, which is the more common species in the surrounding region.

Scoteanax rueppellii and *Scotorepens balstoni*

These species produce broad-band FM calls with steep, curved pulses. Fc overlaps significantly, with *S. rueppellii* calls at 32-36kHz and *S. balstoni* around 30-35kHz. Differentiation of the two species is unreliable in most calls, although *S. balstoni* pulses are generally steeper and often have a more abrupt terminal curve on the body. None of the calls recorded during this survey could be reliably attributed to one or other of these species, so both are listed as probably present.

References:

- Churchill, S. (2008). *Australian Bats*. Jacana Books, Allen & Unwin; Sydney.
- Corben, C. (2009). *AnalookW* Version 3.7w. Software for bat call analysis using ZCA data.
- Corben, C. (2011). *CFCread Storage ZCAIM interface* Version 4.3s. Software for converting Anabat data files to zero-crossing analysis files.
- Reardon, T. (2003). Standards in bat detector based surveys. *Australasian Bat Society Newsletter* **20**, 41-43.
- Reinhold, L., Law, B., Ford, G. and Pennay, M. (2001). Key to the bat calls of south-east Queensland and north-east New South Wales. Department of Natural Resources and Mines, Brisbane.
- van Dyck, S. and Strahan, R. (ed.) (2008). *The Mammals of Australia* (Third Edition); New Holland; Sydney.

Microbat Echolocation Call Analysis

Client: AustralAsian Resource Consultants

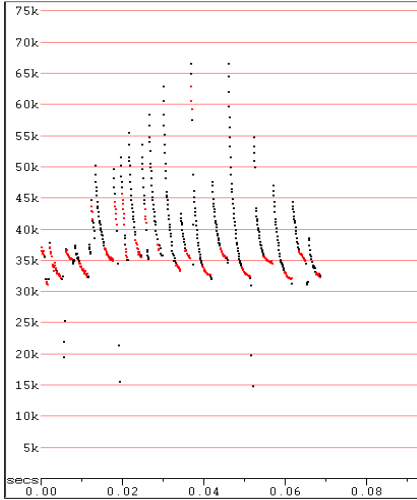
Balance Job no.: AARC-1202

Project name/location: Greenvale Survey, 26-27 April 2012

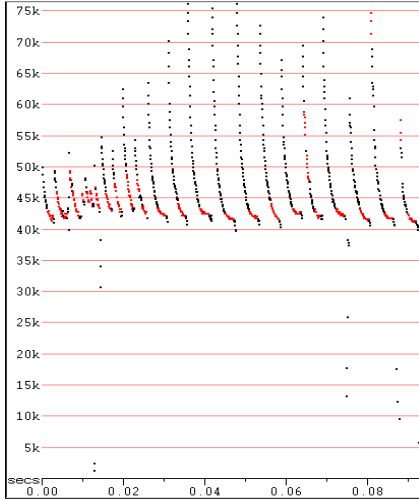
Sample calls from this survey:

Scale: 10 msec per tick; time between pulses removed (AnalogW F7 compressed mode)

