



# APPENDIX P.

## Wetland Assessment Report



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Geochemical & Hydrobiological Solutions Pty Ltd

ABN 72 077 518 784

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Surface and Groundwater Investigations*

PO Box 1777  
Thuringowa, Qld, 4817, AUSTRALIA

Tel: +61 (0) 7 4725 3751  
Mob: +61 (0) 417 635 032

[info@candrconsulting.com.au](mailto:info@candrconsulting.com.au)  
[www.candrconsulting.com.au](http://www.candrconsulting.com.au)

## SOUTH ROCKHAMPTON LEVEE PROJECT

### Wetlands Aquatic Ecology Assessment

REPORT PREPARED FOR:  
AECOM Australia Pty Ltd

Date:  
April 2019



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A handwritten signature in black ink that reads "Chris Cuff".

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Dr Chris Cuff  
Director

12 April 2019

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Date

A handwritten signature in black ink that reads "Cecily Rasmussen".

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Dr Cecily Rasmussen  
Director

12 April 2019

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Date



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## SUMMARY OF RELEVANT INFORMATION

Project Title	South Rockhampton Levee – Wetlands Assessment
Property Description	Proposed levee development around the southern suburbs of Rockhampton, Central Queensland coast.
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Project Number	19019
Client's Details	
Nominated Representative	Rouven Lau
Title/Position	Associate Director – Environment
Company	AECOM
Postal Address	PO Box 5423, Townsville QLD 4810
Telephone	07 4729 5500
Fax:	07 4729 5599
Email	<a href="mailto:Rouven.Lau@aecom.com">Rouven.Lau@aecom.com</a>
Author's Details	
Primary Author	M. Knott
Qualifications	BSc (Hons)
Experience	<p>2004 – Research Assistant, NSW Fisheries</p> <p>2006-2010 – Researcher, The Australian Centre for Tropical Freshwater Research, James Cook University</p> <p>2010-ongoing – Senior Scientist/Manager, C&amp;R Consulting Pty Ltd</p>
Affiliations	Member of EIANZ (Committee Member NQ Division)

### DOCUMENT CONTROL

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Draft 1	M. Knott	28/03/2019	Dr. C. Rasmussen (C&R) Dr. C. Cuff (C&R)	29/03/2019
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## 1. INTRODUCTION

The South Rockhampton Flood Levee (SRFL) project is a significant regional development to mitigate flooding across the southern suburbs of Rockhampton within the Fitzroy Basin, on the Central Queensland coast (Figure 1). These suburbs have flooded regularly in recent years including in 2011, 2013 and 2017.

The proposed levee is comprised of earth embankment, crib wall, flood wall and temporary levee structures stretching for a distance of 8.74km through Rockhampton, Depot Hill and Port Curtis, encompassed by the Yeppen Floodplain (Figure 2). The levee is designed to withstand a 1% Annual Exceedance Probability (AEP) flood event with 600mm freeboard. While several wetlands are present in the area, three different wetlands are immediately adjacent to or intersected by the proposed SRFL alignment including:

- Fiddes Street Wetland;
- Jellicoe Street Wetland; and
- Gavial Swamp Lagoon.

AECOM have been engaged by Rockhampton Regional Council (RRC) to undertake the environmental works/studies required to support an Infrastructure Designation for the SRFL. AECOM have completed a detailed terrestrial flora (as well as marine plants) and fauna investigation across the site (AECOM, 2019) as well as detailed hydrology studies (AECOM, 2019a). C&R Consulting Pty Ltd (C&R) have been commissioned by AECOM to undertake a desktop assessment of the aquatic ecology values of the three wetlands associated with the project as well as detailing the baseline characteristics of each wetland, including wetland function, to determine likely impacts from the development of the SRFL.

### 1.1 SCOPE

This document presents an assessment of the aquatic ecology values and the function of three wetlands across the project site and the potential impacts from the proposed development by:

- Undertaking a desktop review of all publicly available information on the wetlands associated with the site;
- Detailing the background setting of the area including climate, soils, aquatic fauna and flora as well as outlining the aquatic ecology values associated with the wetlands;
- Assessing the characteristics of each wetland and their ecological function within the overall downstream Fitzroy River catchment; and
- Determining the potential impacts from the proposed development and the mitigation measures to be adopted.

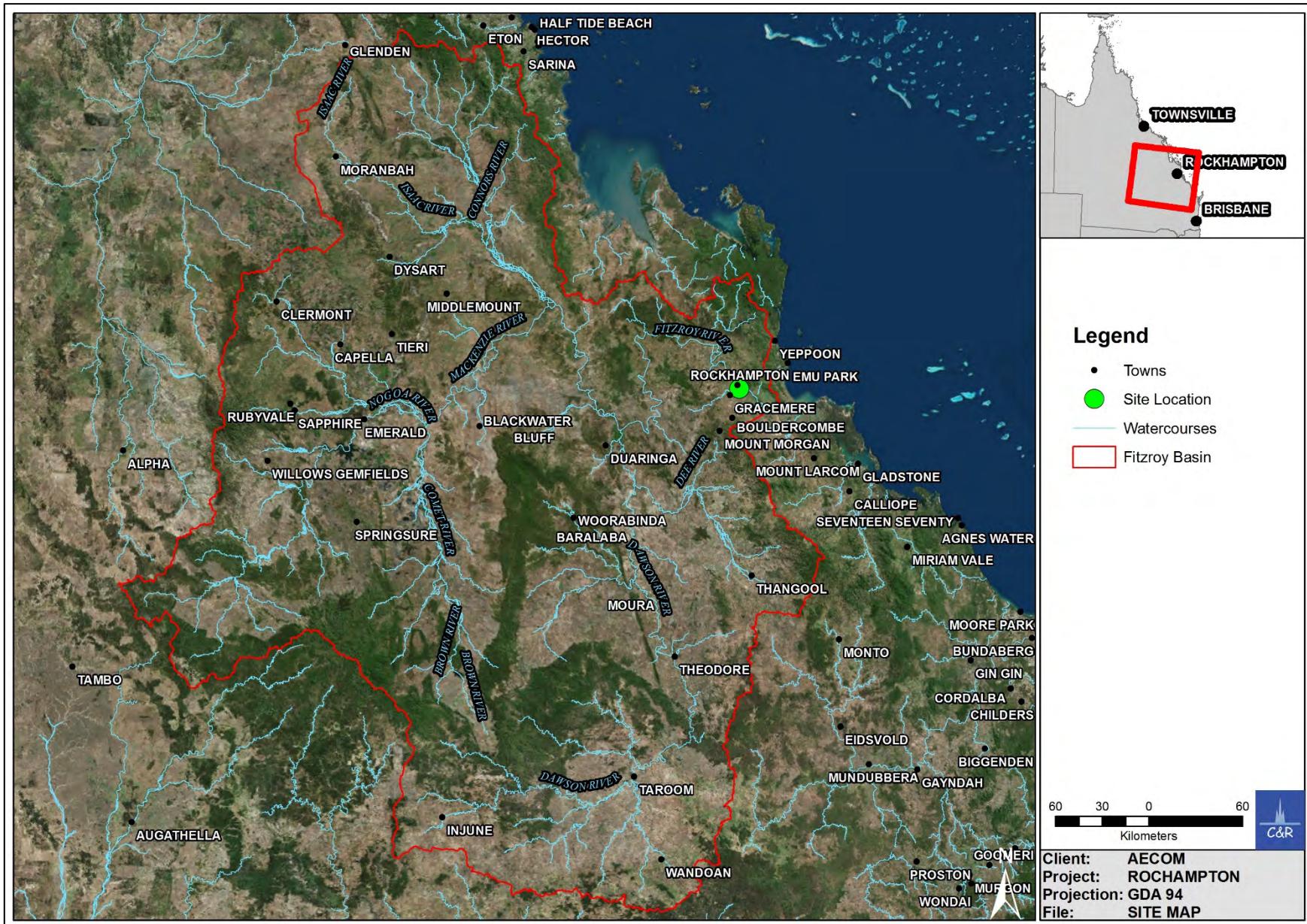


Figure 1: Fitzroy Basin on the central Queensland coast

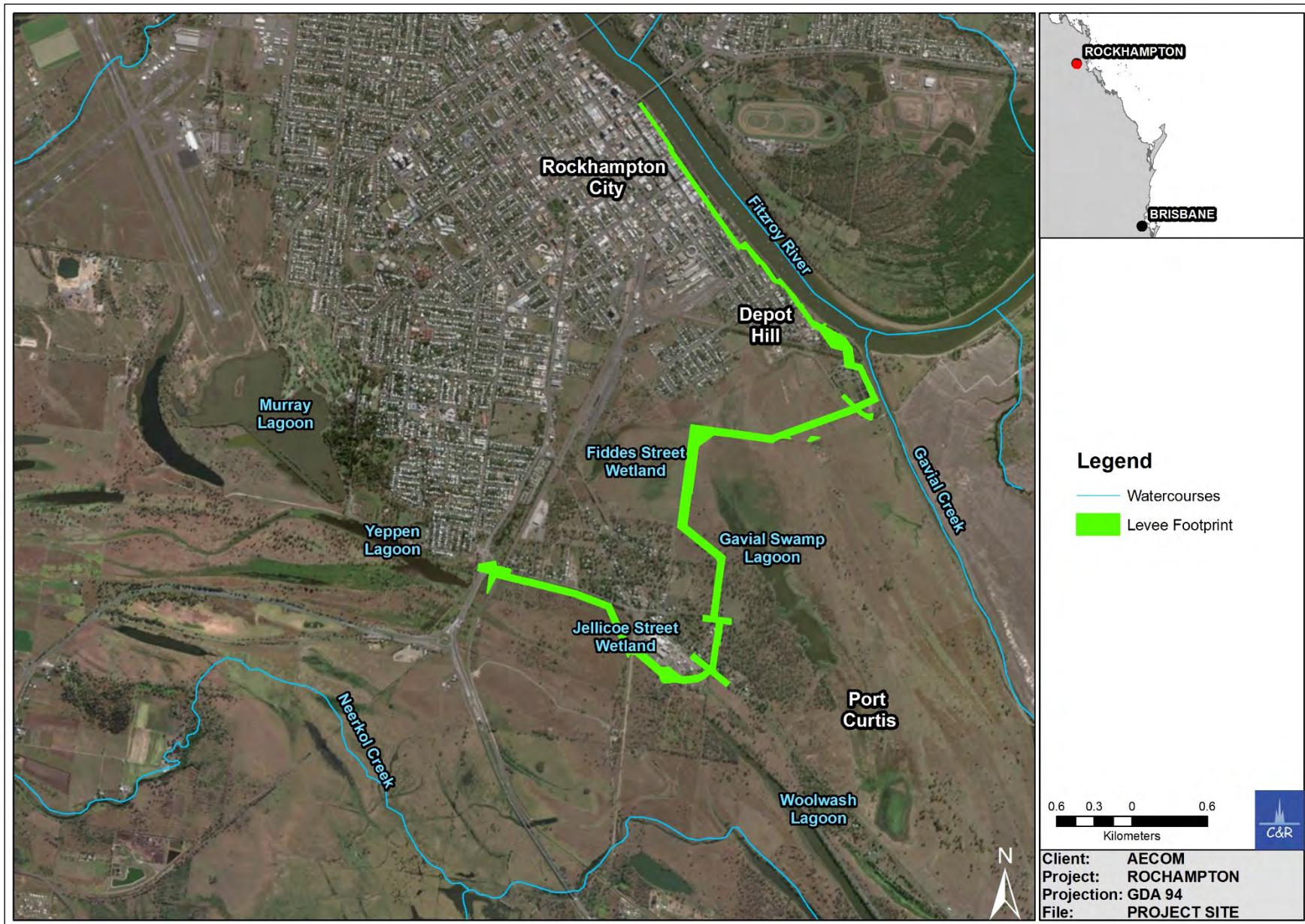


Figure 2: Location of the proposed levee in relation to major drainage features and Rockhampton suburbs



## 2. METHODS

### 2.1 LITERATURE REVIEW

A literature review was conducted of all available studies that have previously assessed aquatic ecology and freshwater wetland ecosystems within the region. Information collected during the literature review on each component of the study is discussed in a regional and ecological context. This assists in determining the background (existing) aquatic ecological processes across the project site. The determination of these processes and the potential connectivity of the project site to other areas must be considered before the implications of the proposed activities on the regional aquatic environments can be adequately assessed.

### 2.2 DATABASE SEARCHES

Database searches for this study targeted wetland communities (flora and fauna) previously documented in the area. Database searches included the EPBC Protected Matters Tool (2019), which targets *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) protected species and communities, and Wildlife Online (2019) which targets *Nature Conservation Act 1992* (NC Act) protected species and identifies potential pests. Internationally and Nationally Important Wetlands relevant to the project site were searched via the Directory of Important Wetlands in Australia, using the Commonwealth Department of Environmental and Energy (DoEE) website. The DES map of referable wetlands was searched using the DES website and Queensland Globe (2019).

The full database search reports, including the areas searched, are provided in Appendix 1.

### 2.3 AERIAL PHOTOGRAPHY REVIEW

Historic aerial photographs of the region as well as the most up to date and finest scale Geoscience Australia topographic map (Rockhampton – 1:100,000 and Ridgeland – 1:100,000) were reviewed for the purposes of determining and characterising potential aquatic habitats present and changes in these habitats across years and seasons.

## 3. BACKGROUND SETTING

The Fitzroy Basin has the largest catchment on the east coast of Australia, covering an area of approximately 142,665 km<sup>2</sup>. The basin includes six major sub-basins:

- Isaac/Connors;
- Nogoa;
- Comet;
- Mackenzie;
- Dawson; and
- Fitzroy.

The project site lies in the south/central tributaries of the Fitzroy Sub-basin, within the Yeppen Floodplain between the upper Fitzroy River estuary and Neerkol Creek (Figure 2). Adjacent to the project site, the Fitzroy River is a tidal estuary with the Fitzroy River Barrage (a man-made structure separating freshwater and estuarine waters within the Fitzroy River) located >2km further upstream. Despite this, Neerkol Creek and other small drainage lines that enter the estuary and potentially recharge wetlands throughout the Yeppen Floodplain are freshwater systems.

The majority of the Fitzroy River catchment area has been historically cleared for farming practices although the upper catchments of the targeted wetlands are strongly influenced by urban and industrial runoff as well as grazing.

### 3.1 CLIMATE

The climate of the Rockhampton region is warm and humid with hot summers. The annual mean maximum and minimum temperatures are 28.4°C and 16.7°C, respectively (<http://www.bom.gov.au/climate/data/>). Mean monthly maximum temperature ranges from 23.2°C in July to 32.2°C in December, while the mean monthly minimum temperatures range from 22.2°C in January and February to 9.7°C in July (Figure 3).

The region is characterised by distinct wet and dry seasons with rainfall patterns dominated by intense rainfall events throughout the summer months of each year (wet season; Figure 3). These rainfall events are often highly variable in their spatial and temporal distribution, with the majority of the rain falling in distinct, spatially separated cells across the landscape. Mean annual rainfall for the region is 815.1 mm, based on nearly 80 years of data (BOM weather station #39083; <http://www.bom.gov.au/climate/data/>).

Generally, little rainfall is experienced throughout the dry season with the exception of an occasional storm. Approximately 26% of the yearly total falls between May and October (inclusive). Evaporation tends to exceed rainfall for most days of the year, with the exception of intense rainfall events. The extended dry season causes baking and crusting of surface soils, greatly reducing infiltration unless suitable pre-wetting has been provided by gentle rain prior to the wet season. If gentle pre-wetting rains have not occurred prior to the onset of the wet season, >90% of the initial rainfall event can eventuate as runoff throughout catchments, reporting to waterways. This increased runoff has the potential to increase the volume of sediments delivered to waterways and subsequently results in high sediment movement along watercourses (Siriwardena *et al.*, 2006).

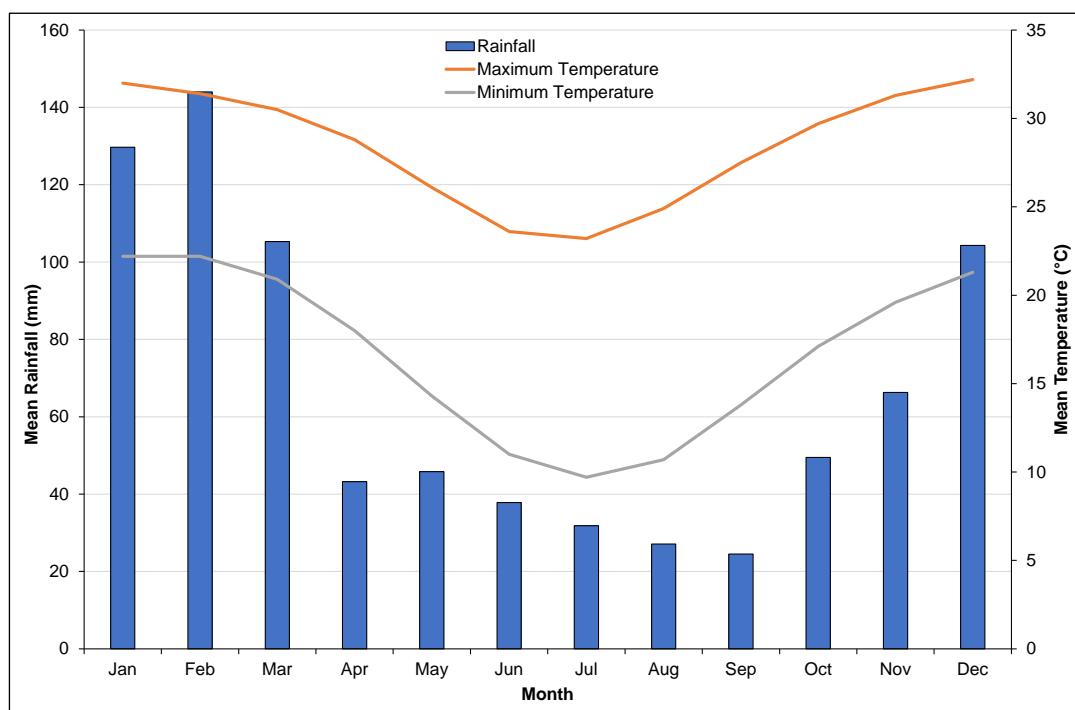


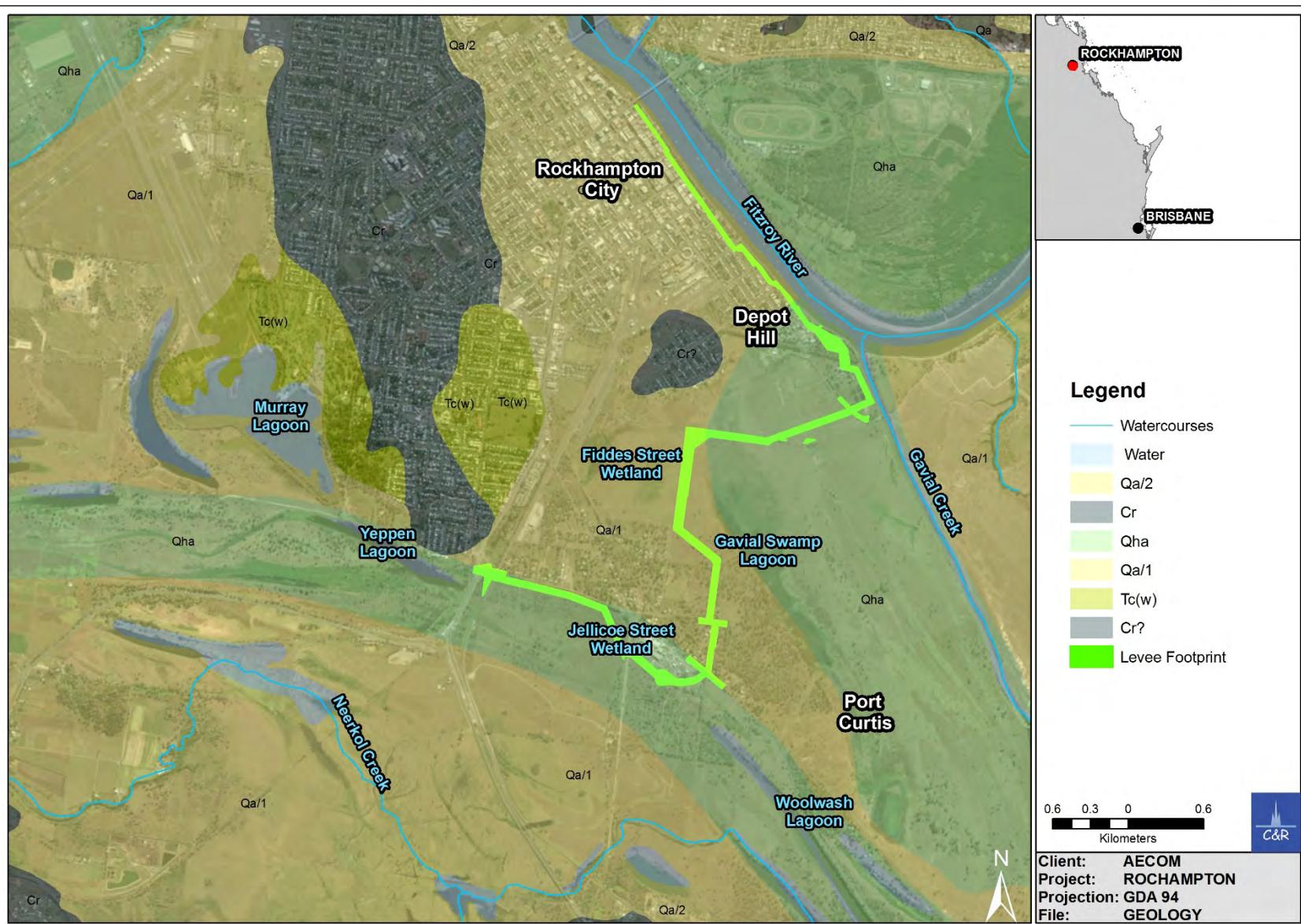
Figure 3: Mean monthly rainfall and temperature patterns (BOM, 2019)