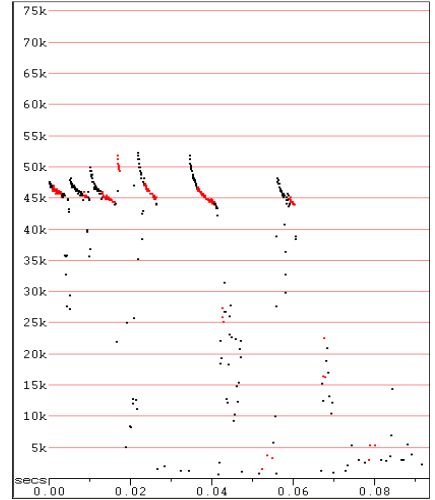
Species positively identified



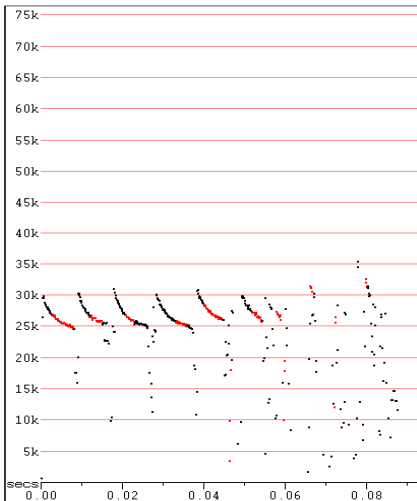
Chalinolobus gouldii



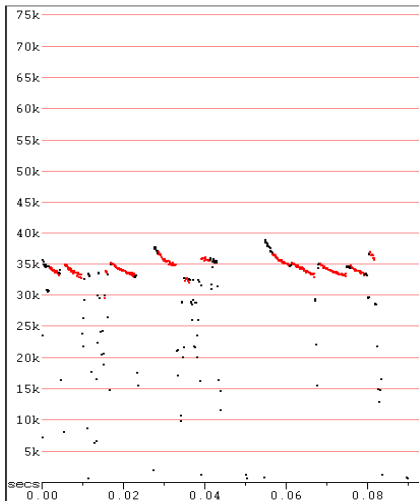
Scotorepens sanborni



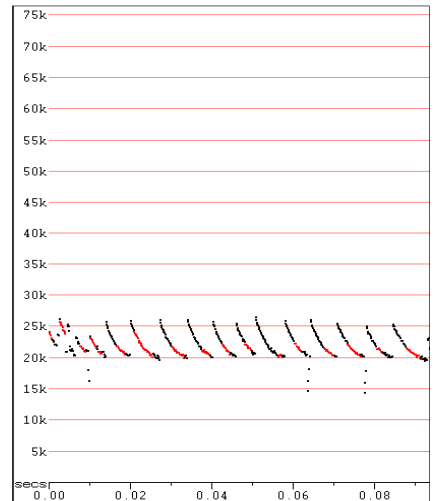
Minopterus orianae oceanensis



Mormopterus beccarii

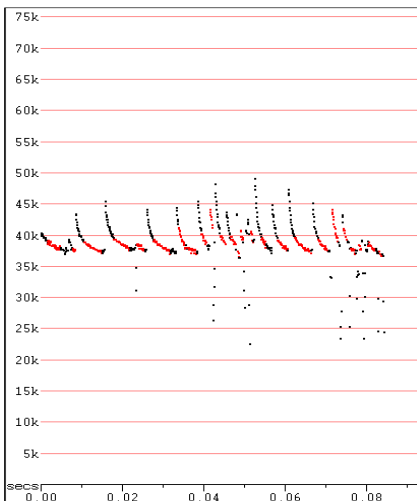


Mormopterus ridei

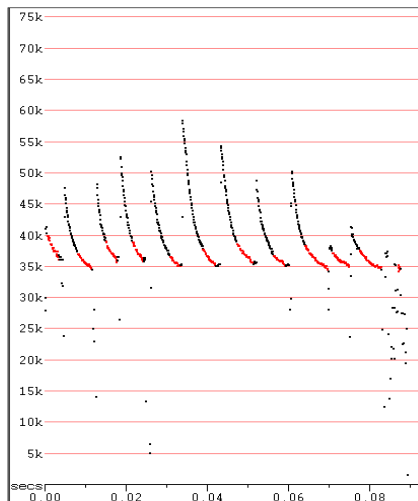


Saccolaimus flaviventris

Species NOT positively identified



Possibly *Chalinolobus nigrogriseus*



Probably *Scoteanax rueppellii* or *Scotorepens balstoni*



Microbat Call Identification Report

| | |
|--------------------------------------|-----------------------------------|
| Prepared for ("Client"): | AustralAsian Resource Consultants |
| Survey location/project name: | Greenvale |
| Survey dates: | 16-19 January 2013 |
| Client project reference: | |
| Job no.: | AARC1301 |
| Report date: | 25 March 2013 |

DISCLAIMER:

© Copyright – Balance! Environmental, ABN 75 795 804 356. This document and its content are copyright and may not be copied, reproduced or distributed (in whole or part) without the prior written permission of Balance! Environmental other than by the Client for the purposes authorised by Balance! Environmental ("Intended Purpose"). To the extent that the Intended Purpose requires the disclosure of this document and/or its content to a third party, the Client must procure such agreements, acknowledgements and undertakings as may be necessary to ensure that the third party does not copy, reproduce, or distribute this document and its content other than for the Intended Purpose. This disclaimer does not limit any rights Balance! Environmental may have under the Copyright Act 1968 (Cwlth).

The Client acknowledges that the Final Report is intended for the sole use of the Client, and only to be used for the Intended Purpose. Any representation or recommendation contained in the Final Report is made only to the Client. Balance! Environmental will not be liable for any loss or damage whatsoever arising from the use and/or reliance on the Final Report by any third party.

Methods

Data receipt and processing

Bat calls were recorded over four consecutive nights (22-25 August 2012) using Song Meter detectors (Wildlife Acoustics, Concord MA, USQ) and the SD data cards sent to Balance Environmental for analysis. Survey data were downloaded from the SD cards and converted to Anabat sequence files (zero-crossing analysis format) using Wildlife Acoustics' *Kaleidoscope* (version 0.1.14).

Zero-crossing analysis

The Anabat sequence files were viewed using *AnaLookW* (Corben 2009) and a representative sub-set of all observed call types were extracted for identification. Species identification was achieved manually by viewing the extracted call sonograms in *AnaLookW* and comparing them with reference calls from northern and central Queensland and/or with published call descriptions (e.g. Reinhold *et al.* 2001; Milne 2002; Pennay *et al.* 2004).

Species' identity was refined by considering probability of occurrence based on general distribution information (e.g. Churchill 2008; van Dyck & Strahan 2008) and/or online database records (e.g. Wildlife Online <http://www.ehp.qld.gov.au/wildlife/wildlife-online>; and the Atlas of Living Australia <http://www.ala.org.au>).

Reporting standard

The format and content of this report follows Australasian Bat Society standards for the interpretation and reporting of bat call data (Reardon 2003), available on-line at <http://www.ausbats.org.au/>.

Species nomenclature follows Churchill (2008).

Results

Data quantity and quality

A total of 1682 Anabat sequence files were generated for the four survey nights; however, data quantity varied considerably between detection sessions (i.e. between nights). Only 80 and 84 files were recorded for the first two nights at Lucknow, compared with more than 350 files for the third night at that locality. The final survey night, at Stenhouse Dam, yielded more than 1100 files.

Call quality was variable throughout, with many files containing only brief call sequences that could not be used for identification. There were, however, sufficient calls of good duration and quality to confirm the identity of some species.

Species recorded

At least ten species were recorded during this survey (see Table 1), with as many as seven others also present but unable to be reliably identified due to inter-specific call similarities. Reliability of identification and likelihood of presence for these species is discussed below Table 1.

Table 1. Microbat species recorded at Greenvale, 16-19 January 2013.

- ◆ = species positively identified from call data
- = species possibly present, but not reliably identified

| Location: | Lucknow | | | Stenhouse Dam |
|--|---------|------|------|---------------|
| Date: | 16/1 | 17/1 | 18/1 | 19/1 |
| No. sequence files: | 80 | 84 | 353 | 1165 |
| No. of calls identified: | 19 | 40 | 83 | 175 |
| SPECIES | | | | |
| <i>Chalinolobus gouldii</i> | □ | ◆ | ◆ | ◆ |
| <i>Chalinolobus nigrogriseus</i> | □ | □ | □ | □ |
| <i>Myotis macropus/Nyctophilus sp.</i> | | □ | ◆ | ◆ |
| <i>Scotorepens balstoni</i> | □ | | | □ |
| <i>Scotorepens greyii/S. sanborni</i> | □ | □ | □ | □ |
| <i>Scoteanax rueppellii</i> | □ | □ | □ | |
| <i>Vespadelus troughtoni</i> | | | ◆ | |
| <i>Miniopterus australis</i> | ◆ | ◆ | ◆ | ◆ |
| <i>Miniopterus orianae oceanensis</i> | ◆ | ◆ | ◆ | ◆ |
| <i>Chaerephon jobensis</i> | ◆ | ◆ | ◆ | ◆ |
| <i>Mormopterus beccarii</i> | ◆ | ◆ | ◆ | ◆ |
| <i>Mormopterus ridei</i> | | | | ◆ |
| <i>Saccolaimus flaviventris</i> | ◆ | ◆ | ◆ | ◆ |
| <i>Taphozous troughtoni</i> | | □ | □ | □ |

Discussion

Most calls were reliably attributed to known species, although several species that are likely to occur in the area have similar call characteristics and are difficult to differentiate using call data. These are discussed below.

Chalinolobus nigrogriseus and *Scotorepens greyii* / *Scotorepens sanborni*

Both of the *Scotorepens* species probably both occur in the study area, but it is not possible to reliably differentiate their calls. *Chalinolobus nigrogriseus* calls are also very similar to those of *Scotorepens* spp and it, too, probably occurs in the study area.

Virtually all of the observed calls, in the relevant frequency range, had pulse shapes intermediate between these three species so all are listed as probably present.

Myotis macropus and *Nyctophilus* species

These species' calls are virtually impossible to differentiate. Given the locations where these calls were recorded there is a strong chance that *M. macropus* was responsible for at least some of the calls. Up to three *Nyctophilus* species may also be present in the study area, including: *N. bifax*; *N. geoffroyi*; and *N. gouldii*.

Scotorepens balstoni and *Scoteanax rueppellii*

These species may both be present in the study area. Their calls can be difficult to distinguish from each other and also sometimes from those of *Chalinolobus gouldii* and other *Scotorepens* species. Numerous calls were positively identified to *C. gouldii* based on the frequency alternation that typifies that species; however, a few calls at 31-33 kHz had more erratic frequency variation and could have been from *S. balstoni*. Several calls around 34-36 kHz had mixed pulse characteristics and could have been either *S. balstoni* or *S. rueppellii*.

Taphozous troughtoni

Calls overlap in frequency (22-26 kHz) with those of *Mormopterus beccarii*; however, the latter species is generally differentiated on steeper, somewhat erratic pulse shapes, compared more uniform, almost-flat pulses of shorter duration in *T. troughtoni*. Most calls in the frequency range from this survey were positively identified to *M. beccarii*, but a number of calls on the last three nights had hints of the more typical *T. troughtoni* pulse shape so the species is listed as possible for those nights.

References

- Churchill, S. (2008). *Australian Bats*. Jacana Books, Allen & Unwin; Sydney.
- Corben, C. (2009). *AnalookW* Version 3.7w. Software for bat call analysis using ZCA data.
- Pennay, M., Law, B. and Reinhold, L. (2004). *Bat Calls of New South Wales*. Department of Environment and Conservation, Hurstville.
- Reardon, T. (2003). Standards in bat detector based surveys. *Australasian Bat Society Newsletter* **20**, 41-43.
- Reinhold, L., Law, B., Ford, G. and Pennay, M. (2001). *Key to the bat calls of south-east Queensland and north-east New South Wales*. Department of Natural Resources and Mines, Brisbane.
- van Dyck, S. and Strahan, R. (ed.) (2008). *The Mammals of Australia* (Third Edition). New Holland; Sydney.