### 3.2 SOILS

The Atlas of Australian Soils describes the soils and landform of the project site as:

*"Alluvial plains with prior stream channels, billabongs, and numerous small uneven and broken rises, ridges, and depressions: chief soils are grey and dark cracking clays with weak gilgai formation. Minor areas of many other soils occur on recent formations, on terraces and marginal slopes are likely. Layered soil materials may be common."*

In broad terms the soils are described as Grey self-mulching cracking clays underlain by grey/mottled clay. These cracking clays (when cracked) are relatively permeable creating connectivity between overlying surface waters and the associated shallow alluvial aquifers known to be prevalent throughout the region (Pearce & Hansen, 2006). Therefore, the open waterbodies and billabongs are likely to be exposed expressions of alluvial groundwater which are either connected to current stream/river channels or are associated with a vast array of paleo-channels easily observed within the reviewed aerial imagery and associated surficial geology/soil layers (refer to Figure 4).



**Figure 4:** Geological units associated within the alluvium throughout the Yeppen Floodplain where Qha = Clay, silt, and gravel-active stream channel and low terraces; Qa/1 = Clay, silt, sand, gravel-intermediate terraces of floodplain alluvium; and Qa/2 = Clay, silt, sand, gravel-highest terraces of floodplain alluvium

### 3.3 ALLUVIAL AQUIFERS

The Fitzroy Sub-basin encompasses nine hydrogeological units, including:

- Alluvial sediments;
- Tertiary sediments; and
- Seven fractured rock aquifers overlain by Quaternary alluvial deposits (Yarrol Province, Wandilla Province, Connors-Auburn Province, Gogango Overfold Zone, Bowen Basin, Permo-Triassic Intrusives, and Mulgildie Basin (Pearce & Hansen, 2006).

The alluvial deposits, associated with the Quaternary drainage system (prefixed by Q in Figure 4), are extensive throughout the floodplains associated with the project site, although aquifers with the greatest yield are generally close to the main river channel (Pearce & Hansen, 2006). The alluvium across the project site is predominantly clay with isolated sand bodies. The depth of the base alluvium is less than 35m (Pearce & Hansen, 2006; Figure 4).

Alluvial aquifers within the floodplain generally have limited yield as they are typically unconfined (associated with historic paleo-channels) and probably ephemeral (Pearce & Hansen, 2006). Water level within the alluvium typically range from 5 to 15m below ground level, although some floodplain aquifers have been recorded at <5m depth (Pearce & Hansen, 2006). In these circumstances, the open waterbodies and billabongs are likely to be exposed expressions of alluvial groundwater.

### 3.4 AQUATIC FAUNA & FLORA

#### 3.4.1 MACROINVERTEBRATE COMMUNITIES

Macroinvertebrate assemblages throughout the Fitzroy Basin are reasonably diverse with a past study of communities throughout the major drainages identifying over 70 families (Duvenvoorden & Roberts, 1997). Duvenvoorden & Roberts (1997) found the most prevalent taxa to be from the following Orders:

- Bivalvia (mussels);
- Coleoptera (beetles);
- Decapoda (shrimps and crayfish);
- Diptera (true flies);
- Ephemeroptera (mayflies);
- Gastropoda (snails);
- Hemiptera (true bugs);
- Isopoda (shrimp-like taxa);
- Odonata (dragon and damsel flies);
- Trichoptera (caddis flies).

The Duvenvoorden & Roberts (1997) study assessed both riverine and off-channel wetland habitats, finding that the vegetated wetlands presented a higher diversity (generally >30 families) and abundance of macroinvertebrate assemblages compared to riverine habitats. However, artificially impounded waters within the region have typically been known to provide significantly lower taxonomic richness and abundance, with macroinvertebrate communities inhabiting such systems generally consistent with families tolerant of environmental change (Duvenvoorden *et al.*, 2000). This is likely related to the altered hydrology within the impounded systems creating highly variable pool habitats.

### 3.4.2 FISH COMMUNITIES

Thirty six fish species are known to inhabit the freshwater reaches of the Fitzroy River (Berghuis & Long, 1999; Long & Meager, 2000; Marsden & Power, 2007; Stuart *et al.*, 2007; EHP, 2011; GHD, 2015). Of these, EHP (2011) identified 23 species inhabiting floodplain waterholes (Table 1). Two species of catadromous fish and five species of amphidromous fish inhabit these systems with the remainder considered potadromous (Table 1).

Catadromous fish migrate from freshwater systems down river to coastal waters to spawn. Amphidromous fish migrate between freshwater and salt water systems at some stage of their lifecycle, not related to breeding, while potadromous fish migrate through freshwater systems to complete their lifecycle (i.e. move from off-channel wetlands to riverine/creek habitats when they become adults or move into off-channel wetlands to breed).

The presence of migratory fish species inhabiting off-channel wetlands within the lower Fitzroy Sub-basin infers the importance of connectivity of such systems to adjacent riverine habitats during the wet season when most species mobilise.

The two species of introduced fish inhabiting off-channel waterholes within the lower Fitzroy Sub-basin should also be noted (Table 1). Both introduced species thrive in impounded waters where they are generally able to out compete native species through increased tolerance to environmental fluctuations and increased reproductive success.

**Table 1: Fish species utilising off-channel waterholes in the lower Fitzroy Sub-basin (EHP, 2011)**

Family	Species	Common name
<b>Catadromous</b>		
Anguillidae	<i>Anguilla reinhardtii</i>	Marbled Eel
Latidae	<i>Lates calcarifer</i>	Barramundi
<b>Amphidromous</b>		
Ariidae	<i>Arius graeffei</i>	Lesser Salmon Catfish
Belonidae	<i>Strongylura krefftii</i>	Freshwater Longtom
Hemiramphidae	<i>Arrhamphus sclerolepis</i>	Snub-nosed Garfish
Megalopidae	<i>Megalops cyprinoides</i>	Tarpon
Mugilidae	<i>Mugil cephalus</i>	Sea Mullet
<b>Potadromous</b>		
Ambassidae	<i>Ambassis agassizii</i>	Agassiz's Glassfish
Apogonidae	<i>Glossamia aprion</i>	Mouth Almighty
Atherinidae	<i>Craterocephalus stercusmuscarum</i>	Fly-specked Hardyhead
Clupeidae	<i>Nematolosa erebi</i>	Bony Bream
Cyprinidae	<i>Carassius auratus</i>	Goldfish**
Eleotridae	<i>Hypseleotris compressor</i>	Empire Gudgeon
	<i>Hypseleotris klunzingeri</i>	Western Carp Gudgeon
	<i>Hypseleotris sp.</i>	Midgley's Carp Gudgeon
	<i>Mogurnda adspersa</i>	Purple-spotted Gudgeon
	<i>Oxyeleotris lineolata</i>	Sleepy Cod
Melanotaeniidae	<i>Melanotaenia splendida splendida</i>	Eastern Rainbowfish

Family	Species	Common name
Percichthyidae	<i>Macquaria ambigua oriens</i>	Yellowbelly
Plotosidae	<i>Tandanus tandanus</i>	Freshwater Catfish
Poeciliidae	<i>Poecilia reticulata**</i>	Guppy**
Terapontidae	<i>Amniataba percoides</i>	Barred Grunter
	<i>Leiopotherapon unicolor</i>	Spangled Perch

\*\*Introduced species.

### 3.4.2.1 Listed Fish Species

The Murray Cod (*Maccullochella peelii*) has been identified within the broader region (AECOM, 2019). This species is listed as Vulnerable under the EPBC Act. Murray Cod are considered a main-channel specialist preferring riverine habitats over off-channel waterholes/wetlands (Koehn, 1997). The species use of floodplain habitats is limited with juveniles (<1yr old) known to settle in main river channels, developing home ranges of <5km in length (Koehn *et al.*, 2009). Based on the known habitat preferences of the Murray Cod it is unlikely that the species would utilise any of the three wetlands occurring across the project site.

### 3.4.3 AQUATIC FLORA COMMUNITIES

Freshwater macrophyte communities throughout the Fitzroy Basin are considered reasonably diverse with a total of one hundred and nine (109) species known to inhabit the greater catchment area (Duivenvoorden, 1992). However, individual reach diversity is relatively low, ranging from two to eleven species (Duivenvoorden, 1992; C&R, 2018). Generally, off-channel wetlands and impoundments recorded a greater diversity and abundance of macrophytes (C&R, 2018). This is likely related to the increased permanency of water in otherwise ephemeral systems and the reduced flows/sediment movement experienced in such habitats, although impoundments with high suspended solids loads often recorded lower macrophyte diversity (Duivenvoorden, 1992; C&R, 2018).

Macrophyte species commonly recorded in off-channel wetlands throughout the Fitzroy River include:

- *Nymphaea gigantea*;
- *Nymphoides indica*;
- *Azolla pinnata*;
- *Potamogeton crispus*;
- *Hydrilla verticillata*;
- *Myriophyllum verrucosum*;
- *Vallisneria gigantea*;
- *Persicaria attenuate*;
- *Ludwigia peploides*; and
- *Polygonum attenuatum* (Duivenvoorden, 1992, C&R, 2018a).

The majority of macrophytes inhabiting these systems use the shallow margins or grow as emergents along stable banks.

### 3.4.4 TURTLE COMMUNITIES

There are six species of freshwater turtle known to occur within the Fitzroy Basin (Legler & Cann, 1980). The literature review found two protected species of freshwater turtle (White-throated Snapping Turtle and the Fitzroy River Turtle) within the main trunk of the Fitzroy River (EPBC, 2019; Wildlife Online, 2019).

The most common freshwater turtle known to inhabit off-channel wetlands within the Fitzroy Basin is the Krefft's Turtle (*Emydura macquarii krefftii*) (C&R, 2018a). These turtles are very common throughout eastern Australia (Limpus *et al.* 2006). The species is not listed under the NC Act.

Krefft's Turtle has the ability to lay up to 30 eggs each year during the dry season (Georges, 1983). The eggs are buried on river/creek/wetland banks and hatch out at the end of the dry season (Georges, 1983). This hatching period ensures the juvenile turtles can target the increased abundance of food with the onset of the wet season each year, thereby increasing each turtle's chances of survival.

#### 3.4.4.1 Listed Turtle Species

Two freshwater turtle species listed under the NC Act have been recorded within the Fitzroy River catchment area; (1) the Fitzroy River Turtle (*Rheodytes leukops*) and (2) the White-throated Snapping Turtle (*Elseya albogula*). These species are listed as vulnerable and endangered (respectively) and are endemic to the Fitzroy River catchment.

Although there is limited information on the life history traits of the White-throated Snapping Turtle, both protected species occupy similar habitats and are known to occur together. The Fitzroy River Turtle is known to only have small home ranges, generally less than 500m (Tucker *et al.*, 2001), suggesting the individuals located within the freshwater reaches of the Fitzroy River would not venture into the project site (which is located >2km downstream of the Fitzroy River Barrage). Further, the Fitzroy River Turtle is known to inhabit large riffle zones near deeper, permanent pools (Cann, 1998; Tucker *et al.*, 2001).

The lack of preferred habitat combined with the highly ephemeral nature of the wetlands across the study area suggests there are no preferred habitats of the Fitzroy River Turtle or the White-throated Snapping Turtle within the project site. It is therefore unlikely that either species would utilise the three wetlands investigated for this study.

## 3.5 AQUATIC ECOLOGY VALUES

The Environmental Protection (Water) Policy 2009 (EPP) outlines the framework for determining the environmental values of a catchment/watercourse. In accordance with this framework, the Department of Environment and Heritage Protection (EHP) defined the environment values of concern for the Fitzroy River Sub-basin (WQ1305; Appendix 2) in 2011 (EHP, 2011a). This document has recently been reviewed with a draft revision developed by the Department of Environment and Science in 2017 (Newham *et al.*, 2017). Under this revision, the project site is located in the Fitzroy south/central tributaries region (on the floodplain associated with the upper estuary) with several environmental values identified as relevant, including:

- Aquatic ecological values (slightly to moderately disturbed);
- Agricultural purposes (i.e. irrigation, farm supply and stock watering);
- Aquaculture;
- Human consumer;
- Primary recreation;
- Secondary recreation;
- Visual recreation;

- Drinking water;
- Industrial use; and,
- Cultural and spiritual values (EPP).

Any water quality objectives (WQOs) discussed for the project must ensure the protection of the environmental values outlined above. WQOs can include physico-chemical, biological (e.g. macroinvertebrate and fish) as well as riparian parameters to ensure the conservation of environmental values in both surface and ground water flows.

Note; none of the three wetlands intersected by the proposed levee are mapped as High Ecological Value (HEV) waters (refer to Appendix 2).

### 3.6 PROPOSED LEVEE DESIGN

The design of the levee changes based on the location along the alignment. For the sections of the levee associated with the wetlands targeted by this assessment, a vegetated earthen embankment design with an embedded mild steel sheet piles levee wall is proposed (Figure 5). The structure will be over 30m wide, with a maximum height of <6m above ground level (Figure 5). The sub-surface key will extend to approximately 1m below ground level to limit any influence on alluvial aquifers (Figure 5).

The levee will also have additional design measures (refer to Appendix 3) to limit changes in natural flows and also reduce internal flooding. These include:

- One-way culverts (actual design not finalised) placed at various locations to mimic the current flow regime as experienced during localised rainfall/flow events thus allowing recharge of downstream wetlands. These culverts will shut when external flood waters exceed the appropriate height; and
- Pumping stations that will automatically begin removing water from the internal drainage area once flood heights exceed the designed internal height (refer to AECOM, 2019a for further discussion on these measures).

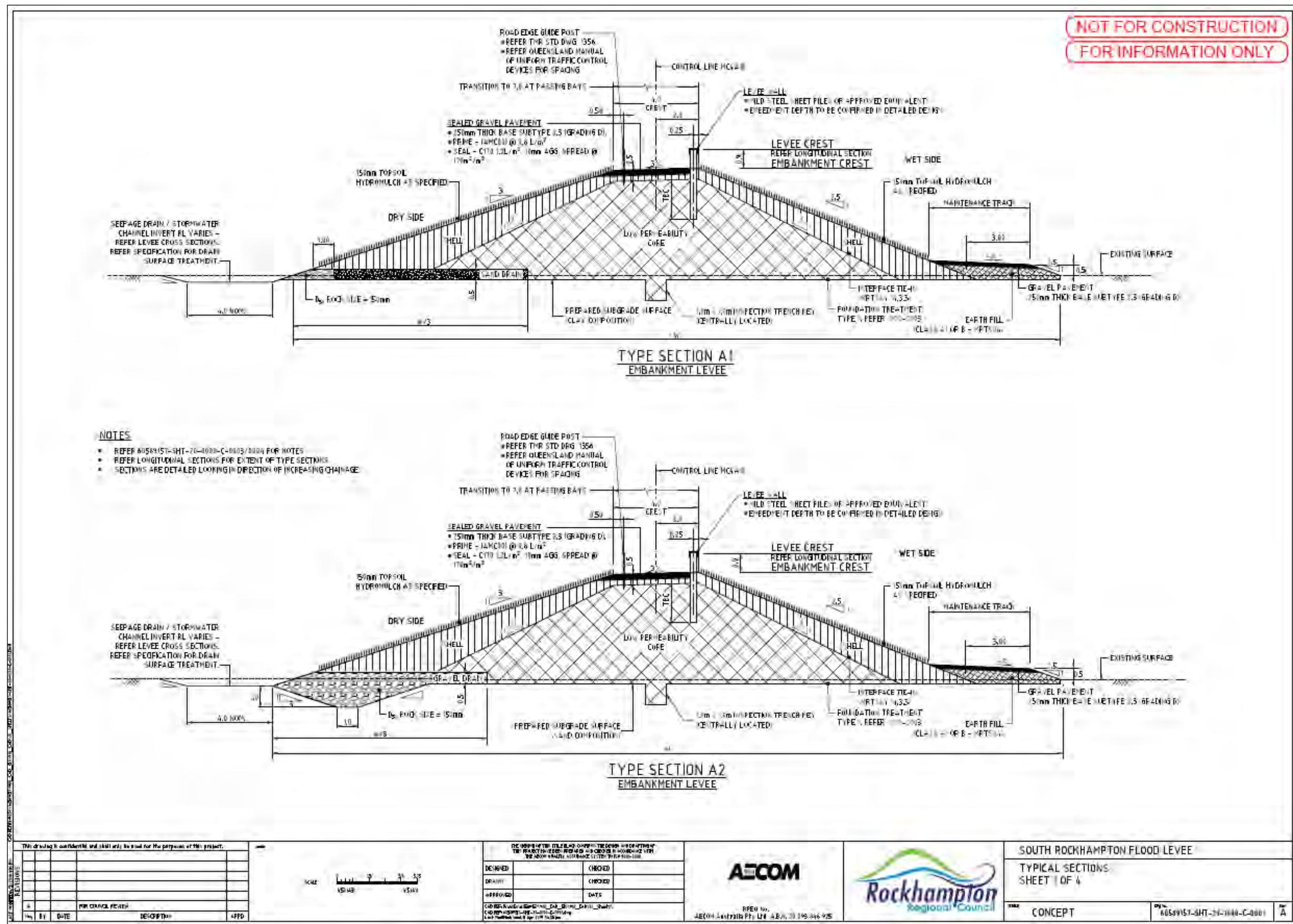


Figure 5: Proposed cross-section designs of the South Rockhampton Flood Levee

## 4. WETLAND CHARACTERISTICS

### 4.1 WETLAND TYPES AND FUNCTION

The three targeted wetlands are all mapped as High Ecological Significance (HES) wetlands and are therefore considered Matters of State Ecological Significance (MSES; refer to Appendix 4 and Table 2). HES wetlands and their associated Wetland Protection Areas (WPAs) are identified on the *Map of referable wetlands* on the DES website (<https://environment.des.qld.gov.au/ecosystems/wetlands/referable-wetlands-form.php>).