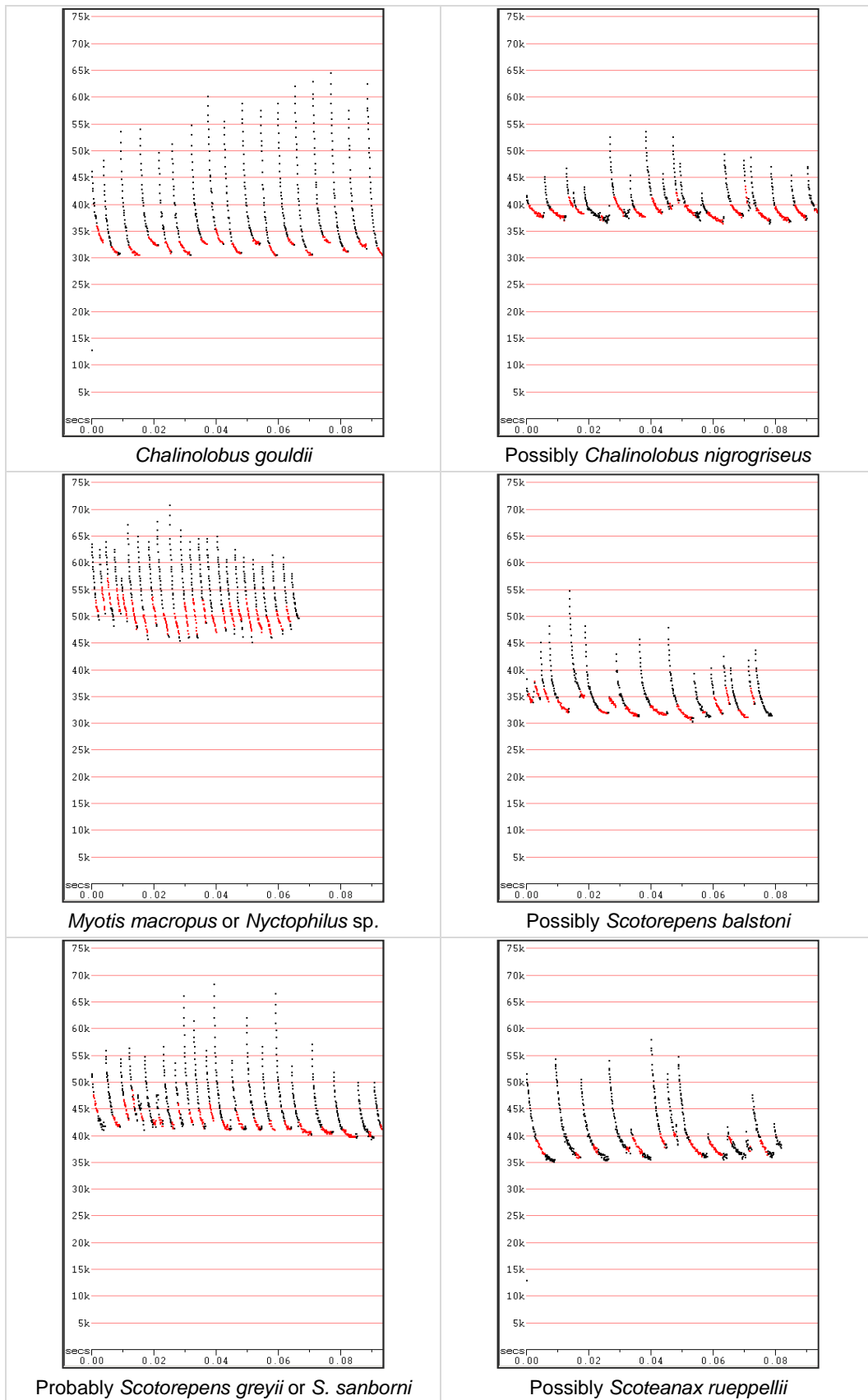


Figure 1 Representative call sequences recorded at Greenvale, 16-19 January 2013. (10msec per tick; time between pulses removed)

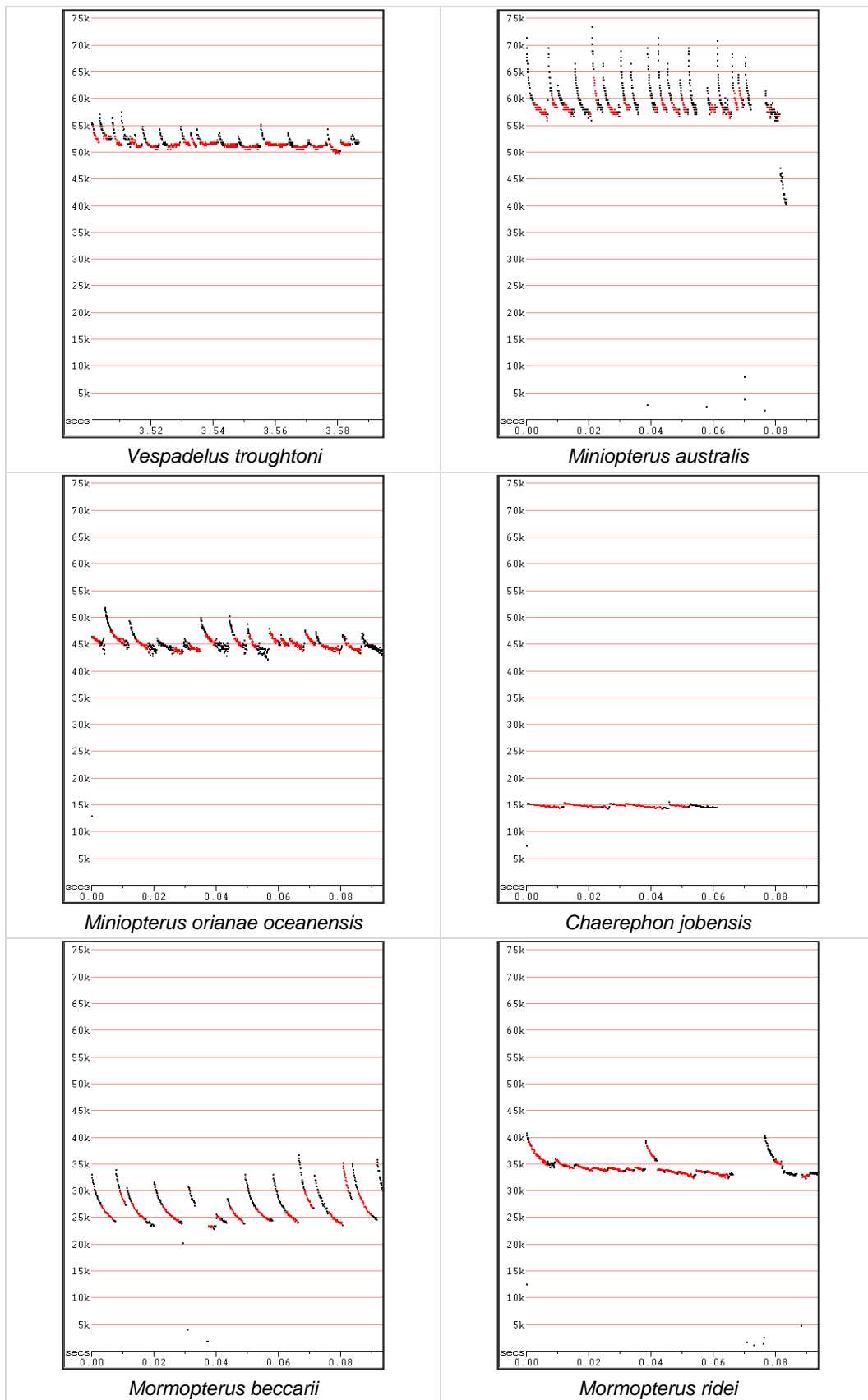


Figure 1 (cont.) Representative call sequences recorded at Greenvale, 16-19 January 2013.
(10msec per tick; time between pulses removed)