HES wetlands are wetlands of high conservation value. The conservation value of the wetland is determined using the DES Aquatic Biodiversity Assessment Mapping Methodology. WPAs include the HES wetland and the assumed extent of hydrological influence of the HES wetland (trigger area). Within urban areas WPAs are assigned as a 100m buffer around the mapped HES wetland perimeter while outside of urban areas the WPA associated with a HES wetland is a 500m buffer. Significant residual impact on WPAs and HES wetlands are required to be offset in accordance with the Queensland Environmental Offsets Policy's framework.

Table 2 outlines the key characteristics of each wetland. All three wetlands are considered Palustrine with Gavial Swamp Lagoon also incorporating some Lacustrine areas (Table 2). Two of the wetlands display ephemeral natures while the third (Fiddes Street Wetland) is perennial, possibly associated with urban development in the surrounding catchment area (Table 2).

All three wetlands have associated alluvial aquifers and are considered Groundwater Dependent Ecosystems (GDEs) with each wetland likely presenting as a surface extension of the underlying aquifer. The wetlands will also act as a recharge point for each of the associated aquifers.

Despite no water quality data, all three wetlands (and their associated aquifers) have been assessed as freshwater systems based on the floristic communities and known source waters for each wetland (Table 2).

#### 4.1.1 ECOLOGICAL ROLE

AECOM (2019) have clearly discussed the ecological role of these wetlands in providing habitat for terrestrial flora and fauna (including wading birds, etc.) communities. Therefore, these values will not be discussed within this Section of the report. Instead, this Section addresses the aquatic ecological role of the wetlands within the greater Fitzroy River catchment and the Great Barrier Reef catchment area context.

Off-channel freshwater wetlands are well known to provide nursery grounds to larval to juvenile freshwater and catadromous fish species (King *et al.*, 2003; Davis *et al.*, 2012). Such systems generally display high primary production (dependent on suspended solids levels) increasing food availability and limited large top predators reducing predation pressure (King *et al.*, 2003). Juvenile and adult fish utilise such systems as refuges over the dry season and migrate to the main channel (or further) when connectivity is re-established in a subsequent wet season. However, such refuges are generally perennial such as the larger Yeppon Lagoon and Woolwash Lagoon. These lagoons are located outside of the project footprint. Therefore, while Fiddes Street Wetland may provide some refuge for aquatic fauna in the dry season, the other two targeted wetlands are ephemeral, providing no refuge for obligate aquatic fauna. Despite this these ephemeral systems must maintain



their connectivity to neighbouring perennial systems to allow recruitment of aquatic fauna to act as a food source for the migratory bird values discussed in AECOM (2019).

Note; the ability for Fiddes Street Wetland to provide refuge for aquatic fauna is potentially already restricted by existing connectivity impacts associated with development in the surrounding catchment area, including the Fiddes Street road embankment and associated culverts.

**Table 2: Wetland characteristics**

<b>Wetland name</b>	<b>Type</b>	<b>Period of inundation</b>	<b>Upstream catchment</b>	<b>HES Wetland</b>	<b>Description</b>
Fiddes Street Wetland	Palustrine	Perennial	Recharged, potentially year-round, by urban runoff. The system can also receive flooding flows from the Fitzroy River with the duration lasting up to two weeks.	Yes	<p>This wetland was likely ephemeral prior to urban development within its surrounding catchment area. The wetland now receives runoff, potentially year-round, from the adjacent upstream urban areas while also displaying increased ponding from a historic downstream road embankment that effectively acts as a dam.</p> <p>The wetland is heavily vegetated and of moderate size. The perennial pool is surrounded by a dense sedgeland (AECOM, 2019). This vegetation within the wetland would filter the urban runoff as it passes through.</p> <p>This system is potentially hydraulically connected to the same aquifer associated with the Gavial Swamp Lagoon based on paleo-channels observed during a review of historic aerial photographs. During flood events from the urban area the wetland overtops the road embankment and enters the Gavial Swamp Lagoon.</p>
Jellicoe Street Wetland	Palustrine	Ephemeral	Receives flows from Yeppen Lagoon during flood/overtopping events as well as potentially receiving some industrial runoff from an adjacent facility.	Yes	<p>The Jellicoe Street Wetland is a small, highly ephemeral wetland that is recharged from the Yeppen Lagoon overtopping during large inflow events. These two wetlands inhabit the same paleo-channel within the floodplain. Based on the perennial nature of Yeppen Lagoon compared to that of the Jellicoe Street Wetland, the alluvial aquifer associated with the Yeppen Lagoon likely expands to include the Jellicoe Street Wetland during floods. It is likely the alluvial aquifer associated with this wetland is also ephemeral.</p> <p>The wetland likely supports a limited aquatic flora community due to its highly ephemeral nature. However, it is unclear from the results of the AECOM (2019) surveys as the wetland was dry during sampling.</p> <p>The wetland is encompassed by historic grazing land with an industrial estate located immediately to the north.</p>

<b>Wetland name</b>	<b>Type</b>	<b>Period of inundation</b>	<b>Upstream catchment</b>	<b>HES Wetland</b>	<b>Description</b>
Gavial Swamp Lagoon	Palustrine/ Lacustrine	Ephemeral	This wetland displays a localised catchment area receiving runoff from adjacent grazing paddocks and overflow from Fiddes Street Wetland. However, it also receives flooding flows from the Woolwash Lagoon and the Fitzroy River with the duration lasting up to two weeks (Figure 6).	Yes	<p>Gavial Swamp Lagoon is the largest of the three lagoons targeted by this assessment (Figure 6). It is characterised by Queensland Government's wetland mapping as a long Lacustrine wetland surrounded by a Palustrine wetland. However, this delineation is highly dependent on the timing of the assessment as the system is ephemeral. For example, as the systems dries out over the course of each year the mapped Lacustrine component (i.e. the deep waterbody relatively clear of aquatic plants) becomes shallower with increased utilisation by aquatic flora, thereby reverting to a Palustrine system.</p> <p>AECOM (2019) noted that the fringing vegetation was comprised on introduced grasses and the declared weed <i>Parthenium hysterophorus</i>. These impacts area likely related to the extensive use of the system for cattle grazing. Historic aerial photographs show that the centre of the mapped Lacustrine section of the wetland has been excavated to extend the permanency of water likely for stock drinking purposes (Figure 7).</p> <p>The wetland possibly has an extensive associated alluvial aquifer that may also be ephemeral. This aquifer potentially has limited connectivity to the Fiddes Street Wetland aquifer.</p>

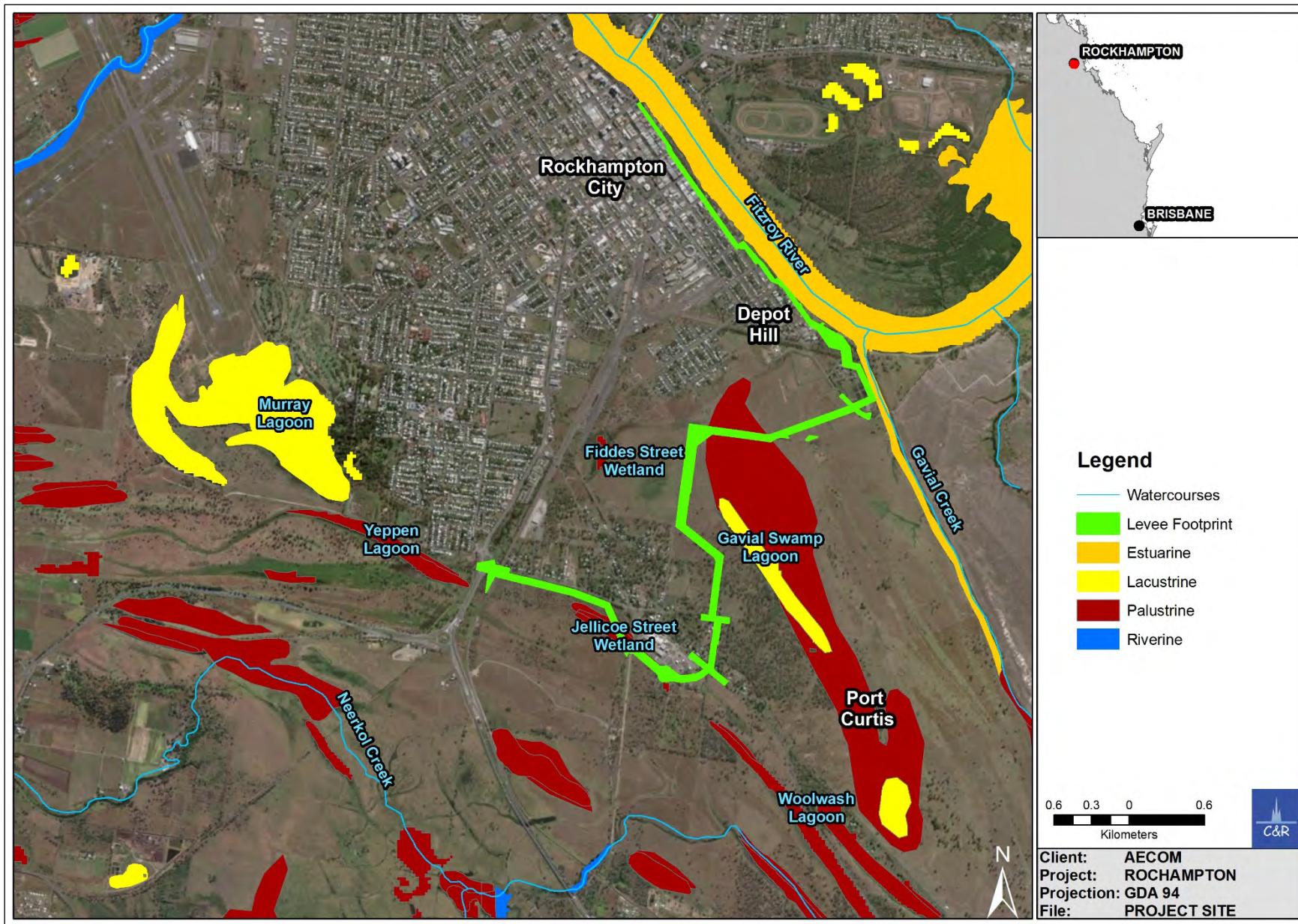


Figure 6: Wetlands as mapped under the Queensland Government Wetland Series (2013) Version 4.0



**Figure 7:** Constructed farm dam (circled pink) in the centre of Gavial Swamp Lagoon to increase the period of inundation for cattle drinking water (note; the small vegetated island adjacent to the dam formed excavated material)

## 5. POTENTIAL IMPACTS AND MITIGATION MEASURES

The project involves the development of a flood levee across the Yeppen Floodplain with direct influence on the three targeted wetlands. The levee will intersect the HES wetland at Jellicoe Street as well as the WPAs associated with Fiddes Street Wetland and Gavial Swamp Lagoon (refer to Appendix 3 and Appendix 4). As such, the potential impacts associated with the project to aquatic ecology values and wetland function are:

- Altered hydrological (both surface waters and groundwater in alluvial palaeochannels) regime and corresponding limited connectivity;
- Loss of habitat; and
- Altered soil erosion and sediment deposition regimes.

### 5.1 HYDROLOGICAL CHANGE/REDUCED CONNECTIVITY

#### 5.1.1 POTENTIAL IMPACTS

The development of a barrier to impede Fitzroy River flood waters from entering the southern suburbs of Rockhampton has the potential to influence the natural surface and sub-surface hydrological processes across the area. However, these potential impacts differ based on the location of the wetland:

- Fiddes Street Wetland and Gavial Swamp Lagoon – currently these two wetlands have connectivity during large localised flow events (i.e. runoff coming from urban catchments, entering Fiddes Street Lagoon, and overtopping into Gavial Swamp Lagoon) as well as during flooding from the Fitzroy River pushing back into Fiddes Street Wetland from downstream reaches (refer to Table 2). Installing a physical barrier above ground has the potential to alter surface flows entering both systems, consequently limiting periods of inundation and associated connectivity, and altering flow velocities. Note; Fiddes Street Wetland is the only wetland assessed (of the three) that has a perennial water body and, as such, can act as a refuge for aquatic fauna during the dry season.

Further, it is likely that the aquifers associated with the two wetlands also currently have periods of connectivity. The weight of the surface structure (i.e. levee), together with the as-built compaction factor and the associated below ground key have the potential to influence water movement between these two aquifers. The extent to which this may influence the period of inundation of these aquifers and their associated surficial wetlands (i.e. GDEs) is unknown. However, the wetlands themselves (as well as much of the surrounding catchment area) will continue to act as recharge points for these aquifers.

- Jellicoe Street Wetland – is within the proposed alignment of the levee with a significant portion of the wetland to be lost during development. This will also impact the underlying aquifer potentially causing waters to pool on the southern side of the levee. It is unlikely to significantly affect the hydraulic connectivity between Yeppen Lagoon and Woolwash Lagoon.

Altered hydrology and reduced connectivity limit the ability for aquatic fauna to move (i.e. migrate) into these systems. As these systems (except Fiddes Street Wetland) do not generally provide refuge for aquatic fauna throughout the dry season, the impacts to fish and turtle populations across the greater Fitzroy Sub-basin will likely be minimal. However, less recruits also infers less food availability to migratory birds/terrestrial species that utilise the wetlands.

### 5.1.2 MITIGATION MEASURES

Several hard engineering solutions have been designed into the proposed levee to ensure the current surface hydrological regime (during non-flood events) is relatively unimpeded by the development. Such measures include:

- Pump stations: These will maintain base water levels within Fiddes Lagoon while facilitating local recharge of the Gavial Swamp Lagoon as flows persist.
- One-way culverts: That will be positioned at a similar height and location to the current culverts under Fiddes Street that provide surface water connectivity between the Fiddes Street Wetland and Gavial Swamp Lagoon.

These mitigation methods aim to ensure current surface flow patterns between Fiddes Street Wetland and Gavial Swamp Lagoon during non-flooding events are maintained post development. The final design of the one-way culverts has not been determined. However, the culverts are known to be in excess of 30m long and ~1.2m in diameter (pers. comm. R. Corbett, AECOM). Such structures can act as a barrier to fish passage if inappropriately designed. Current fish movement patterns between Gavial Swamp Lagoon and the perennial Fiddes Street Wetland during periods of flow are not well understood. Further investigation of the potential for the development to influence fish migration across the floodplain may be required to guide final culvert designs.

Note; there are currently no available data on fish utilisation of either of these wetlands, but it is predicted that both would currently yield freshwater fish populations during the wet season.

## 5.2 LOSS OF HABITAT

### 5.2.1 POTENTIAL IMPACTS

Complete removal of wetland habitat by the development of the levee (during the construction and operational phases) will also have a different impact on each wetland:

- *Fiddes Street Wetland* – will not be directly impacted by loss of habitat as the proposed alignment occurs on the downstream (external) side of the current Fiddes Street road alignment that encompasses the downstream end of the wetland.
- *Gavial Swamp Lagoon* – will lose a section of the mapped WPA from within the proposed levee alignment. The WPA is the buffer zone of hydraulic influence around the HES wetland. The levee crosses the outer edge of this buffer. This area would have limited surface aquatic ecology values as it probably dries out rapidly after inflows cease each year (based on a review of historic aerial photographs). However, it may impede alluvial aquifer flows associated with the wetland, potentially altering the period of inundation within the associated wetlands.
- *Jellicoe Street Wetland* – is within the proposed alignment of the levee with the majority of the wetland to be lost during development. This will, however, only slightly reduce the coverage of wetland habitat within the overall Yeppen Floodplain. Taking into account the available wetland habitats throughout the entire Yeppen Floodplain, the highly ephemeral nature and relatively small size of this mapped wetland indicates any impact on the aquatic ecology values and wetland function of the large Yeppen Floodplain system may not be significant.

### 5.2.2 MITIGATION MEASURES

The proposed alignment design of the levee has been based on detailed modelling, community consultation and the identified environmental constraints. While several different designs were reviewed, the current proposed alignment best met the requirements of flood

mitigation, the expectations of stakeholders and limited the impacts on HES wetlands across the greater Yeppen Floodplain.

Further, the design of the levee with a relatively minor key structure (~1m below ground) aims to limit any impacts on the associated alluvial aquifer flows through the area.

## 5.3 SOIL EROSION AND SEDIMENT DEPOSITION

### 5.3.1 POTENTIAL IMPACTS

Increased soil erosion and an altered sediment deposition regime has the potential to occur during construction processes (i.e. from vegetation clearing) as well as the operational phase (i.e. from altered flow velocities). As a significant portion of the Jellicoe Street Wetland will be lost during the construction of the levee, soil erosion and sediment deposition is of less concern to this system. However, further ponding in Fiddes Street Lagoon has the potential to increase sedimentation rates, while increased velocities in Gavial Swamp Lagoon during flood events has the potential to increase erosion rates.

Elevated erosion rates can adversely impact primary production within a water body by increasing suspended sediment loads (i.e. reducing light attenuation), while increased sedimentation often leads to the smothering of habitats impacting both primary production and macroinvertebrate communities, with flow-on effects up the food chain (Gleason *et al.*, 2003; Gray & Ward 1982; Wood & Armitage 1997).

### 5.3.2 MITIGATION MEASURES

Construction of the levee will be undertaken during the dry season to limit the potential for soil erosion from cleared areas entering the neighbouring wetlands. On completion the earthen levee will be appropriately rehabilitated with grass species to reduce erosion.

Once the levee has been constructed, the current surface hydrological regime of Fiddes Street Wetland, during non-flood flow events, will be mirrored as closely as possible by the operation of pump stations and the one-way culverts. However, it is probable that these will be shut down during times of flood, subsequently increasing the ponding period in Fiddes Street Wetland with some increased sedimentation. However, this will only occur in substantial floods with the current hydrological regime otherwise followed.

## 5.4 CONCLUDING REMARKS

No preferred habitat for listed aquatic species is present within the project site. However, the three wetlands to be influenced by the project are mapped as HES wetlands with associated WPAs. Further consideration needs to be provided to the design of mitigation measures to ensure the level of risk posed by the project to the aquatic ecology values of the Yeppen Floodplain will be significantly reduced to a suitable level.