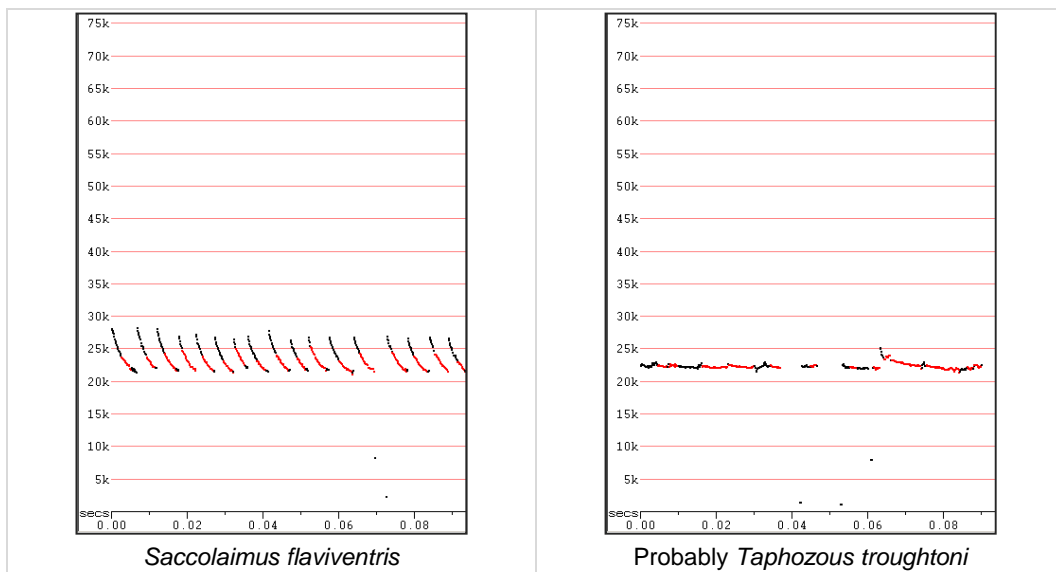


Figure 1 (cont.) Representative call sequences recorded at Greenvale, 16-19 January 2013.
(10msec per tick; time between pulses removed)



Microbat Call Identification Report

| | |
|--------------------------------------|------------------------------|
| Prepared for (“Client”): | AARC Environmental Solutions |
| Survey location/project name: | Greenvale area |
| Survey dates: | 22 May – 20 June 2018 |
| Client project reference: | Sconi project |
| Job no.: | AARC-1809 |
| Report date: | 6 July 2018 |

DISCLAIMER:

© Copyright – Balance! Environmental, ABN 75 795 804 356. This document and its content are copyright and may not be copied, reproduced or distributed (in whole or part) without the prior written permission of Balance! Environmental other than by the Client for the purposes authorised by Balance! Environmental (“Intended Purpose”). To the extent that the Intended Purpose requires the disclosure of this document and/or its content to a third party, the Client must procure such agreements, acknowledgements and undertakings as may be necessary to ensure that the third party does not copy, reproduce, or distribute this document and its content other than for the Intended Purpose. This disclaimer does not limit any rights Balance! Environmental may have under the Copyright Act 1968 (Cth).

The Client acknowledges that the Final Report is intended for the sole use of the Client, and only to be used for the Intended Purpose. Any representation or recommendation contained in the Final Report is made only to the Client. Balance! Environmental will not be liable for any loss or damage whatsoever arising from the use and/or reliance on the Final Report by any third party.

Methods

Survey summary

Bat-call monitoring was undertaken at 14 sites in three separate study areas (Greenvale – 4 sites; Lucknow – 4 sites; and Kokomo – 6 sites). Anabat Express detectors (Titley Scientific, Brisbane) were deployed for three or four consecutive nights at each site and set to record between sunset and sunrise each night.

Data received and post-processing

Balance! Environmental received 43 raw ZCA data files and accompanying log files from two Anabat Express units. These were converted to zero-crossing analysis bat-call sequence files (ZC files) using *AnalookW* (Version 4.2n; Corben 2017). This process yielded 20,330 ZC files.

Bat-call analysis and identification

Call analyses were performed using the Cluster Analysis function of *Kaleidoscope Pro*, which rapidly scanned the ZC files and automatically clustered detected bat-calls into groups with similar pulse-characteristics. All clusters were then manually scanned in spectrogram view and allocated either to single species or groups of difficult-to-differentiate species (“unresolved calls”).

Manual verification of call identities was based on comparison of call spectrograms and derived metrics with those of reference calls from northern Queensland and/or with published call descriptions (e.g. Reinhold *et al.* 2001; Milne 2002). Consideration was also given to the probability of species’ occurrence based on published distribution information (e.g. Churchill 2008; van Dyck *et al.* 2013) and on-line database records (e.g. <http://www.ala.org.au>).

Reporting standard

The format and content of this report follows Australasian Bat Society standards for the interpretation and reporting of bat call data (Reardon 2003), available on-line at <http://www.ausbats.org.au/>.

Species nomenclature follows Jackson & Groves (2015), who elevated the sub-genus names proposed by Reardon *et al.* (2008, 2014) for the *Mormopterus* free-tailed bats to genus level. New names used in this report include:

- *Ozimops lumsdenae* (Northern Free-tailed Bat) – formerly *M. beccarii* (Beccari’s Freetail Bat); and
- *O. ridei* (Ride’s Free-tailed Bat) – formerly *M. ridei* and *M.* ‘species 2’ (Eastern Freetail Bat).

Jackson and Groves (2015) also allocate the Large (Eastern) Bent-winged Bat, formerly *Miniopterus schreibersii*, to *M. oriana*.

Results & Discussion

The cluster analysis recognised 2296 bat calls and grouped them into 19 clusters. Verification of call identities in those clusters resulted in the positive allocation of 2097 calls to 12 species and one inseparable species pair (*Scotorepens greyii*/*S. sanborni*).

Almost half (1015) of the positively-identified calls were attributable to just two species (*Miniopterus australis* and *Chaerephon jobensis*), with the bulk of the remainder (784 calls) contributed by five other species (*Chalinolobus gouldii*, *S. greyii*/*S. sanborni*, *Vespadelus troughtoni*, *Miniopterus orianae* and *Ozimops ridei*).

The identities of the remaining 199 calls were unresolved, due to poor recording-quality and/or similarities in call characteristics of several species that may occur in the study area. These calls were allocated to the following species or groups:

- *Rhinolophus robertsi* – 4 calls;
- *Chalinolobus gouldii* / *Ozimops ridei*;
- *Chalinolobus nigrogriseus* / *Scotorepens greyii* / *S. sanborni*;
- *Chaerephon jobensis* / *Saccolaimus flaviventris*;
- *S. flaviventris* / *Ozimops lumsdenae*; and
- *O. lumsdenae* / *Taphozous troughtoni*.

The signals allocated to *R. robertsi* were very noisy and poorly-rendered in the spectrograms but fell within the relevant frequency range for the species (28-32 kHz) and appeared to represent the constant-frequency signals typical of horseshoe bats. It is, however, possible that these “calls” were from an unknown non-bat source.