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CLIENT: AECOM AUSTRALIA PTY LTD  
PROJECT: SOUTH ROCKHAMPTON FLOOD LEVEE  
REPORT: WETLANDS ASSESSMENT  
DATE: APRIL 2019



## APPENDIX 1 – SEARCH RESULTS



# 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: 05/04/19 16:08:51

[Summary](#)

[Details](#)

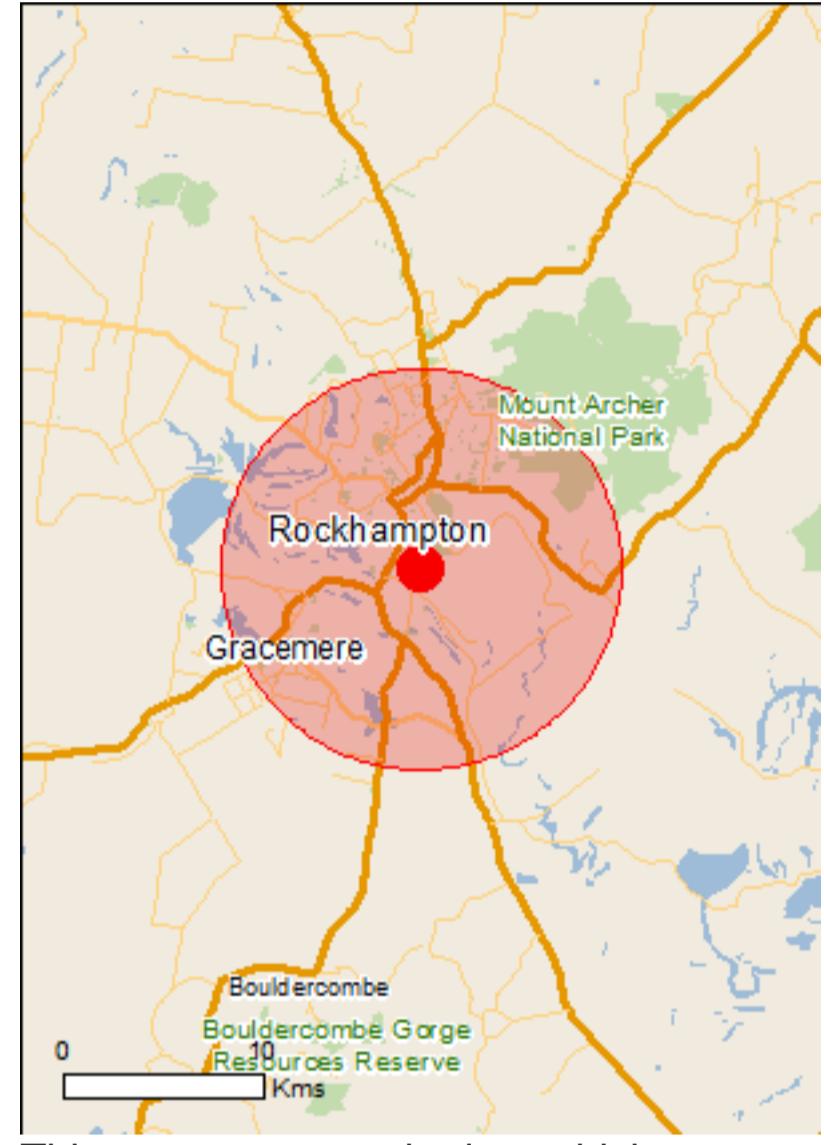
[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

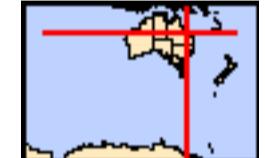
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[Coordinates](#)

[Buffer: 10.0Km](#)



# Summary

## Matters of National Environmental Significance

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

<a href="#">World Heritage Properties:</a>	1
<a href="#">National Heritage Places:</a>	1
<a href="#">Wetlands of International Importance:</a>	None
<a href="#">Great Barrier Reef Marine Park:</a>	None
<a href="#">Commonwealth Marine Area:</a>	None
<a href="#">Listed Threatened Ecological Communities:</a>	2
<a href="#">Listed Threatened Species:</a>	43
<a href="#">Listed Migratory Species:</a>	31

## Other Matters Protected by the EPBC Act

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

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

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

<a href="#">Commonwealth Land:</a>	3
<a href="#">Commonwealth Heritage Places:</a>	1
<a href="#">Listed Marine Species:</a>	32
<a href="#">Whales and Other Cetaceans:</a>	2
<a href="#">Critical Habitats:</a>	None
<a href="#">Commonwealth Reserves Terrestrial:</a>	None
<a href="#">Australian Marine Parks:</a>	None

## Extra Information

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

<a href="#">State and Territory Reserves:</a>	2
<a href="#">Regional Forest Agreements:</a>	None
<a href="#">Invasive Species:</a>	34
<a href="#">Nationally Important Wetlands:</a>	2
<a href="#">Key Ecological Features (Marine)</a>	None

# Details

## Matters of National Environmental Significance

World Heritage Properties	[ Resource Information ]	
Name	State	Status
<a href="#">Great Barrier Reef</a>	QLD	Declared property
National Heritage Properties	[ Resource Information ]	
Name	State	Status
Natural <a href="#">Great Barrier Reef</a>	QLD	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
<a href="#">Coolibah - Black Box Woodlands of the Darling Riverine Plains and the Brigalow Belt South Bioregions</a>	Endangered	Community may occur within area

<a href="#">Weeping Myall Woodlands</a>	Endangered	Community likely to occur within area
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Listed Threatened Species	[ Resource Information ]
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Name	Status	Type of Presence
Birds <a href="#">Botaurus poiciloptilus</a>	Endangered	Species or species habitat may occur within area

<a href="#">Calidris ferruginea</a>	Critically Endangered	Species or species habitat known to occur within area
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<a href="#">Ephtianura crocea macgregori</a>	Critically Endangered	Species or species habitat likely to occur within area
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<a href="#">Erythrotriorchis radiatus</a>	Vulnerable	Species or species habitat likely to occur within area
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<a href="#">Geophaps scripta scripta</a>	Vulnerable	Species or species habitat known to occur within area
--	------------	---

<a href="#">Limosa lapponica baueri</a>	Vulnerable	Species or species habitat may occur within area
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<a href="#">Limosa lapponica menzbieri</a>	Critically Endangered	Species or species habitat may occur within area
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<a href="#">Macronectes giganteus</a>	Endangered	Species or species habitat may occur within area
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<a href="#">Neochmia ruficauda ruficauda</a>	Endangered	Species or species
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Name	Status	Type of Presence
<a href="#"><u>Numenius madagascariensis</u></a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	habitat likely to occur within area
<a href="#"><u>Poephila cincta cincta</u></a> Southern Black-throated Finch [64447]	Endangered	Species or species habitat likely to occur within area
<a href="#"><u>Rostratula australis</u></a> Australian Painted-snipe, Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
<a href="#"><u>Thalassarche impavida</u></a> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Turnix melanogaster</u></a> Black-breasted Button-quail [923]	Vulnerable	Species or species habitat likely to occur within area
<b>Fish</b>		
<a href="#"><u>Maccullochella peelii</u></a> Murray Cod [66633]	Vulnerable	Species or species habitat may occur within area
<b>Mammals</b>		
<a href="#"><u>Chalinolobus dwyeri</u></a> Large-eared Pied Bat, Large Pied Bat [183]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Dasyurus hallucatus</u></a> Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331]	Endangered	Species or species habitat likely to occur within area
<a href="#"><u>Macroderma gigas</u></a> Ghost Bat [174]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u>Nyctophilus corbeni</u></a> Corben's Long-eared Bat, South-eastern Long-eared Bat [83395]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Petauroides volans</u></a> Greater Glider [254]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Phascolarctos cinereus (combined populations of Qld, NSW and the ACT)</u></a>		
Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104]	Vulnerable	Species or species habitat known to occur within area
<a href="#"><u>Pteropus poliocephalus</u></a> Grey-headed Flying-fox [186]	Vulnerable	Foraging, feeding or related behaviour may occur within area
<a href="#"><u>Xeromys myoides</u></a> Water Mouse, False Water Rat, Yirrkoo [66]	Vulnerable	Species or species habitat likely to occur within area
<b>Plants</b>		
<a href="#"><u>Cycas megacarpa</u></a> [55794]	Endangered	Species or species habitat known to occur within area
<a href="#"><u>Cycas ophiolitica</u></a> [55797]	Endangered	Species or species habitat known to occur within area
<a href="#"><u>Dichanthium setosum</u></a> bluegrass [14159]	Vulnerable	Species or species habitat likely to occur within area

Name	Status	Type of Presence
<a href="#"><u>Eucalyptus raveretiana</u></a> Black Ironbox [16344]	Vulnerable	Species or species habitat known to occur within area
<a href="#"><u>Marsdenia brevifolia</u></a> [64585]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u>Phaius australis</u></a> Lesser Swamp-orchid [5872]	Endangered	Species or species habitat may occur within area
<a href="#"><u>Samadera bidwillii</u></a> Quassia [29708]	Vulnerable	Species or species habitat likely to occur within area
<b>Reptiles</b>		
<a href="#"><u>Caretta caretta</u></a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Chelonia mydas</u></a> Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#"><u>Delma torquata</u></a> Adorned Delma, Collared Delma [1656]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Denisonia maculata</u></a> Ornamental Snake [1193]	Vulnerable	Species or species habitat known to occur within area
<a href="#"><u>Dermochelys coriacea</u></a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Egernia rugosa</u></a> Yakka Skink [1420]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Elseya albogula</u></a> Southern Snapping Turtle, White-throated Snapping Turtle [81648]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#"><u>Eretmochelys imbricata</u></a> Hawksbill Turtle [1766]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Furina dunmalli</u></a> Dunmall's Snake [59254]	Vulnerable	Species or species habitat known to occur within area
<a href="#"><u>Lepidochelys olivacea</u></a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Natator depressus</u></a> Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#"><u>Rheodytes leukops</u></a> Fitzroy River Turtle, Fitzroy Tortoise, Fitzroy Turtle, White-eyed River Diver [1761]	Vulnerable	Species or species habitat known to occur within area
<b>Sharks</b>		
<a href="#"><u>Pristis zijsron</u></a> Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Breeding may occur within area
<b>Listed Migratory Species</b>		[Resource Information]
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence

Name	Threatened	Type of Presence
Migratory Marine Birds		
<a href="#"><i>Apus pacificus</i></a>		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<a href="#"><i>Calonectris leucomelas</i></a>		
Streaked Shearwater [1077]		Species or species habitat may occur within area
<a href="#"><i>Macronectes giganteus</i></a>		
Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
<a href="#"><i>Thalassarche impavida</i></a>		
Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Migratory Marine Species		
<a href="#"><i>Caretta caretta</i></a>		
Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><i>Chelonia mydas</i></a>		
Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#"><i>Crocodylus porosus</i></a>		
Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area
<a href="#"><i>Dermochelys coriacea</i></a>		
Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><i>Eretmochelys imbricata</i></a>		
Hawksbill Turtle [1766]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><i>Lepidochelys olivacea</i></a>		
Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><i>Manta alfredi</i></a>		
Reef Manta Ray, Coastal Manta Ray, Inshore Manta Ray, Prince Alfred's Ray, Resident Manta Ray [84994]		Species or species habitat may occur within area
<a href="#"><i>Manta birostris</i></a>		
Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		Species or species habitat may occur within area
<a href="#"><i>Natator depressus</i></a>		
Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#"><i>Orcaella heinsohni</i></a>		
Australian Snubfin Dolphin [81322]		Species or species habitat may occur within area
<a href="#"><i>Pristis zijsron</i></a>		
Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Breeding may occur within area
<a href="#"><i>Sousa chinensis</i></a>		
Indo-Pacific Humpback Dolphin [50]		Species or species habitat likely to occur within area
Migratory Terrestrial Species		
<a href="#"><i>Cuculus optatus</i></a>		
Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat may occur within area
<a href="#"><i>Hirundapus caudacutus</i></a>		
White-throated Needletail [682]		Species or species habitat likely to occur

Name	Threatened	Type of Presence within area
<a href="#"><u>Monarcha melanopsis</u></a> Black-faced Monarch [609]		Species or species habitat known to occur within area
<a href="#"><u>Monarcha trivirgatus</u></a> Spectacled Monarch [610]		Species or species habitat known to occur within area
<a href="#"><u>Myiagra cyanoleuca</u></a> Satin Flycatcher [612]		Species or species habitat known to occur within area
<a href="#"><u>Rhipidura rufifrons</u></a> Rufous Fantail [592]		Species or species habitat known to occur within area
<b>Migratory Wetlands Species</b>		
<a href="#"><u>Actitis hypoleucus</u></a> Common Sandpiper [59309]		Species or species habitat likely to occur within area
<a href="#"><u>Calidris acuminata</u></a> Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
<a href="#"><u>Calidris ferruginea</u></a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
<a href="#"><u>Calidris melanotos</u></a> Pectoral Sandpiper [858]		Species or species habitat may occur within area
<a href="#"><u>Gallinago hardwickii</u></a> Latham's Snipe, Japanese Snipe [863]		Species or species habitat may occur within area
<a href="#"><u>Limosa lapponica</u></a> Bar-tailed Godwit [844]		Species or species habitat known to occur within area
<a href="#"><u>Numenius madagascariensis</u></a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#"><u>Pandion haliaetus</u></a> Osprey [952]		Breeding known to occur within area
<a href="#"><u>Tringa nebularia</u></a> Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

## Other Matters Protected by the EPBC Act

Commonwealth Land	<u>[ Resource Information ]</u>	
The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.		
Name		
Defence - LOGISTIC SUPPORT DEPOT - ROCKHAMPTON		
Defence - ROCKHAMPTON AIRFIELD		
Defence - ROCKHAMPTON TRAINING DEPOT		
Commonwealth Heritage Places	<u>[ Resource Information ]</u>	
Name	State	Status
Historic <a href="#"><u>ABC Radio Studios</u></a>	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		
<a href="#"><u>Actitis hypoleucus</u></a>		
Common Sandpiper [59309]		Species or species habitat likely to occur within area
<a href="#"><u>Anseranas semipalmata</u></a>		
Magpie Goose [978]		Species or species habitat may occur within area
<a href="#"><u>Apus pacificus</u></a>		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<a href="#"><u>Ardea alba</u></a>		
Great Egret, White Egret [59541]		Species or species habitat known to occur within area
<a href="#"><u>Ardea ibis</u></a>		
Cattle Egret [59542]		Species or species habitat may occur within area
<a href="#"><u>Calidris acuminata</u></a>		
Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
<a href="#"><u>Calidris ferruginea</u></a>		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
<a href="#"><u>Calidris melanotos</u></a>		
Pectoral Sandpiper [858]		Species or species habitat may occur within area
<a href="#"><u>Calonectris leucomelas</u></a>		
Streaked Shearwater [1077]		Species or species habitat may occur within area
<a href="#"><u>Chrysococcyx osculans</u></a>		
Black-eared Cuckoo [705]		Species or species habitat likely to occur within area
<a href="#"><u>Gallinago hardwickii</u></a>		
Latham's Snipe, Japanese Snipe [863]		Species or species habitat may occur within area
<a href="#"><u>Haliaeetus leucogaster</u></a>		
White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
<a href="#"><u>Hirundapus caudacutus</u></a>		
White-throated Needletail [682]		Species or species habitat likely to occur within area
<a href="#"><u>Limosa lapponica</u></a>		
Bar-tailed Godwit [844]		Species or species habitat known to occur within area
<a href="#"><u>Macronectes giganteus</u></a>		
Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
<a href="#"><u>Merops ornatus</u></a>		
Rainbow Bee-eater [670]		Species or species habitat may occur within area
<a href="#"><u>Monarcha melanopsis</u></a>		
Black-faced Monarch [609]		Species or species habitat known to occur within area

Name	Status	Type of Presence
<a href="#"><u>Monarcha trivirgatus</u></a> Spectacled Monarch [610]	Threatened	Species or species habitat known to occur within area
<a href="#"><u>Myiagra cyanoleuca</u></a> Satin Flycatcher [612]		Species or species habitat known to occur within area
<a href="#"><u>Numenius madagascariensis</u></a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#"><u>Pandion haliaetus</u></a> Osprey [952]		Breeding known to occur within area
<a href="#"><u>Rhipidura rufifrons</u></a> Rufous Fantail [592]		Species or species habitat known to occur within area
<a href="#"><u>Rostratula benghalensis (sensu lato)</u></a> Painted Snipe [889]	Endangered*	Species or species habitat likely to occur within area
<a href="#"><u>Thalassarche impavida</u></a> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Tringa nebularia</u></a> Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area
<b>Reptiles</b>		
<a href="#"><u>Caretta caretta</u></a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Chelonia mydas</u></a> Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#"><u>Crocodylus porosus</u></a> Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area
<a href="#"><u>Dermochelys coriacea</u></a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Eretmochelys imbricata</u></a> Hawksbill Turtle [1766]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Lepidochelys olivacea</u></a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Natator depressus</u></a> Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<b>Whales and other Cetaceans</b>		
<b>[ Resource Information ]</b>		
Name	Status	Type of Presence
Mammals		
<a href="#"><u>Orcaella brevirostris</u></a> Irrawaddy Dolphin [45]		Species or species habitat may occur within area
<a href="#"><u>Sousa chinensis</u></a> Indo-Pacific Humpback Dolphin [50]		Species or species habitat likely to occur within area

## Extra Information

State and Territory Reserves		<a href="#">[ Resource Information ]</a>
Name	Status	QLD
Mount Archer		
Rockhampton Pistol Club		QLD
Invasive Species		<a href="#">[ Resource Information ]</a>
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

Name	Status	Type of Presence
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
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
Lepus capensis Brown Hare [127]		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
<b>Plants</b>		
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
Anredera cordifolia Madeira Vine, Jalap, Lamb's-tail, Mignonette Vine, Anredera, Gulf Madeiravine, Heartleaf Madeiravine, Potato Vine [2643] Cryptostegia grandiflora Rubber Vine, Rubbervine, India Rubber Vine, India Rubbervine, Palay Rubbervine, Purple Allamanda [18913] 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] Lantana camara Lantana, Common Lantana, Kamara Lantana, Large-leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White		Species or species habitat likely to occur within area

Name	Status	Type of Presence
Sage, Wild Sage [10892]		
Opuntia spp.		
Prickly Pears [82753]		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
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
Ramphotyphlops braminus		
Flowerpot Blind Snake, Brahminy Blind Snake, Cacing Besi [1258]		Species or species habitat may occur within area

Nationally Important Wetlands	[ Resource Information ]
Name	State
<a href="#">Fitzroy River Delta</a>	QLD
<a href="#">Fitzroy River Floodplain</a>	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