The other unresolved call groups all contain species that were otherwise reliably identified from more typical calls. Where groups were identified, but group members were not also positively identified for a site, then those members are listed as “possible” in the results (**Table 1**).

Sample spectrograms of all identified call types are shown at **Appendix 1**.

References

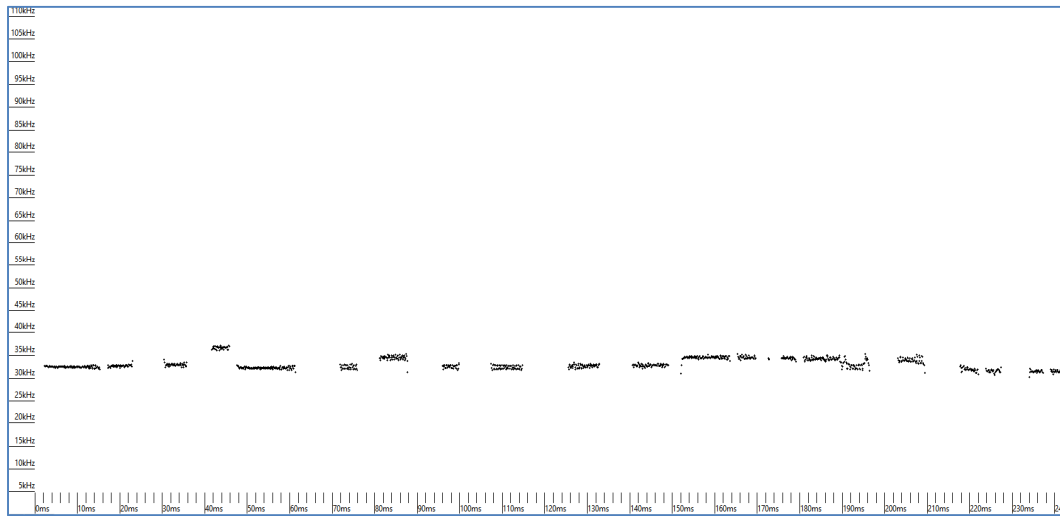
- Churchill, S. (2008). *Australian Bats*. Jacana Books, Allen & Unwin; Sydney.
- Corben, C. (2017). *AnaLookW for bat call analysis using ZCA. Version 4.2n*, 16 March 2017.
- Jackson, S. and Groves, C. (2015). *Taxonomy of Australian Mammals*. CSIRO Publishing, Melbourne.
- Milne, D.J. (2002). *Key to the bat calls of the Top End of the Northern Territory*. Technical Report No. 71; Parks and Wildlife Commission of the Northern Territory, Darwin.
- Reardon, T. (2003). Standards in bat detector based surveys. *Australasian Bat Society Newsletter* **20**, 41-43.
- Reardon, T., Adams, M., McKenzie, N. and Jenkins, P. (2008). A new species of Australian freetail bat *Mormopterus eleryi* sp. nov. (Chiroptera: Molossidae) and a taxonomic reappraisal of *M. norfolkensis* (Gray). *Zootaxa* 1875: 1-31.
- Reardon, T. B., McKenzie, N. L., Cooper, S. J. B., Appleton, B., Carthew, S. and Adams, M. (2014). A molecular and morphological investigation of species boundaries and phylogenetic relationships in Australian free-tailed bats *Mormopterus* (Chiroptera: Molossidae). *Aust. J. Zool.* **62**, 109–136.
- Reinhold, L., Law, B., Ford, G. and Pennay, M. (2001). *Key to the bat calls of south-east Queensland and north-east New South Wales*. Department of Natural Resources and Mines, Brisbane.
- van Dyck, S., Gynther, I. and Baker, A. (ed.) (2013). *Field Companion to the Mammals of Australia*. New Holland; Sydney.

Table 1 Microbat species recorded during the surveys at Greenvale, Kokomo and Lucknow (Sconi Project), May-June 2018.

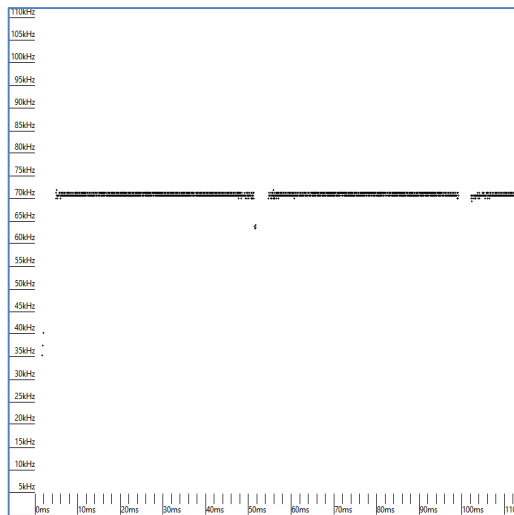
- ◆ = 'definite' - at least one call was attributed unequivocally to the species
- = 'possible' - calls like those of the species were recorded, but were not reliably identified

| Location: | Greenvale | | | | Kokomo | | | | | | Lucknow | | | |
|---|-----------|------|------|------|--------|-------|-------|-------|-------|-------|---------|-------|-------|-------|
| Site name: | GF01 | GF02 | GF03 | GF05 | KFa01 | KFa02 | KFa03 | KFa05 | KFa06 | KFa09 | LNF06 | LNF07 | LNF08 | LNF09 |
| Total calls identified: | 61 | 32 | 115 | 370 | 164 | 76 | 381 | 423 | 481 | 102 | 56 | 16 | 17 | 2 |
| <i>Rhinolophus megaphyllus</i> | | ◆ | ◆ | | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | | | | |
| <i>Rhinolophus robertsi</i> | | | | | | | □ | □ | | | | | | |
| <i>Chalinolobus gouldii</i> | | ◆ | ◆ | ◆ | ◆ | □ | ◆ | ◆ | ◆ | | ◆ | | ◆ | |
| <i>Chalinolobus nigrogriseus</i> | □ | | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | | |
| <i>Scotorepens greyii / S. sanborni</i> | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | | | ◆ |
| <i>Vespadelus troughtoni</i> | | | | ◆ | ◆ | | | | | | ◆ | | | |
| <i>Miniopterus australis</i> | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | | |
| <i>Miniopterus orianae oceanensis</i> | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | | ◆ | |
| <i>Austronomus australis</i> | | | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | |
| <i>Chaerephon jobensis</i> | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | | |
| <i>Ozimops lumsdenae</i> | ◆ | | ◆ | ◆ | ◆ | ◆ | | ◆ | ◆ | ◆ | ◆ | ◆ | | |
| <i>Ozimops ridei</i> | | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | | | |
| <i>Saccolaimus flaviventris</i> | ◆ | ◆ | ◆ | ◆ | □ | □ | | ◆ | ◆ | ◆ | ◆ | ◆ | | |
| <i>Taphozous troughtoni</i> | ◆ | | □ | ◆ | | | | ◆ | □ | ◆ | | | | |

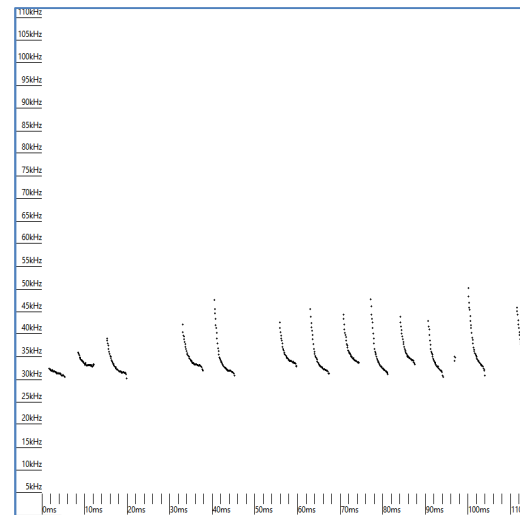
Appendix 1 Representative call sequences from the Sconi Project surveys, May-June 2018.
x-axis = 2 ms per tick-mark; time between pulses removed



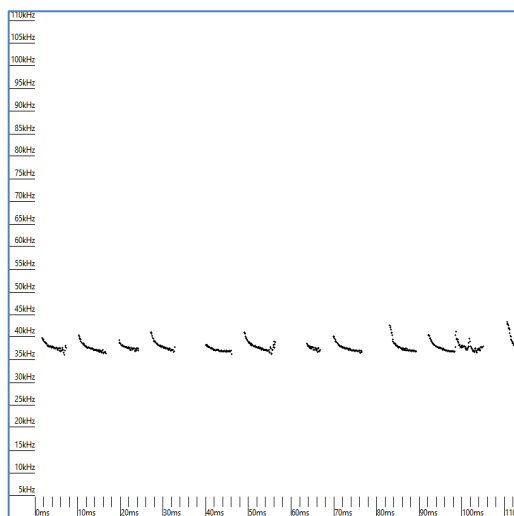
Possibly *Rhinolophus robertsi*



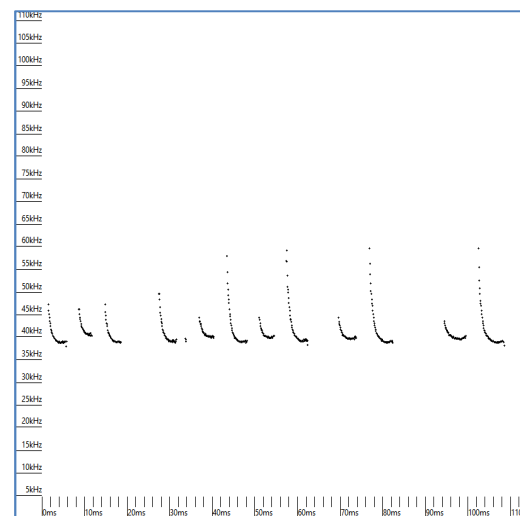
Rhinolophus megaphyllus



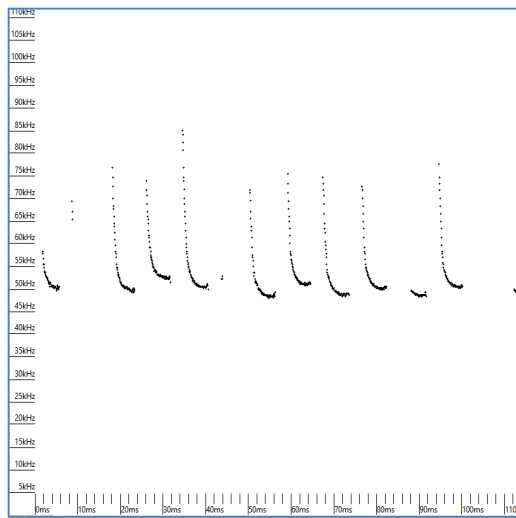
Chalinolobus gouldii



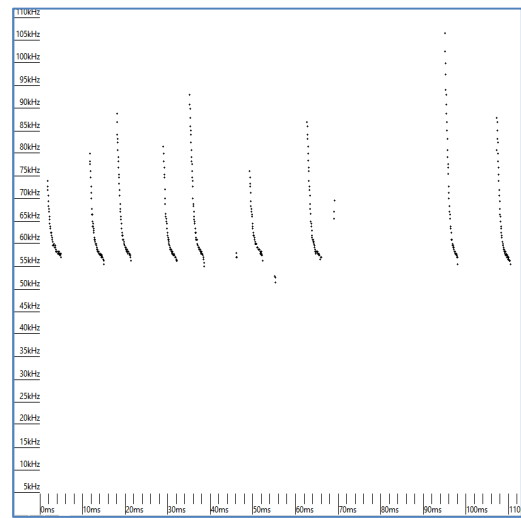
Chalinolobus nigrogriseus



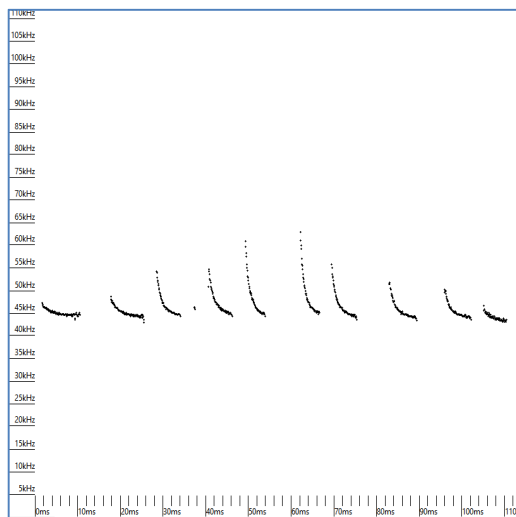