-23.40577 150.51654

# 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: All

Records: All

Date: All

Latitude: -23.4047

Longitude: 150.5191

Distance: 10

Email: matt@candrconsulting.com.au

Date submitted: Friday 05 Apr 2019 15:09:49

Date extracted: Friday 05 Apr 2019 15:20:02

The number of records retrieved = 1124

### **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	Bufonidae	<i>Rhinella marina</i>	cane toad	Y			24
animals	amphibians	Hylidae	<i>Litoria sp.</i>					1
animals	amphibians	Hylidae	<i>Cyclorana novaehollandiae</i>	eastern snapping frog	C			1/1
animals	amphibians	Hylidae	<i>Cyclorana alboguttata</i>	greenstripe frog	C			7/1
animals	amphibians	Hylidae	<i>Litoria latopalmata</i>	broad palmed rocketfrog	C			1
animals	amphibians	Hylidae	<i>Litoria gracilenta</i>	graceful treefrog	C			8/7
animals	amphibians	Hylidae	<i>Cyclorana brevipes</i>	superb collared frog	C			6/5
animals	amphibians	Hylidae	<i>Litoria wilcoxii</i>	eastern stony creek frog	C			1
animals	amphibians	Hylidae	<i>Litoria caerulea</i>	common green treefrog	C			22/17
animals	amphibians	Hylidae	<i>Litoria fallax</i>	eastern sedgefrog	C			14/5
animals	amphibians	Hylidae	<i>Litoria rothii</i>	northern laughing treefrog	C			2/1
animals	amphibians	Hylidae	<i>Litoria rubella</i>	ruddy treefrog	C			5
animals	amphibians	Limnodynastidae	<i>Limnodynastes terraereginae</i>	scarlet sided pobblebonk	C			3/3
animals	amphibians	Limnodynastidae	<i>Platylectrum ornatum</i>	ornate burrowing frog	C			1/1
animals	amphibians	Limnodynastidae	<i>Limnodynastes salmini</i>	salmon striped frog	C			4/1
animals	amphibians	Limnodynastidae	<i>Limnodynastes peronii</i>	striped marshfrog	C			5/2
animals	amphibians	Limnodynastidae	<i>Limnodynastes tasmaniensis</i>	spotted grassfrog	C			10/3
animals	amphibians	Myobatrachidae	<i>Pseudophryne major</i>	great brown broodfrog	C			7/6
animals	amphibians	Myobatrachidae	<i>Crinia deserticola</i>	chirping froglet	C			1
animals	amphibians	Myobatrachidae	<i>Uperoleia rugosa</i>	chubby gungan	C			5/5
birds		Acanthizidae	<i>Acanthiza chrysorrhoa</i>	yellow-rumped thornbill	C			3
birds		Acanthizidae	<i>Sericornis frontalis</i>	white-browed scrubwren	C			3/2
birds		Acanthizidae	<i>Acanthiza reguloides</i>	buff-rumped thornbill	C			5/3
birds		Acanthizidae	<i>Gerygone palpebrosa</i>	fairy gerygone	C			7
birds		Acanthizidae	<i>Gerygone olivacea</i>	white-throated gerygone	C			21
birds		Acanthizidae	<i>Acanthiza nana</i>	yellow thornbill	C			2
birds		Acanthizidae	<i>Smicromis brevirostris</i>	weebill	C			1
birds		Acanthizidae	<i>Sericornis magnirostra</i>	large-billed scrubwren	C			2
birds		Accipitridae	<i>Elanus axillaris</i>	black-shouldered kite	C			7
birds		Accipitridae	<i>Lophoictinia isura</i>	square-tailed kite	C			3/1
birds		Accipitridae	<i>Accipiter fasciatus</i>	brown goshawk	C			2
birds		Accipitridae	<i>Aviceda subcristata</i>	Pacific baza	C			7
birds		Accipitridae	<i>Aquila audax</i>	wedge-tailed eagle	C			6
birds		Accipitridae	<i>Milvus migrans</i>	black kite	C			34/1
birds		Accipitridae	<i>Haliastur indus</i>	brahminy kite	C			13
birds		Accipitridae	<i>Circus assimilis</i>	spotted harrier	C			4
birds		Accipitridae	<i>Circus approximans</i>	swamp harrier	C			12
birds		Accipitridae	<i>Pandion cristatus</i>	eastern osprey	SL			6
birds		Accipitridae	<i>Erythrotriorchis radiatus</i>	red goshawk	E	V		1
birds		Accipitridae	<i>Accipiter novaehollandiae</i>	grey goshawk	C			2/1
birds		Accipitridae	<i>Accipiter cirrocephalus</i>	collared sparrowhawk	C			2/1
birds		Accipitridae	<i>Hieraetus morphnoides</i>	little eagle	C			1
birds		Accipitridae	<i>Haliaeetus leucogaster</i>	white-bellied sea-eagle	C			25/2
birds		Accipitridae	<i>Haliastur sphenurus</i>	whistling kite	C			110
birds		Acrocephalidae	<i>Acrocephalus australis</i>	Australian reed-warbler	C			42
birds		Aegothelidae	<i>Aegotheles cristatus</i>	Australian owlet-nightjar	C			3/1

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animals	birds	Alaudidae	<i>Mirafra javanica</i>	Horsfield's bushlark	C			2
animals	birds	Alcedinidae	<i>Ceyx azureus</i>	azure kingfisher	C			1
animals	birds	Anatidae	<i>Malacorhynchus membranaceus</i>	pink-eared duck	C			7
animals	birds	Anatidae	<i>Nettapus coromandelianus</i>	cotton pygmy-goose	C			89/1
animals	birds	Anatidae	<i>Stictionetta naevosa</i>	freckled duck	C			6
animals	birds	Anatidae	<i>Nettapus pulchellus</i>	green pygmy-goose	C			6
animals	birds	Anatidae	<i>Dendrocygna arcuata</i>	wandering whistling-duck	C			50/1
animals	birds	Anatidae	<i>Dendrocygna eytoni</i>	plumed whistling-duck	C			46
animals	birds	Anatidae	<i>Anas platyrhynchos</i>	northern mallard	Y			27
animals	birds	Anatidae	<i>Chenonetta jubata</i>	Australian wood duck	C			112
animals	birds	Anatidae	<i>Anas superciliosa</i>	Pacific black duck	C			160
animals	birds	Anatidae	<i>Aythya australis</i>	hardhead	C			89
animals	birds	Anatidae	<i>Anas rhynchos</i>	Australasian shoveler	C			24
animals	birds	Anatidae	<i>Tadorna radjah</i>	radjah shelduck	C			7
animals	birds	Anatidae	<i>Cygnus atratus</i>	black swan	C			98
animals	birds	Anatidae	<i>Biziura lobata</i>	musk duck	C			4
animals	birds	Anatidae	<i>Anas gracilis</i>	grey teal	C			131
animals	birds	Anatidae	<i>Anas castanea</i>	chestnut teal	C			9
animals	birds	Anhingidae	<i>Anhinga novaehollandiae</i>	Australasian darter	C			114/1
animals	birds	Anseranatidae	<i>Anseranas semipalmata</i>	magpie goose	C			121
animals	birds	Apodidae	<i>Apus pacificus</i>	fork-tailed swift	SL			1
animals	birds	Ardeidae	<i>Nycticorax caledonicus</i>	nankeen night-heron	C			13/1
animals	birds	Ardeidae	<i>Bubulcus ibis</i>	cattle egret	C			58
animals	birds	Ardeidae	<i>Ardea pacifica</i>	white-necked heron	C			33
animals	birds	Ardeidae	<i>Ardea intermedia</i>	intermediate egret	C			120
animals	birds	Ardeidae	<i>Egretta garzetta</i>	little egret	C			52
animals	birds	Ardeidae	<i>Ardea alba modesta</i>	eastern great egret	C			112
animals	birds	Ardeidae	<i>Ixobrychus flavicollis</i>	black bittern	C			1/1
animals	birds	Ardeidae	<i>Egretta novaehollandiae</i>	white-faced heron	C			75
animals	birds	Artamidae	<i>Artamus superciliosus</i>	white-browed woodswallow	C			2/1
animals	birds	Artamidae	<i>Artamus leucorynchus</i>	white-breasted woodswallow	C			28/1
animals	birds	Artamidae	<i>Cracticus nigrogularis</i>	pied butcherbird	C			90/1
animals	birds	Artamidae	<i>Artamus minor</i>	little woodswallow	C			1
animals	birds	Artamidae	<i>Artamus cinereus</i>	black-faced woodswallow	C			11
animals	birds	Artamidae	<i>Cracticus tibicen</i>	Australian magpie	C			129/1
animals	birds	Artamidae	<i>Strepera graculina</i>	pied currawong	C			212/1
animals	birds	Artamidae	<i>Cracticus torquatus</i>	grey butcherbird	C			2
animals	birds	Burhinidae	<i>Burhinus grallarius</i>	bush stone-curlew	C			8
animals	birds	Cacatuidae	<i>Cacatua galerita</i>	sulphur-crested cockatoo	C			52
animals	birds	Cacatuidae	<i>Cacatua sanguinea</i>	little corella	C			44
animals	birds	Cacatuidae	<i>Cacatua tenuirostris</i>	long-billed corella	Y	C		16
animals	birds	Cacatuidae	<i>Eolophus roseicapilla</i>	galah	C			22
animals	birds	Cacatuidae	<i>Nymphicus hollandicus</i>	cockatiel	C			8
animals	birds	Cacatuidae	<i>Lophochroa leadbeateri</i>	Major Mitchell's cockatoo	V			1
animals	birds	Cacatuidae	<i>Calyptorhynchus banksii</i>	red-tailed black-cockatoo	C			22
animals	birds	Campephagidae	<i>Coracina novaehollandiae</i>	black-faced cuckoo-shrike	C			68

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animals	birds	Campephagidae	<i>Coracina tenuirostris</i>	cicadabird	C			2/1
animals	birds	Campephagidae	<i>Coracina papuensis</i>	white-bellied cuckoo-shrike	C			3
animals	birds	Campephagidae	<i>Lalage leucomela</i>	varied triller	C			6
animals	birds	Campephagidae	<i>Coracina lineata</i>	barred cuckoo-shrike	C			1
animals	birds	Campephagidae	<i>Lalage tricolor</i>	white-winged triller	C			8
animals	birds	Caprimulgidae	<i>Caprimulgus macrurus</i>	large-tailed nightjar	C			1
animals	birds	Casuariidae	<i>Dromaius novaehollandiae</i>	emu	C			1
animals	birds	Charadriidae	<i>Vanellus miles novaehollandiae</i>	masked lapwing (southern subspecies)	C			104/1
animals	birds	Charadriidae	<i>Pluvialis fulva</i>	Pacific golden plover	SL			1
animals	birds	Charadriidae	<i>Elseyornis melanops</i>	black-fronted dotterel	C			58
animals	birds	Charadriidae	<i>Charadrius ruficapillus</i>	red-capped plover	C			1
animals	birds	Charadriidae	<i>Erythrogonys cinctus</i>	red-kneed dotterel	C			25
animals	birds	Charadriidae	<i>Vanellus miles</i>	masked lapwing	C			25
animals	birds	Ciconiidae	<i>Ephippiorhynchus asiaticus</i>	black-necked stork	C			15
animals	birds	Cisticolidae	<i>Cisticola exilis</i>	golden-headed cisticola	C			25
animals	birds	Climacteridae	<i>Cormobates leucophaea metastasis</i>	white-throated treecreeper (southern)	C			3
animals	birds	Climacteridae	<i>Climacteris picumnus</i>	brown treecreeper	C			1
animals	birds	Columbidae	<i>Streptopelia chinensis</i>	spotted dove	Y			130
animals	birds	Columbidae	<i>Geophaps scripta scripta</i>	squatter pigeon (southern subspecies)	V	V		7/3
animals	birds	Columbidae	<i>Columba livia</i>	rock dove	Y			13
animals	birds	Columbidae	<i>Geopelia striata</i>	peaceful dove	C			128/1
animals	birds	Columbidae	<i>Ocyphaps lophotes</i>	crested pigeon	C			72
animals	birds	Columbidae	<i>Ptilinopus regina</i>	rose-crowned fruit-dove	C			1
animals	birds	Columbidae	<i>Chalcophaps indica</i>	emerald dove	C			3
animals	birds	Columbidae	<i>Geopelia humeralis</i>	bar-shouldered dove	C			14/2
animals	birds	Columbidae	<i>Ptilinopus superbus</i>	superb fruit-dove	C			2
animals	birds	Columbidae	<i>Ptilinopus magnificus</i>	wompoo fruit-dove	C			3/2
animals	birds	Columbidae	<i>Macropygia amboinensis</i>	brown cuckoo-dove	C			2
animals	birds	Coraciidae	<i>Eurystomus orientalis</i>	dollarbird	C			23
animals	birds	Corcoracidae	<i>Struthidea cinerea</i>	apostlebird	C			7
animals	birds	Corcoracidae	<i>Corcorax melanorhamphos</i>	white-winged chough	C			4
animals	birds	Corvidae	<i>Corvus orru</i>	Torresian crow	C			111
animals	birds	Corvidae	<i>Corvus coronoides</i>	Australian raven	C			4
animals	birds	Cuculidae	<i>Chalcites minutillus russatus</i>	Gould's bronze-cuckoo	C			1
animals	birds	Cuculidae	<i>Chalcites basalis</i>	Horsfield's bronze-cuckoo	C			8/3
animals	birds	Cuculidae	<i>Chalcites lucidus</i>	shining bronze-cuckoo	C			4
animals	birds	Cuculidae	<i>Cacomantis pallidus</i>	pallid cuckoo	C			15/1
animals	birds	Cuculidae	<i>Eudynamys orientalis</i>	eastern koel	C			35/1
animals	birds	Cuculidae	<i>Centropus phasianinus</i>	pheasant coucal	C			29
animals	birds	Cuculidae	<i>Cacomantis flabelliformis</i>	fan-tailed cuckoo	C			5
animals	birds	Cuculidae	<i>Scythrops novaehollandiae</i>	channel-billed cuckoo	C			22/2
animals	birds	Cuculidae	<i>Chalcites minutillus barnardi</i>	Eastern little bronze-cuckoo	C			1
animals	birds	Dicruridae	<i>Dicrurus bracteatus</i>	spangled drongo	C			14
animals	birds	Estrildidae	<i>Lonchura castaneothorax</i>	chestnut-breasted mannikin	C			9
animals	birds	Estrildidae	<i>Taeniopygia bichenovii</i>	double-barred finch	C			31/1
animals	birds	Estrildidae	<i>Neochmia phaeton</i>	crimson finch	C			2/2

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animals	birds	Estrildidae	<i>Taeniopygia guttata</i>	zebra finch		C		1/1
animals	birds	Estrildidae	<i>Neochmia temporalis</i>	red-browed finch		C		2
animals	birds	Estrildidae	<i>Lonchura punctulata</i>	nutmeg mannikin	Y			21
animals	birds	Estrildidae	<i>Neochmia ruficauda</i>	star finch		C		3/2
animals	birds	Estrildidae	<i>Neochmia modesta</i>	plum-headed finch		C		3/2
animals	birds	Estrildidae	<i>Poephila cincta cincta</i>	black-throated finch (white-rumped subspecies)		E	E	1
animals	birds	Eurostopodidae	<i>Eurostopodus argus</i>	spotted nightjar		C		1/1
animals	birds	Falconidae	<i>Falco longipennis</i>	Australian hobby		C		10/2
animals	birds	Falconidae	<i>Falco cenchroides</i>	nankeen kestrel		C		14
animals	birds	Falconidae	<i>Falco peregrinus</i>	peregrine falcon		C		2
animals	birds	Falconidae	<i>Falco subniger</i>	black falcon		C		1
animals	birds	Falconidae	<i>Falco berigora</i>	brown falcon		C		7
animals	birds	Glareolidae	<i>Stiltia isabella</i>	Australian pratincole		C		1
animals	birds	Gruidae	<i>Grus rubicunda</i>	brologa		C		9
animals	birds	Halcyonidae	<i>Dacelo leachii</i>	blue-winged kookaburra		C		26
animals	birds	Halcyonidae	<i>Todiramphus macleayii</i>	forest kingfisher		C		32/1
animals	birds	Halcyonidae	<i>Dacelo novaeguineae</i>	laughing kookaburra		C		82
animals	birds	Halcyonidae	<i>Todiramphus sanctus</i>	sacred kingfisher		C		47
animals	birds	Hirundinidae	<i>Hirundo neoxena</i>	welcome swallow		C		49
animals	birds	Hirundinidae	<i>Petrochelidon ariel</i>	fairy martin		C		19
animals	birds	Hirundinidae	<i>Petrochelidon nigricans</i>	tree martin		C		13
animals	birds	Jacanidae	<i>Irediparra gallinacea</i>	comb-crested jacana		C		79/1
animals	birds	Laridae	<i>Anous minutus</i>	black noddy		C		2/2
animals	birds	Laridae	<i>Sterna striata</i>	white-fronted tern		C		1/1
animals	birds	Laridae	<i>Thalasseus bergii</i>	crested tern		SL		1/1
animals	birds	Laridae	<i>Hydroprogne caspia</i>	Caspian tern		SL		26
animals	birds	Laridae	<i>Sternula albifrons</i>	little tern		SL		1
animals	birds	Laridae	<i>Gelochelidon nilotica</i>	gull-billed tern		SL		11
animals	birds	Laridae	<i>Chlidonias leucopterus</i>	white-winged black tern		SL		1
animals	birds	Laridae	<i>Chroicocephalus novaehollandiae</i>	silver gull		C		23
animals	birds	Laridae	<i>Chlidonias hybrida</i>	whiskered tern		C		37/1
animals	birds	Maluridae	<i>Malurus melanocephalus</i>	red-backed fairy-wren		C		50/2
animals	birds	Maluridae	<i>Malurus cyaneus</i>	superb fairy-wren		C		2
animals	birds	Megaluridae	<i>Megalurus gramineus</i>	little grassbird		C		1
animals	birds	Megaluridae	<i>Megalurus timoriensis</i>	tawny grassbird		C		11
animals	birds	Megaluridae	<i>Cincloramphus mathewsi</i>	rufous songlark		C		3
animals	birds	Megapodiidae	<i>Alectura lathami</i>	Australian brush-turkey		C		8
animals	birds	Meliphagidae	<i>Myzomela obscura</i>	dusky honeyeater		C		5
animals	birds	Meliphagidae	<i>Stomiopera flava</i>	yellow honeyeater		C		1
animals	birds	Meliphagidae	<i>Epthianura crocea</i>	yellow chat	V			1
animals	birds	Meliphagidae	<i>Meliphaga lewinii</i>	Lewin's honeyeater		C		12/1
animals	birds	Meliphagidae	<i>Ptilotula plumula</i>	grey-fronted honeyeater		C		2
animals	birds	Meliphagidae	<i>Entomyzon cyanotis</i>	blue-faced honeyeater		C		79
animals	birds	Meliphagidae	<i>Manorina flavigula</i>	yellow-throated miner		C		3
animals	birds	Meliphagidae	<i>Philemon buceroides</i>	helmeted friarbird		C		1

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animals	birds	Meliphagidae	<i>Gavicalis versicolor</i>	varied honeyeater	C			1
animals	birds	Meliphagidae	<i>Lichmera indistincta</i>	brown honeyeater	C			78
animals	birds	Meliphagidae	<i>Melithreptus gularis</i>	black-chinned honeyeater	C			3
animals	birds	Meliphagidae	<i>Melithreptus lunatus</i>	white-naped honeyeater	C			2
animals	birds	Meliphagidae	<i>Philemon corniculatus</i>	noisy friarbird	C			25
animals	birds	Meliphagidae	<i>Ptilotula penicillata</i>	white-plumed honeyeater	C			1
animals	birds	Meliphagidae	<i>Ramsayornis fasciatus</i>	bar-breasted honeyeater	C			24
animals	birds	Meliphagidae	<i>Manorina melanocephala</i>	noisy miner	C			88
animals	birds	Meliphagidae	<i>Myzomela sanguinolenta</i>	scarlet honeyeater	C			6
animals	birds	Meliphagidae	<i>Philemon citreogularis</i>	little friarbird	C			59/3
animals	birds	Meliphagidae	<i>Gavicalis fasciogularis</i>	mangrove honeyeater	C			7
animals	birds	Meliphagidae	<i>Acanthagenys rufogularis</i>	spiny-cheeked honeyeater	C			1
animals	birds	Meliphagidae	<i>Melithreptus albogularis</i>	white-throated honeyeater	C			69/1
animals	birds	Meliphagidae	<i>Plectrorhyncha lanceolata</i>	striped honeyeater	C			4/1
animals	birds	Meliphagidae	<i>Melithreptus brevirostris</i>	brown-headed honeyeater	C			2
animals	birds	Meropidae	<i>Merops ornatus</i>	rainbow bee-eater	C			31
animals	birds	Monarchidae	<i>Carterornis leucotis</i>	white-eared monarch	C			6
animals	birds	Monarchidae	<i>Sympisiachrus trivirgatus</i>	spectacled monarch	SL			5
animals	birds	Monarchidae	<i>Monarcha melanopsis</i>	black-faced monarch	SL			3
animals	birds	Monarchidae	<i>Myiagra rubecula</i>	leaden flycatcher	C			14
animals	birds	Monarchidae	<i>Grallina cyanoleuca</i>	magpie-lark	C			182
animals	birds	Monarchidae	<i>Myiagra inquieta</i>	restless flycatcher	C			7/1
animals	birds	Motacillidae	<i>Anthus novaeseelandiae</i>	Australasian pipit	C			13
animals	birds	Nectariniidae	<i>Nectarinia jugularis</i>	olive-backed sunbird	C			1
animals	birds	Nectariniidae	<i>Dicaeum hirundinaceum</i>	mistletoebird	C			53
animals	birds	Neosittidae	<i>Daphoenositta chrysoptera</i>	varied sittella	C			2/2
animals	birds	Oriolidae	<i>Oriolus sagittatus</i>	olive-backed oriole	C			21/1
animals	birds	Oriolidae	<i>Sphecotheres vieilloti</i>	Australasian figbird	C			81
animals	birds	Otididae	<i>Ardeotis australis</i>	Australian bustard	C			3
animals	birds	Pachycephalidae	<i>Pachycephala pectoralis</i>	golden whistler	C			7/2
animals	birds	Pachycephalidae	<i>Falcunculus frontatus</i>	crested shrike-tit	C			1
animals	birds	Pachycephalidae	<i>Colluricinclla harmonica</i>	grey shrike-thrush	C			6/1
animals	birds	Pachycephalidae	<i>Pachycephala rufiventris</i>	rufous whistler	C			24
animals	birds	Pachycephalidae	<i>Colluricinclla megarhyncha</i>	little shrike-thrush	C			10/1
animals	birds	Paradisaeidae	<i>Ptiloris paradiseus</i>	paradise riflebird	C			1
animals	birds	Pardalotidae	<i>Pardalotus punctatus</i>	spotted pardalote	C			2
animals	birds	Pardalotidae	<i>Pardalotus rubricatus</i>	red-browed pardalote	C			1
animals	birds	Pardalotidae	<i>Pardalotus striatus</i>	striated pardalote	C			60/3
animals	birds	Passeridae	<i>Passer domesticus</i>	house sparrow		Y		22
animals	birds	Pelecanidae	<i>Pelecanus conspicillatus</i>	Australian pelican	C			116
animals	birds	Petroicidae	<i>Eopsaltria australis</i>	eastern yellow robin	C			1
animals	birds	Petroicidae	<i>Microeca fascinans</i>	jacky winter	C			1
animals	birds	Petroicidae	<i>Petroica rosea</i>	rose robin	C			2
animals	birds	Phalacrocoracidae	<i>Microcarbo melanoleucus</i>	little pied cormorant	C			113
animals	birds	Phalacrocoracidae	<i>Phalacrocorax sulcirostris</i>	little black cormorant	C			119
animals	birds	Phalacrocoracidae	<i>Phalacrocorax varius</i>	pied cormorant	C			34

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animals	birds	Phalacrocoracidae	<i>Phalacrocorax carbo</i>	great cormorant		C		21
animals	birds	Phasianidae	<i>Pavo cristatus</i>	Indian peafowl	Y			18
animals	birds	Phasianidae	<i>Excalfactoria chinensis</i>	king quail		C		1
animals	birds	Phasianidae	<i>Coturnix ypsilonphora</i>	brown quail		C		4
animals	birds	Phasianidae	<i>Coturnix pectoralis</i>	stubble quail		C		1
animals	birds	Podargidae	<i>Podargus strigoides</i>	tawny frogmouth		C		7/1
animals	birds	Podicipedidae	<i>Poliocephalus poliocephalus</i>	hoary-headed grebe		C		5
animals	birds	Podicipedidae	<i>Tachybaptus novaehollandiae</i>	Australasian grebe		C		114/2
animals	birds	Podicipedidae	<i>Podiceps cristatus</i>	great crested grebe		C		10
animals	birds	Pomatostomidae	<i>Pomatostomus temporalis</i>	grey-crowned babbler		C		21
animals	birds	Procellariidae	<i>Pterodroma nigripennis</i>	black-winged petrel		C		1/1
animals	birds	Psittacidae	<i>Barnardius zonarius</i>	Australian ringneck		C		1
animals	birds	Psittacidae	<i>Parvipsitta pusilla</i>	little lorikeet		C		1
animals	birds	Psittacidae	<i>Platycercus adscitus</i>	pale-headed rosella		C		80
animals	birds	Psittacidae	<i>Aprosmictus erythropterus</i>	red-winged parrot		C		22/1
animals	birds	Psittacidae	<i>Barnardius zonarius barnardi</i>	mallee ringneck		C		1
animals	birds	Psittacidae	<i>Trichoglossus chlorolepidotus</i>	scaly-breasted lorikeet		C		51
animals	birds	Psittacidae	<i>Platycercus adscitus palliceps</i>	pale-headed rosella (southern form)		C		1
animals	birds	Psittacidae	<i>Trichoglossus haematodus moluccanus</i>	rainbow lorikeet		C		119
animals	birds	Psophodidae	<i>Psophodes olivaceus</i>	eastern whipbird		C		2/2
animals	birds	Rallidae	<i>Fulica atra</i>	Eurasian coot		C		78
animals	birds	Rallidae	<i>Porzana pusilla</i>	Baillon's crake		C		2
animals	birds	Rallidae	<i>Gallirallus philippensis</i>	buff-banded rail		C		8
animals	birds	Rallidae	<i>Amaurornis moluccana</i>	pale-vented bush-hen		C		1
animals	birds	Rallidae	<i>Porphyrio melanotus</i>	purple swamphen		C		99
animals	birds	Rallidae	<i>Gallinula tenebrosa</i>	dusky moorhen		C		119
animals	birds	Rallidae	<i>Tribonyx ventralis</i>	black-tailed native-hen		C		5
animals	birds	Rallidae	<i>Porzana fluminea</i>	Australian spotted crake		C		1
animals	birds	Rallidae	<i>Porzana tabuensis</i>	spotless crake		C		1
animals	birds	Recurvirostridae	<i>Himantopus himantopus</i>	black-winged stilt		C		81
animals	birds	Recurvirostridae	<i>Recurvirostra novaehollandiae</i>	red-necked avocet		C		11
animals	birds	Rhipiduridae	<i>Rhipidura leucophrys</i>	willie wagtail		C		105
animals	birds	Rhipiduridae	<i>Rhipidura rufifrons</i>	rufous fantail		SL		7
animals	birds	Rhipiduridae	<i>Rhipidura albiscapa</i>	grey fantail		C		45
animals	birds	Rostratulidae	<i>Rostratula australis</i>	Australian painted snipe	V	E		6/2
animals	birds	Scolopacidae	<i>Calidris acuminata</i>	sharp-tailed sandpiper	SL			21
animals	birds	Scolopacidae	<i>Gallinago hardwickii</i>	Latham's snipe	SL			37/2
animals	birds	Scolopacidae	<i>Calidris ruficollis</i>	red-necked stint	SL			1
animals	birds	Scolopacidae	<i>Limosa limosa</i>	black-tailed godwit	SL			16
animals	birds	Scolopacidae	<i>Tringa nebularia</i>	common greenshank	SL			4
animals	birds	Scolopacidae	<i>Limosa lapponica baueri</i>	Western Alaskan bar-tailed godwit	V	V		3
animals	birds	Scolopacidae	<i>Tringa stagnatilis</i>	marsh sandpiper	SL			35
animals	birds	Scolopacidae	<i>Calidris ferruginea</i>	curlew sandpiper	E	CE		5
animals	birds	Strigidae	<i>Ninox connivens</i>	barking owl	C			1/1
animals	birds	Strigidae	<i>Ninox boobook</i>	southern boobook	C			2
animals	birds	Sturnidae	<i>Sturnus vulgaris</i>	common starling	Y			7

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
animals	birds	Threskiornithidae	<i>Platalea regia</i>	royal spoonbill	C			99/1
animals	birds	Threskiornithidae	<i>Threskiornis molucca</i>	Australian white ibis	C			132/1
animals	birds	Threskiornithidae	<i>Plegadis falcinellus</i>	glossy ibis	SL			47
animals	birds	Threskiornithidae	<i>Platalea flavipes</i>	yellow-billed spoonbill	C			45
animals	birds	Threskiornithidae	<i>Threskiornis spinicollis</i>	straw-necked ibis	C			114
animals	birds	Timaliidae	<i>Zosterops lateralis</i>	silverseye	C			10
animals	birds	Turnicidae	<i>Turnix melanogaster</i>	black-breasted button-quail	V	V		2
animals	birds	Turnicidae	<i>Turnix varius</i>	painted button-quail	C			1
animals	birds	Tytonidae	<i>Tyto delacatula</i>	eastern barn owl	C			4/2
animals	insects	Lycaenidae	<i>Jalmenus eubulus</i>	pale imperial hairstreak	V			2
animals	mammals	Acrobatidae	<i>Acrobates pygmaeus</i>	feathertail glider	C			2
animals	mammals	Canidae	<i>Canis sp.</i>		Y			1
animals	mammals	Canidae	<i>Vulpes vulpes</i>	red fox	Y			3
animals	mammals	Canidae	<i>Canis lupus familiaris</i>	dog	Y			1
animals	mammals	Dasyuridae	<i>Phascogale tapoatafa tapoatafa</i>	brush-tailed phascogale	C			1
animals	mammals	Dasyuridae	<i>Planigale ingrami</i>	long-tailed planigale	C			1
animals	mammals	Leporidae	<i>Oryctolagus cuniculus</i>	rabbit	Y			1
animals	mammals	Leporidae	<i>Lepus europaeus</i>	European brown hare	Y			1
animals	mammals	Macropodidae	<i>Macropus giganteus</i>	eastern grey kangaroo	C			3
animals	mammals	Macropodidae	<i>Macropus parryi</i>	whiptail wallaby	C			3
animals	mammals	Macropodidae	<i>Macropus dorsalis</i>	black-striped wallaby	C			2
animals	mammals	Macropodidae	<i>Macropus agilis</i>	agile wallaby	C			3
animals	mammals	Macropodidae	<i>Petrogale inornata</i>	unadorned rock-wallaby	C			6/4
animals	mammals	Megadermatidae	<i>Macroderma gigas</i>	ghost bat	E	V		1
animals	mammals	Miniopteridae	<i>Miniopterus schreibersii oceanensis</i>	eastern bent-wing bat	C			4/2
animals	mammals	Miniopteridae	<i>Miniopterus australis</i>	little bent-wing bat	C			4
animals	mammals	Molossidae	<i>Tadarida australis</i>	white-striped freetail bat	C			1
animals	mammals	Molossidae	<i>Mormopterus ridei</i>	eastern free-tailed bat	C			1
animals	mammals	Molossidae	<i>Chaerephon jobensis</i>	northern freetail bat	C			3
animals	mammals	Muridae	<i>Hydromys chrysogaster</i>	water rat	C			10/1
animals	mammals	Muridae	<i>Melomys sp.</i>					1
animals	mammals	Muridae	<i>Mus musculus</i>	house mouse	Y			1
animals	mammals	Ornithorhynchidae	<i>Ornithorhynchus anatinus</i>	platypus	SL			2
animals	mammals	Peramelidae	<i>Perameles nasuta</i>	long-nosed bandicoot	C			1
animals	mammals	Peramelidae	<i>Isoodon macrourus</i>	northern brown bandicoot	C			6
animals	mammals	Petauridae	<i>Petaurus breviceps</i>	sugar glider	C			1
animals	mammals	Petauridae	<i>Petaurus norfolkensis</i>	squirrel glider	C			2/1
animals	mammals	Phalangeridae	<i>Trichosurus vulpecula</i>	common brushtail possum	C			11
animals	mammals	Phascolarctidae	<i>Phascolarctos cinereus</i>	koala	V	V		3
animals	mammals	Potoroidae	<i>Aepyprymnus rufescens</i>	rufous bettong	C			3
animals	mammals	Pseudocheiridae	<i>Pseudocheirus peregrinus</i>	common ringtail possum	C			2
animals	mammals	Pteropodidae	<i>Pteropus sp.</i>					1
animals	mammals	Pteropodidae	<i>Pteropus alecto</i>	black flying-fox	C			3
animals	mammals	Suidae	<i>Sus scrofa</i>	pig	Y			1
animals	mammals	Tachyglossidae	<i>Tachyglossus aculeatus</i>	short-beaked echidna	SL			8/1
animals	mammals	Vespertilionidae	<i>Nyctophilus sp.</i>					1

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animals	mammals	Vespertilionidae	<i>Scotorepens greyii</i>	little broad-nosed bat	C			2
animals	mammals	Vespertilionidae	<i>Chalinolobus gouldii</i>	Gould's wattled bat	C			3
animals	mammals	Vespertilionidae	<i>Vespadelus sp.</i>					1
animals	ray-finned fishes	Ambassidae	<i>Ambassis agassizii</i>	Agassiz's glassfish				12/1
animals	ray-finned fishes	Anguillidae	<i>Anguilla reinhardtii</i>	longfin eel				14
animals	ray-finned fishes	Apogonidae	<i>Glossamia aprion</i>	mouth almighty				3
animals	ray-finned fishes	Ariidae	<i>Neoarius graeffei</i>	blue catfish				1
animals	ray-finned fishes	Atherinidae	<i>Craterocephalus stercusmuscarum</i>	flyspecked hardyhead				11
animals	ray-finned fishes	Belonidae	<i>Strongylura krefftii</i>	freshwater longtom				2
animals	ray-finned fishes	Centropomidae	<i>Lates calcarifer</i>	barramundi				5
animals	ray-finned fishes	Cichlidae	<i>Oreochromis mossambica</i>	Mozambique mouthbrooder	Y			4
animals	ray-finned fishes	Clupeidae	<i>Nematalosa erebi</i>	bony bream				11
animals	ray-finned fishes	Eleotridae	<i>Gobiomorphus australis</i>	striped gudgeon				1
animals	ray-finned fishes	Eleotridae	<i>Hypseleotris compressa</i>	empire gudgeon				10
animals	ray-finned fishes	Eleotridae	<i>Oxyeleotris lineolata</i>	sleepy cod				5
animals	ray-finned fishes	Eleotridae	<i>Hypseleotris galii</i>	firetail gudgeon				7
animals	ray-finned fishes	Eleotridae	<i>Hypseleotris klunzingeri</i>	western carp gudgeon				2
animals	ray-finned fishes	Eleotridae	<i>Mogurnda adspersa</i>	southern purplespotted gudgeon				7/1
animals	ray-finned fishes	Hemiramphidae	<i>Arrhamphus sclerolepis</i>	snubnose garfish				2
animals	ray-finned fishes	Megalopidae	<i>Megalops cyprinoides</i>	oxeye herring				1
animals	ray-finned fishes	Melanotaeniidae	<i>Melanotaenia splendida splendida</i>	eastern rainbowfish				12/1
animals	ray-finned fishes	Mugilidae	<i>Trachystoma petardi</i>	pinkeye mullet				1
animals	ray-finned fishes	Mugilidae	<i>Mugil cephalus</i>	sea mullet				5
animals	ray-finned fishes	Osteoglossidae	<i>Scleropages leichardti</i>	southern saratoga				1
animals	ray-finned fishes	Percichthyidae	<i>Macquaria ambigua</i>	golden perch				1
animals	ray-finned fishes	Plotosidae	<i>Neosilurus hyrtlii</i>	Hyrtl's catfish				1
animals	ray-finned fishes	Poeciliidae	<i>Gambusia holbrookii</i>	mosquitofish	Y			7
animals	ray-finned fishes	Poeciliidae	<i>Poecilia reticulata</i>	guppy	Y			4
animals	ray-finned fishes	Pseudomugilidae	<i>Pseudomugil signifer</i>	Pacific blue eye				1
animals	ray-finned fishes	Scorpaenidae	<i>Notesthes robusta</i>	bullrout				1
animals	ray-finned fishes	Synbranchidae	<i>Ophisternon gutturale</i>	swamp eel				2
animals	ray-finned fishes	Terapontidae	<i>Leiopotherapon unicolor</i>	spangled perch				9
animals	ray-finned fishes	Terapontidae	<i>Scortum hillii</i>	leathery grunter				2
animals	ray-finned fishes	Terapontidae	<i>Amniataba percoides</i>	barred grunter				9
animals	reptiles	Agamidae	<i>Intellagama lesueuri</i>	eastern water dragon	C			2
animals	reptiles	Agamidae	<i>Chlamydosaurus kingii</i>	frilled lizard	C			1
animals	reptiles	Agamidae	<i>Pogona barbata</i>	bearded dragon	C			1
animals	reptiles	Boidae	<i>Morelia spilota</i>	carpet python	C			1
animals	reptiles	Boidae	<i>Antaresia maculosa</i>	spotted python	C			4/2
animals	reptiles	Carphodactylidae	<i>Nephrurus asper</i>	spiny knob-tailed gecko	C			1/1
animals	reptiles	Chelidae	<i>Chelodina longicollis</i>	eastern snake-necked turtle	C			2
animals	reptiles	Chelidae	<i>Chelodina expansa</i>	broad-shelled river turtle	C			4
animals	reptiles	Chelidae	<i>Emydura macquarii krefftii</i>	Krefft's river turtle	C			14/1
animals	reptiles	Colubridae	<i>Tropidonophis mairii</i>	freshwater snake	C			13/6
animals	reptiles	Colubridae	<i>Dendrelaphis punctulatus</i>	green tree snake	C			9/6
animals	reptiles	Colubridae	<i>Boiga irregularis</i>	brown tree snake	C			1