Scotorepens greyii / *S. sanborni*



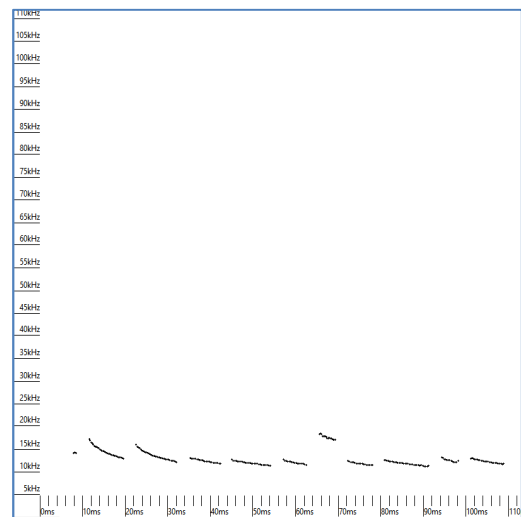
Vespadelus trougtoni



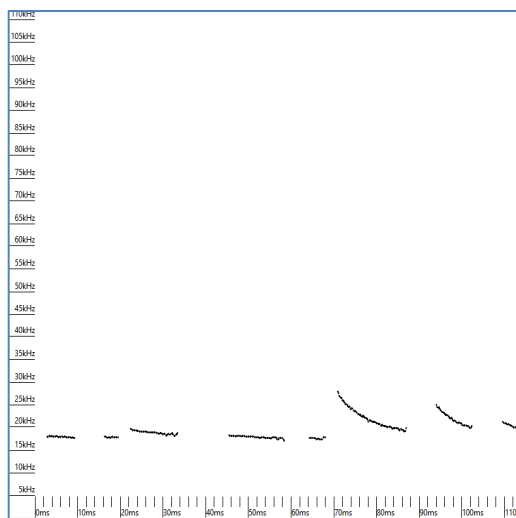
Minopterus australis



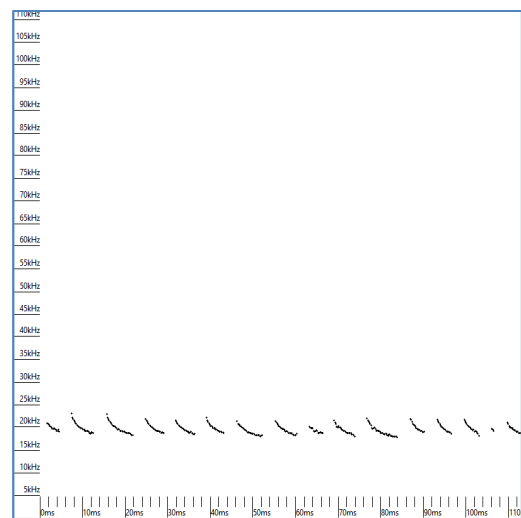
Minopterus orianae oceanensis



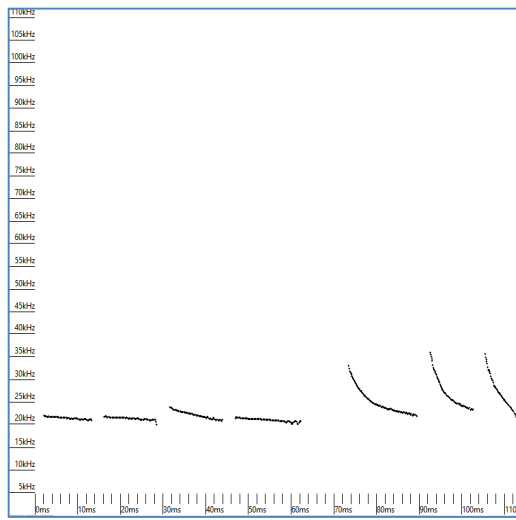
Austronomus australis



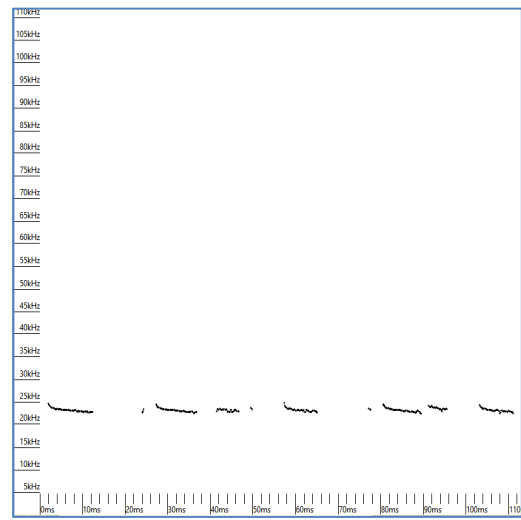
Chaerephon jobensis



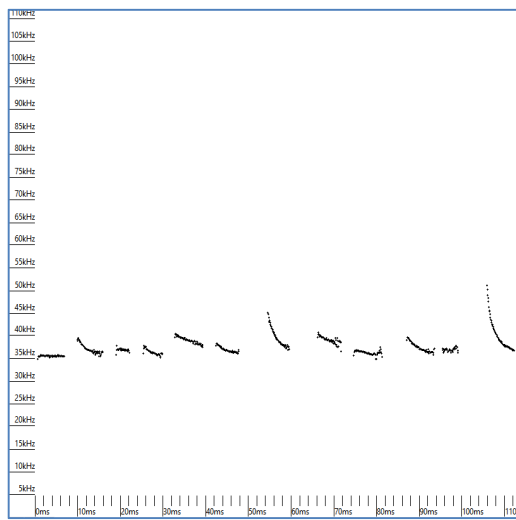
Saccolaimus flaviventris



Ozimops lumsdenae



Taphozous troughtoni



Ozimops ridei