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animals	reptiles	Crocodylidae	<i>Crocodylus porosus</i>	estuarine crocodile	V			1
animals	reptiles	Diplodactylidae	<i>Oedura tryoni</i>	southern spotted velvet gecko	C			1/1
animals	reptiles	Diplodactylidae	<i>Oedura monilis</i>	ocellated velvet gecko	C			2/2
animals	reptiles	Diplodactylidae	<i>Amalosia rhombifer</i>	zig-zag gecko	C			2/1
animals	reptiles	Elapidae	<i>Suta suta</i>	myall snake	C			1/1
animals	reptiles	Elapidae	<i>Demansia vestigiata</i>	lesser black whipsnake	C			3/3
animals	reptiles	Elapidae	<i>Pseudechis guttatus</i>	spotted black snake	C			1/1
animals	reptiles	Elapidae	<i>Pseudonaja textilis</i>	eastern brown snake	C			4/1
animals	reptiles	Elapidae	<i>Vermicella annulata</i>	bandy-bandy	C			2/1
animals	reptiles	Elapidae	<i>Pseudechis australis</i>	king brown snake	C			1
animals	reptiles	Elapidae	<i>Oxyuranus scutellatus</i>	coastal taipan	C			1
animals	reptiles	Elapidae	<i>Pseudechis porphyriacus</i>	red-bellied black snake	C			2/1
animals	reptiles	Elapidae	<i>Cryptophis nigrostriatus</i>	black-striped snake	C			2/2
animals	reptiles	Elapidae	<i>Hoplocephalus bitorquatus</i>	pale-headed snake	C			11/11
animals	reptiles	Elapidae	<i>Cacophis harriettae</i>	white-crowned snake	C			2
animals	reptiles	Elapidae	<i>Cryptophis boschmai</i>	Carpentaria whip snake	C			3/3
animals	reptiles	Elapidae	<i>Furina diadema</i>	red-naped snake	C			7/3
animals	reptiles	Elapidae	<i>Hemiaspis damelii</i>	grey snake	E			15/11
animals	reptiles	Elapidae	<i>Demansia psammophis</i>	yellow-faced whipsnake	C			1
animals	reptiles	Elapidae	<i>Denisonia maculata</i>	ornamental snake	V	V		20/19
animals	reptiles	Elapidae	<i>Hemiaspis signata</i>	black-bellied swamp snake	C			1
animals	reptiles	Gekkonidae	<i>Hemidactylus frenatus</i>	house gecko	Y			3
animals	reptiles	Gekkonidae	<i>Gehyra dubia</i>	dubious dtella	C			3
animals	reptiles	Gekkonidae	<i>Heteronotia binoei</i>	Bynoe's gecko	C			2/2
animals	reptiles	Pygopodidae	<i>Delma tintca</i>	excitable delma	C			7
animals	reptiles	Pygopodidae	<i>Lialis burtonis</i>	Burton's legless lizard	C			3/1
animals	reptiles	Pygopodidae	<i>Pygopus schraderi</i>	eastern hooded scaly-foot	C			1/1
animals	reptiles	Pygopodidae	<i>Pygopus lepidopodus</i>	common scaly-foot	C			1/1
animals	reptiles	Scincidae	<i>Ctenotus spaldingi</i>	straight-browed ctenotus	C			1/1
animals	reptiles	Scincidae	<i>Carlia munda</i>	shaded-litter rainbow-skink	C			1/1
animals	reptiles	Scincidae	<i>Carlia vivax</i>	tussock rainbow-skink	C			1/1
animals	reptiles	Scincidae	<i>Eulamprus quoyii</i>	eastern water skink	C			7/5
animals	reptiles	Scincidae	<i>Carlia schmeltzii</i>	robust rainbow-skink	C			7/6
animals	reptiles	Scincidae	<i>Concinnia martini</i>	dark bar-sided skink	C			1/1
animals	reptiles	Scincidae	<i>Bellatorias frerei</i>	major skink	C			1/1
animals	reptiles	Scincidae	<i>Cryptoblepharus virgatus sensu lato</i>		C			4/2
animals	reptiles	Scincidae	<i>Tiliqua scincoides</i>	eastern blue-tongued lizard	C			2
animals	reptiles	Scincidae	<i>Cryptoblepharus sp.</i>		C			1
animals	reptiles	Scincidae	<i>Lygisaurus foliorum</i>	tree-base litter-skink	C			2/2
animals	reptiles	Scincidae	<i>Ctenotus taeniatus</i>	copper-tailed skink	C			1
animals	reptiles	Scincidae	<i>Lampropholis delicata</i>	dark-flecked garden sunskink	C			2/1
animals	reptiles	Scincidae	<i>Anomalopus brevirostris</i>	short-necked worm-skink	C			31/31
animals	reptiles	Scincidae	<i>Cyclodomorphus gerrardii</i>	pink-tongued lizard	C			6/6
animals	reptiles	Scincidae	<i>Eremiascincus fasciolatus</i>	narrow-banded sand swimmer	C			1/1
animals	reptiles	Scincidae	<i>Glaphyromorphus punctulatus</i>	fine-spotted mulch-skink	C			1/1
animals	reptiles	Scincidae	<i>Carlia pectoralis sensu lato</i>		C			1/1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	A	Records
animals	reptiles	Scincidae	<i>Cryptoblepharus pulcher pulcher</i>	elegant snake-eyed skink	C			7
animals	reptiles	Typhlopidae	<i>Anilios unguirostris</i>	claw-snouted blind snake	C			1/1
animals	uncertain	Indeterminate	<i>Indeterminate</i>	Unknown or Code Pending	C			2
bacteria	blue-green algae	Aphanizomenonaceae	<i>Aphanizomenon flos-aquae</i>		C			1/1
fungi	Agaricomycetes	Agaricaceae	<i>Bovista aestivalis</i>		C			1/1
fungi	Agaricomycetes	Agaricaceae	<i>Leucoagaricus fimetarius</i>		C			1/1
fungi	Agaricomycetes	Gastraceae	<i>Gastrum triplex</i>		C			1/1
fungi	Agaricomycetes	Polyporaceae	<i>Hexagonia hirta</i>		C			2/2
fungi	Agaricomycetes	Polyporaceae	<i>Loweporus tephroporus</i>		C			1/1
fungi	Agaricomycetes	Strophariaceae	<i>Psilocybe cubensis</i>		C			1/1
fungi	Arthoniomycetes	Chrysotrichaceae	<i>Chrysotrix xanthina</i>		C			1/1
fungi	Lecanoromycetes	Caliciaceae	<i>Buellia</i>		C			1/1
fungi	Lecanoromycetes	Caliciaceae	<i>Dirinaria confluens</i>		C			1/1
fungi	Lecanoromycetes	Haematommataceae	<i>Haematomma</i>		C			1/1
fungi	Lecanoromycetes	Lecanoraceae	<i>Lecanora</i>		C			1/1
fungi	Lecanoromycetes	Parmeliaceae	<i>Parmotrema tinctorum</i>		C			1/1
fungi	Lecanoromycetes	Peltigeraceae	<i>Peltigera polydactylon</i>		C			1/1
fungi	Lecanoromycetes	Pertusariaceae	<i>Pertusaria</i>		C			1/1
plants	Charophyceae	Characeae	<i>Nitella myriotricha</i>		C			1/1
plants	Equisetopsida	Acanthaceae	<i>Justicia betonica</i>		Y			3/3
plants	Equisetopsida	Acanthaceae	<i>Graptophyllum excelsum</i>			NT		4/4
plants	Equisetopsida	Acanthaceae	<i>Thunbergia grandiflora</i>	sky flower	Y			1/1
plants	Equisetopsida	Acanthaceae	<i>Harnieria hygrophiloides</i>	white karambal	C			2/2
plants	Equisetopsida	Acanthaceae	<i>Pseuderanthemum tenellum</i>		C			1
plants	Equisetopsida	Acanthaceae	<i>Rostellularia adscendens</i>		C			4
plants	Equisetopsida	Acanthaceae	<i>Pseuderanthemum variabile</i>		C			1
plants	Equisetopsida	Acanthaceae	<i>Asystasia gangetica subsp. gangetica</i>		Y			1/1
plants	Equisetopsida	Acanthaceae	<i>Hypoestes floribunda var. floribunda</i>		C			1/1
plants	Equisetopsida	Acanthaceae	<i>Avicennia marina subsp. eucalyptifolia</i>		C			1/1
plants	Equisetopsida	Acanthaceae	<i>Rostellularia adscendens var. adscendens</i>		C			1/1
plants	Equisetopsida	Acanthaceae	<i>Graptophyllum</i>		C			1
plants	Equisetopsida	Acanthaceae	<i>Ruellia simplex</i>			Y		1/1
plants	Equisetopsida	Agavaceae	<i>Furcraea foetida</i>			Y		1/1
plants	Equisetopsida	Agavaceae	<i>Agave sisalana</i>			Y		1
plants	Equisetopsida	Aizoaceae	<i>Trianthema portulacastrum</i>			Y		4/3
plants	Equisetopsida	Amaranthaceae	<i>Alternanthera ficoidea</i>			Y		1/1
plants	Equisetopsida	Amaranthaceae	<i>Alternanthera denticulata</i>			C		1/1
plants	Equisetopsida	Amaranthaceae	<i>Gomphrena celosioides</i>	lesser joyweed		Y		4/4
plants	Equisetopsida	Amaranthaceae	<i>Alternanthera pungens</i>	gomphrena weed		Y		1/1
plants	Equisetopsida	Amaranthaceae	<i>Amaranthus viridis</i>	khaki weed		Y		7/6
plants	Equisetopsida	Amaranthaceae	<i>Achyranthes aspera</i>	green amaranth		Y		2
plants	Equisetopsida	Amaranthaceae	<i>Guillemina densa</i>			Y		2/2
plants	Equisetopsida	Amaranthaceae	<i>Alternanthera</i>	small matweed		C		1
plants	Equisetopsida	Amaryllidaceae	<i>Zephyranthes citrina</i>			Y		1/1
plants	Equisetopsida	Anacardiaceae	<i>Pleiogynium timorense</i>	Burdekin plum		C		4/1
plants	Equisetopsida	Anacardiaceae	<i>Schinus terebinthifolius</i>			Y		4/4

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plants	Equisetopsida	Anacardiaceae	<i>Euroschinus falcatus</i>			C		9
plants	Equisetopsida	Anacardiaceae	<i>Mangifera indica</i>	mango	Y			5/4
plants	Equisetopsida	Anacardiaceae	<i>Euroschinus falcatus var. falcatus</i>			C		1/1
plants	Equisetopsida	Annonaceae	<i>Polyalthia nitidissima</i>			C		3
plants	Equisetopsida	Annonaceae	<i>Melodorum leichhardtii</i>			C		4/1
plants	Equisetopsida	Apiaceae	<i>Cyclospermum leptophyllum</i>		Y			2/2
plants	Equisetopsida	Apocynaceae	<i>Parsonsia lanceolata</i>			C		3/3
plants	Equisetopsida	Apocynaceae	<i>Asclepias curassavica</i>	northern silkpod red-head cottonbush	Y			5/5
plants	Equisetopsida	Apocynaceae	<i>Rauvolfia tetraphylla</i>		Y			6/6
plants	Equisetopsida	Apocynaceae	<i>Parsonsia paulforsteri</i>			C		2/1
plants	Equisetopsida	Apocynaceae	<i>Gomphocarpus fruticosus</i>	narrow-leaved cotton bush	Y			1
plants	Equisetopsida	Apocynaceae	<i>Parsonsia plaesiophylla</i>			C		2/1
plants	Equisetopsida	Apocynaceae	<i>Cryptostegia grandiflora</i>	rubber vine	Y			10/6
plants	Equisetopsida	Apocynaceae	<i>Gomphocarpus physocarpus</i>	balloon cottonbush	Y			3/2
plants	Equisetopsida	Apocynaceae	<i>Hoya australis subsp. australis</i>			C		1/1
plants	Equisetopsida	Apocynaceae	<i>Cynanchum viminale subsp. australe</i>			C		1
plants	Equisetopsida	Apocynaceae	<i>Cynanchum viminale subsp. brunonianum</i>			C		1/1
plants	Equisetopsida	Apocynaceae	<i>Carissa ovata</i>	currantbush		C		6
plants	Equisetopsida	Apocynaceae	<i>Hoya australis</i>			C		3
plants	Equisetopsida	Apocynaceae	<i>Parsonsia rotata</i>	veinless silkpod		C		1/1
plants	Equisetopsida	Apocynaceae	<i>Marsdenia micradenia</i>	gymnema		C		2/2
plants	Equisetopsida	Apocynaceae	<i>Alyxia ruscifolia</i>			C		6
plants	Equisetopsida	Apocynaceae	<i>Alstonia constricta</i>	bitterbark		C		3
plants	Equisetopsida	Apocynaceae	<i>Catharanthus roseus</i>	pink periwinkle	Y			3/3
plants	Equisetopsida	Apocynaceae	<i>Cascabela thevetia</i>	yellow oleander	Y			6/6
plants	Equisetopsida	Apocynaceae	<i>Cynanchum viminale</i>			C		1
plants	Equisetopsida	Apocynaceae	<i>Parsonsia velutina</i>	hairy silkpod		C		2
plants	Equisetopsida	Apocynaceae	<i>Secamone elliptica</i>			C		3
plants	Equisetopsida	Araceae	<i>Pistia stratiotes</i>	water lettuce	Y			1/1
plants	Equisetopsida	Araceae	<i>Gymnostachys anceps</i>	settler's flax		C		4/1
plants	Equisetopsida	Araceae	<i>Syngonium podophyllum</i>		Y			1/1
plants	Equisetopsida	Araliaceae	<i>Schefflera actinophylla</i>	umbrella tree		C		4
plants	Equisetopsida	Araliaceae	<i>Hydrocotyle acutiloba</i>			C		1/1
plants	Equisetopsida	Araliaceae	<i>Polyscias elegans</i>	celery wood		C		4
plants	Equisetopsida	Arecaceae	<i>Livistona australis</i>	cabbage tree palm		C		1
plants	Equisetopsida	Arecaceae	<i>Archontophoenix cunninghamiana</i>	piccabeen palm		C		1
plants	Equisetopsida	Arecaceae	<i>Livistona drudei</i>	Halifax fan palm		V		1
plants	Equisetopsida	Arecaceae	<i>Livistona decora</i>			C		3
plants	Equisetopsida	Aristolochiaceae	<i>Aristolochia elegans</i>	calico-flower	Y			1/1
plants	Equisetopsida	Asparagaceae	<i>Asparagus racemosus</i>	native asparagus		C		1/1
plants	Equisetopsida	Aspleniaceae	<i>Asplenium paleaceum</i>	scaly asplenium		C		4/2
plants	Equisetopsida	Asteraceae	<i>Ageratum</i>			C		1
plants	Equisetopsida	Asteraceae	<i>Bidens pilosa</i>		Y			4/3
plants	Equisetopsida	Asteraceae	<i>Calotis cuneata</i>			C		1/1
plants	Equisetopsida	Asteraceae	<i>Cirsium vulgare</i>	spear thistle	Y			1/1
plants	Equisetopsida	Asteraceae	<i>Camptacra barbata</i>			C		2/2

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plants	Equisetopsida	Asteraceae	<i>Eclipta prostrata</i>	white eclipta	Y			1/1
plants	Equisetopsida	Asteraceae	<i>Schkuhria pinnata</i>		Y			1/1
plants	Equisetopsida	Asteraceae	<i>Sonchus oleraceus</i>	common sowthistle	Y			2/2
plants	Equisetopsida	Asteraceae	<i>Tridax procumbens</i>	tridax daisy	Y			2/1
plants	Equisetopsida	Asteraceae	<i>Emilia sonchifolia</i>		Y			1
plants	Equisetopsida	Asteraceae	<i>Podolepis neglecta</i>		C			1/1
plants	Equisetopsida	Asteraceae	<i>Soliva anthemifolia</i>	dwarf jo jo weed	Y			1/1
plants	Equisetopsida	Asteraceae	<i>Wollastonia biflora</i>		C			1
plants	Equisetopsida	Asteraceae	<i>Calyptrocarpus vialis</i>	creeping cinderella weed	Y			5/5
plants	Equisetopsida	Asteraceae	<i>Erigeron bonariensis</i>		Y			2/1
plants	Equisetopsida	Asteraceae	<i>Erigeron sumatrensis</i>		Y			1/1
plants	Equisetopsida	Asteraceae	<i>Xanthium occidentale</i>		Y			2/1
plants	Equisetopsida	Asteraceae	<i>Cyanthillium cinereum</i>		C			3/1
plants	Equisetopsida	Asteraceae	<i>Senecio brigalowensis</i>		C			2/2
plants	Equisetopsida	Asteraceae	<i>Senecio prenanthoides</i>		C			1/1
plants	Equisetopsida	Asteraceae	<i>Sigesbeckia orientalis</i>	Indian weed	C			2
plants	Equisetopsida	Asteraceae	<i>Xerochrysum bracteatum</i>	golden everlasting daisy	C			1
plants	Equisetopsida	Asteraceae	<i>Eschenbachia aegyptiaca</i>		C			2/2
plants	Equisetopsida	Asteraceae	<i>Ozothamnus cassinoides</i>		C			1/1
plants	Equisetopsida	Asteraceae	<i>Sphagneticola trilobata</i>		Y			2/2
plants	Equisetopsida	Asteraceae	<i>Parthenium hysterophorus</i>	parthenium weed	Y			3/3
plants	Equisetopsida	Asteraceae	<i>Sympycotrichum subulatum</i>		Y			1/1
plants	Equisetopsida	Asteraceae	<i>Chrysoccephalum apiculatum</i>	yellow buttons	C			2/1
plants	Equisetopsida	Asteraceae	<i>Synedrella spinosa grisebachii</i>		Y			1/1
plants	Equisetopsida	Asteraceae	<i>Apowallonia spilanthoides</i>		C			3/1
plants	Equisetopsida	Asteraceae	<i>Peripleura hispidula var. setosa</i>		C			2/1
plants	Equisetopsida	Bignoniaceae	<i>Pandorea pandorana</i>	wonga vine	C			4
plants	Equisetopsida	Bignoniaceae	<i>Tecoma stans</i>	tecoma	Y			1
plants	Equisetopsida	Bignoniaceae	<i>Spathodea campanulata subsp. nilotica</i>		Y			1/1
plants	Equisetopsida	Boraginaceae	<i>Cordia dichotoma</i>		C			4/2
plants	Equisetopsida	Boraginaceae	<i>Cordia sinensis</i>		Y			6/6
plants	Equisetopsida	Boraginaceae	<i>Heliotropium indicum</i>		Y			3/3
plants	Equisetopsida	Boraginaceae	<i>Heliotropium amplexicaule</i>	blue heliotrope	Y			1/1
plants	Equisetopsida	Boraginaceae	<i>Trichodesma zeylanicum</i>		C			2
plants	Equisetopsida	Brassicaceae	<i>Lepidium bonariense</i>	Argentine peppercress	Y			4/3
plants	Equisetopsida	Bryophyte	<i>Bryophyte</i>		C			1/1
plants	Equisetopsida	Bytneriaceae	<i>Seringia</i>		C			1/1
plants	Equisetopsida	Cactaceae	<i>Opuntia stricta</i>		Y			5/2
plants	Equisetopsida	Cactaceae	<i>Harrisia martinii</i>		Y			1
plants	Equisetopsida	Cactaceae	<i>Opuntia tomentosa</i>	velvety tree pear	Y			1/1
plants	Equisetopsida	Cactaceae	<i>Opuntia streptacantha</i>	cardona pear	Y			1/1
plants	Equisetopsida	Caesalpiniaceae	<i>Caesalpinia</i>		C			1
plants	Equisetopsida	Caesalpiniaceae	<i>Senna pendula var. glabrata</i>	Easter cassia	Y			4/4
plants	Equisetopsida	Caesalpiniaceae	<i>Haematoxylum campechianum</i>	logwood tree	Y			3/3
plants	Equisetopsida	Caesalpiniaceae	<i>Peltophorum pterocarpum</i>	yellow poinciana	Y			5/4
plants	Equisetopsida	Caesalpiniaceae	<i>Mezoneuron scorchedianum</i>		C			1

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plants	Equisetopsida	Caesalpiniaceae	<i>Chamaecrista mimosoides</i>	dwarf cassia		C		1
plants	Equisetopsida	Caesalpiniaceae	<i>Schotia brachypetala</i>	kaffir bean	Y			1/1
plants	Equisetopsida	Caesalpiniaceae	<i>Parkinsonia aculeata</i>	parkinsonia		Y		4/4
plants	Equisetopsida	Caesalpiniaceae	<i>Barklya syringifolia</i>	golden shower tree		C		2/1
plants	Equisetopsida	Caesalpiniaceae	<i>Lysiphyllum hookeri</i>	Queensland ebony		C		3/1
plants	Equisetopsida	Caesalpiniaceae	<i>Senna gaudichaudii</i>			C		2/1
plants	Equisetopsida	Caesalpiniaceae	<i>Bauhinia variegata</i>		Y			3/3
plants	Equisetopsida	Caesalpiniaceae	<i>Tamarindus indica</i>		Y			4/4
plants	Equisetopsida	Caesalpiniaceae	<i>Chamaecrista absus var. absus</i>			C		1
plants	Equisetopsida	Caesalpiniaceae	<i>Lysiphyllum</i>			C		1
plants	Equisetopsida	Caesalpiniaceae	<i>Senna alata</i>			Y		1/1
plants	Equisetopsida	Caesalpiniaceae	<i>Delonix regia</i>	poinciana		Y		2/2
plants	Equisetopsida	Caesalpiniaceae	<i>Senna barclayana</i>			C		2/2
plants	Equisetopsida	Campanulaceae	<i>Wahlenbergia</i>			C		1
plants	Equisetopsida	Campanulaceae	<i>Lobelia stenophylla</i>			C		1/1
plants	Equisetopsida	Capparaceae	<i>Capparis lucida</i>			C		1
plants	Equisetopsida	Capparaceae	<i>Capparis arborea</i>	brush caper berry		C		3
plants	Equisetopsida	Capparaceae	<i>Capparis canescens</i>			C		2
plants	Equisetopsida	Capparaceae	<i>Capparis lasiantha</i>	nipan		C		1/1
plants	Equisetopsida	Capparaceae	<i>Capparis loranthifolia</i>			C		2
plants	Equisetopsida	Capparaceae	<i>Capparis ornans</i>			C		2/1
plants	Equisetopsida	Caricaceae	<i>Carica papaya</i>	pawpaw	Y			1/1
plants	Equisetopsida	Casuarinaceae	<i>Casuarina cunninghamiana subsp. cunninghamiana</i>			C		1
plants	Equisetopsida	Casuarinaceae	<i>Casuarina cunninghamiana</i>			C		1
plants	Equisetopsida	Casuarinaceae	<i>Casuarina</i>			C		1
plants	Equisetopsida	Casuarinaceae	<i>Allocasuarina torulosa</i>			C		8/1
plants	Equisetopsida	Celastraceae	<i>Celastraceae</i>			C		1
plants	Equisetopsida	Celastraceae	<i>Siphonodon australis</i>	ivorywood		C		1
plants	Equisetopsida	Celastraceae	<i>Denhamia cunninghamii</i>			C		1
plants	Equisetopsida	Celastraceae	<i>Denhamia pittosporoides</i>			C		2
plants	Equisetopsida	Celastraceae	<i>Elaeodendron melanocarpum</i>			C		3
plants	Equisetopsida	Celastraceae	<i>Elaeodendron australe var. integrifolium</i>			C		1/1
plants	Equisetopsida	Celastraceae	<i>Denhamia pittosporoides subsp. pittosporoides</i>			C		2/2
plants	Equisetopsida	Ceratophyllaceae	<i>Ceratophyllum demersum</i>	hornwort		C		3/1
plants	Equisetopsida	Chenopodiaceae	<i>Einadia trigonos subsp. stellulata</i>			C		2/1
plants	Equisetopsida	Chenopodiaceae	<i>Einadia nutans subsp. linifolia</i>			C		1/1
plants	Equisetopsida	Cleomaceae	<i>Cleome</i>			C		1/1
plants	Equisetopsida	Colchicaceae	<i>Iphigenia</i>			C		1
plants	Equisetopsida	Colchicaceae	<i>Iphigenia indica</i>			C		2/2
plants	Equisetopsida	Combretaceae	<i>Terminalia porphyrocarpa</i>			C		5/1
plants	Equisetopsida	Commelinaceae	<i>Commelina lanceolata</i>			C		1
plants	Equisetopsida	Commelinaceae	<i>Tradescantia pallida</i>		Y			1/1
plants	Equisetopsida	Commelinaceae	<i>Anelilema acuminatum</i>			C		1/1
plants	Equisetopsida	Commelinaceae	<i>Murdannia graminea</i>	murdannia		C		1
plants	Equisetopsida	Commelinaceae	<i>Commelina diffusa</i>	wandering jew		C		3
plants	Equisetopsida	Commelinaceae	<i>Callisia repens</i>		Y			1/1

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plants	Equisetopsida	Convolvulaceae	<i>Ipomoea polymorpha</i>			C		2/1
plants	Equisetopsida	Convolvulaceae	<i>Distimake dissectus</i>		Y			3/3
plants	Equisetopsida	Convolvulaceae	<i>Ipomoea carnea</i> subsp. <i>fistulosa</i>			Y		3/3
plants	Equisetopsida	Convolvulaceae	<i>Polymeria</i> sp. (Rockhampton E.R.Anderson 3944)				C	1/1
plants	Equisetopsida	Convolvulaceae	<i>Polymeria pusilla</i>				C	1/1
plants	Equisetopsida	Convolvulaceae	<i>Cuscuta australis</i>	Australian dodder			C	1/1
plants	Equisetopsida	Convolvulaceae	<i>Ipomoea aquatica</i>				C	1/1
plants	Equisetopsida	Convolvulaceae	<i>Polymeria</i>				C	1
plants	Equisetopsida	Convolvulaceae	<i>Dichondra</i>				C	1/1
plants	Equisetopsida	Cornaceae	<i>Alangium villosum</i> subsp. <i>tomentosum</i>				C	4/1
plants	Equisetopsida	Crassulaceae	<i>Bryophyllum x houghtonii</i>		Y			1/1
plants	Equisetopsida	Crassulaceae	<i>Bryophyllum delagoense</i>		Y			2/2
plants	Equisetopsida	Cucurbitaceae	<i>Coccinia grandis</i>			Y		1/1
plants	Equisetopsida	Cycadaceae	<i>Cycas</i>				C	1
plants	Equisetopsida	Cycadaceae	<i>Cycas ophiolitica</i>	Marlborough blue		E	E	13/13
plants	Equisetopsida	Cycadaceae	<i>Cycas megacarpa</i>			E	E	1
plants	Equisetopsida	Cyperaceae	<i>Cyperus involucratus</i>		Y			1/1
plants	Equisetopsida	Cyperaceae	<i>Scleria mackaviensis</i>				C	1
plants	Equisetopsida	Cyperaceae	<i>Cyperus alopecuroides</i>				C	2/2
plants	Equisetopsida	Cyperaceae	<i>Fimbristylis dichotoma</i>	common fringe-rush			C	1
plants	Equisetopsida	Cyperaceae	<i>Eleocharis dietrichiana</i>				C	1/1
plants	Equisetopsida	Cyperaceae	<i>Fimbristylis aestivalis</i>				C	1/1
plants	Equisetopsida	Cyperaceae	<i>Cyperus</i>				C	1
plants	Equisetopsida	Cyperaceae	<i>Gahnia aspera</i>				C	8/1
plants	Equisetopsida	Cyperaceae	<i>Cyperus fulvus</i>				C	2/1
plants	Equisetopsida	Cyperaceae	<i>Cyperus rotundus</i>	nutgrass	Y			1/1
plants	Equisetopsida	Cyperaceae	<i>Cyperus difformis</i>	rice sedge		C		1/1
plants	Equisetopsida	Cyperaceae	<i>Cyperus digitatus</i>				C	1/1
plants	Equisetopsida	Cyperaceae	<i>Cyperus scariosus</i>				C	1/1
plants	Equisetopsida	Cyperaceae	<i>Abildgaardia ovata</i>				C	2
plants	Equisetopsida	Cyperaceae	<i>Cyperus perangustus</i>				C	1/1
plants	Equisetopsida	Cyperaceae	<i>Cyperus platystylis</i>				C	1/1
plants	Equisetopsida	Dicksoniaceae	<i>Calochlaena dubia</i>				C	1
plants	Equisetopsida	Dicranaceae	<i>Sclerodontium pallidum</i> subsp. <i>pallidum</i>				C	2/2
plants	Equisetopsida	Dioscoreaceae	<i>Dioscorea transversa</i>	native yam		C		3
plants	Equisetopsida	Dracaenaceae	<i>Sansevieria trifasciata</i> var. <i>trifasciata</i>		Y			1/1
plants	Equisetopsida	Ebenaceae	<i>Diospyros australis</i>	black plum		C		8/3
plants	Equisetopsida	Ebenaceae	<i>Diospyros geminata</i>	scaly ebony		C		10/1
plants	Equisetopsida	Ebenaceae	<i>Diospyros humilis</i>	small-leaved ebony		C		4/3
plants	Equisetopsida	Ebenaceae	<i>Diospyros fasciculosa</i>	grey ebony		C		2
plants	Equisetopsida	Elaeocarpaceae	<i>Elaeocarpus obovatus</i>	blueberry ash		C		4/2
plants	Equisetopsida	Elaeocarpaceae	<i>Elaeocarpus reticulatus</i>	ash quandong		C		1
plants	Equisetopsida	Erythroxylaceae	<i>Erythroxylum</i> sp. (Splityard Creek L.Pedley 5360)			C		1/1
plants	Equisetopsida	Erythroxylaceae	<i>Erythroxylum australe</i>	cocaine tree		C		1
plants	Equisetopsida	Euphorbiaceae	<i>Manihot esculenta</i>			Y		1/1
plants	Equisetopsida	Euphorbiaceae	<i>Baloghia inophylla</i>	scrub bloodwood		C		6/1

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plants	Equisetopsida	Euphorbiaceae	<i>Macaranga tanarius</i>	macaranga		C		3
plants	Equisetopsida	Euphorbiaceae	<i>Acalypha capillipes</i>	small-leaved acalypha		C		1
plants	Equisetopsida	Euphorbiaceae	<i>Euphorbia tannensis</i>			C		1
plants	Equisetopsida	Euphorbiaceae	<i>Mallotus ficifolius</i>			C		3/3
plants	Equisetopsida	Euphorbiaceae	<i>Alchornea ilicifolia</i>	native holly		C		7/3
plants	Equisetopsida	Euphorbiaceae	<i>Excoecaria agallocha</i>	milky mangrove		C		1/1
plants	Equisetopsida	Euphorbiaceae	<i>Croton acronychioides</i>	thick-leaved croton		C		5/1
plants	Equisetopsida	Euphorbiaceae	<i>Euphorbia cyathophora</i>	dwarf poinsettia	Y			5/4
plants	Equisetopsida	Euphorbiaceae	<i>Mallotus claoxyloides</i>	green kamala		C		2
plants	Equisetopsida	Euphorbiaceae	<i>Mallotus philippensis</i>	red kamala		C		10
plants	Equisetopsida	Euphorbiaceae	<i>Euphorbia heterophylla</i>		Y			3/3
plants	Equisetopsida	Euphorbiaceae	<i>Acalypha eremorum</i>	soft acalypha		C		3/2
plants	Equisetopsida	Euphorbiaceae	<i>Ricinus communis</i>	castor oil bush	Y			4/4
plants	Equisetopsida	Euphorbiaceae	<i>Croton insularis</i>	Queensland cascarilla		C		1
plants	Equisetopsida	Euphorbiaceae	<i>Euphorbia hirta</i>		Y			1/1
plants	Equisetopsida	Euphorbiaceae	<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>			C		1/1
plants	Equisetopsida	Euphorbiaceae	<i>Homalanthus populifolius</i>			C		3/2
plants	Equisetopsida	Euphorbiaceae	<i>Tragia novae-hollandiae</i>	stinging-vine		C		1
plants	Equisetopsida	Euphorbiaceae	<i>Euphorbia hyssopifolia</i>		Y			1/1
plants	Equisetopsida	Euphorbiaceae	<i>Excoecaria dallachiana</i>	scrub poison tree		C		1
plants	Equisetopsida	Fabaceae	<i>Glycine tomentella</i>	woolly glycine		C		1
plants	Equisetopsida	Fabaceae	<i>Desmodium muelleri</i>			C		1/1
plants	Equisetopsida	Fabaceae	<i>Jacksonia scoparia</i>			C		1
plants	Equisetopsida	Fabaceae	<i>Aeschynomene indica</i>	budda pea		C		1/1
plants	Equisetopsida	Fabaceae	<i>Crotalaria calycina</i>			C		2/1
plants	Equisetopsida	Fabaceae	<i>Desmodium tortuosum</i>	Florida beggar-weed	Y			1/1
plants	Equisetopsida	Fabaceae	<i>Stylosanthes scabra</i>		Y			6/4
plants	Equisetopsida	Fabaceae	<i>Cullen australasicum</i>			C		2/1
plants	Equisetopsida	Fabaceae	<i>Flemingia parviflora</i>	flemingia		C		3
plants	Equisetopsida	Fabaceae	<i>Indigofera linifolia</i>			C		1
plants	Equisetopsida	Fabaceae	<i>Indigofera pratensis</i>			C		4/2
plants	Equisetopsida	Fabaceae	<i>Indigofera tinctoria</i>		Y			4/3
plants	Equisetopsida	Fabaceae	<i>Pycnospora lutescens</i>	pycnospora		C		1
plants	Equisetopsida	Fabaceae	<i>Crotalaria lanceolata</i>		Y			1
plants	Equisetopsida	Fabaceae	<i>Erythrina vespertilio</i>			C		3
plants	Equisetopsida	Fabaceae	<i>Hardenbergia violacea</i>			C		1
plants	Equisetopsida	Fabaceae	<i>Swainsona galegifolia</i>	smooth Darling pea		C		3/1
plants	Equisetopsida	Fabaceae	<i>Austrosteenisia blackii</i>	bloodvine		C		5
plants	Equisetopsida	Fabaceae	<i>Indigofera suffruticosa</i>		Y			1/1
plants	Equisetopsida	Fabaceae	<i>Desmodium rhytidophyllum</i>			C		4/1
plants	Equisetopsida	Fabaceae	<i>Macroptilium lathyroides</i>		Y			3/1
plants	Equisetopsida	Fabaceae	<i>Medicago sativa</i> subsp. <i>sativa</i>		Y			1/1
plants	Equisetopsida	Fabaceae	<i>Vigna vexillata</i> var. <i>youngiana</i>			C		1
plants	Equisetopsida	Fabaceae	<i>Crotalaria incana</i> subsp. <i>incana</i>		Y			2/1
plants	Equisetopsida	Fabaceae	<i>Crotalaria pallida</i> var. <i>obovata</i>		Y			3/2
plants	Equisetopsida	Fabaceae	<i>Rhynchosia minima</i> var. <i>australis</i>			C		1

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plants	Equisetopsida	Fabaceae	<i>Vigna vexillata</i> var. <i>angustifolia</i>			C		1/1
plants	Equisetopsida	Fabaceae	<i>Macrotyloma axillare</i> var. <i>axillare</i>		Y			1/1
plants	Equisetopsida	Fabaceae	<i>Austrosteenisia blackii</i> var. <i>blackii</i>			C		1/1
plants	Equisetopsida	Fabaceae	<i>Cajanus reticulatus</i> var. <i>reticulatus</i>			C		1/1
plants	Equisetopsida	Fabaceae	<i>Crotalaria incana</i> subsp. <i>purpurascens</i>		Y			1/1
plants	Equisetopsida	Fabaceae	<i>Crotalaria lanceolata</i> subsp. <i>lanceolata</i>		Y			2/2
plants	Equisetopsida	Fabaceae	<i>Zornia</i>			C		2
plants	Equisetopsida	Fabaceae	<i>Glycine</i>			C		4
plants	Equisetopsida	Fabaceae	<i>Fabaceae</i>			C		1
plants	Equisetopsida	Fabaceae	<i>Sesbania</i>			C		2
plants	Equisetopsida	Fabaceae	<i>Desmodium</i>			C		3
plants	Equisetopsida	Fabaceae	<i>Swainsona</i>			C		1
plants	Equisetopsida	Fabaceae	<i>Vigna luteola</i>	dalrymple vigna	Y			2/2
plants	Equisetopsida	Fabaceae	<i>Glycine tabacina</i>	glycine pea		C		1
plants	Equisetopsida	Fabaceae	<i>Clitoria ternatea</i>	butterfly pea	Y			3/2
plants	Equisetopsida	Fabaceae	<i>Crotalaria montana</i>			C		1
plants	Equisetopsida	Fabaceae	<i>Crotalaria pallida</i>		Y			1
plants	Equisetopsida	Fabaceae	<i>Indigofera hirsuta</i>	hairy indigo		C		1
plants	Equisetopsida	Goodeniaceae	<i>Goodenia</i>			C		1
plants	Equisetopsida	Goodeniaceae	<i>Goodenia grandiflora</i>			C		2/1
plants	Equisetopsida	Goodeniaceae	<i>Goodenia glabra</i>			C		1/1
plants	Equisetopsida	Haloragaceae	<i>Myriophyllum verrucosum</i>	water milfoil		C		1/1
plants	Equisetopsida	Heliconiaceae	<i>Heliconia</i>			C		1/1
plants	Equisetopsida	Hemerocallidaceae	<i>Dianella</i>			C		7
plants	Equisetopsida	Hemerocallidaceae	<i>Dianella caerulea</i> var. <i>vannata</i>			C		1/1
plants	Equisetopsida	Hemerocallidaceae	<i>Geitonoplesium cymosum</i>			C		7
plants	Equisetopsida	Hemerocallidaceae	<i>Dianella caerulea</i>	scrambling lily		C		2
plants	Equisetopsida	Hernandiaceae	<i>Gyrocarpus americanus</i>			C		1
plants	Equisetopsida	Hydrocharitaceae	<i>Hydrilla verticillata</i>			C		1/1
plants	Equisetopsida	Hydrocharitaceae	<i>Vallisneria nana</i>	hydrilla		C		1/1
plants	Equisetopsida	Hydrocharitaceae	<i>Ottelia</i>			C		2
plants	Equisetopsida	Hydrocharitaceae	<i>Blyxa</i>			C		1
plants	Equisetopsida	Hypoxidaceae	<i>Hypoxis pratensis</i> var. <i>pratensis</i>			C		1
plants	Equisetopsida	Hypoxidaceae	<i>Curculigo ensifolia</i>			C		1
plants	Equisetopsida	Lamiaceae	<i>Plectranthus parviflorus</i>			C		1
plants	Equisetopsida	Lamiaceae	<i>Clerodendrum floribundum</i>			C		2
plants	Equisetopsida	Lamiaceae	<i>Plectranthus graveolens</i>			C		3
plants	Equisetopsida	Lamiaceae	<i>Clerodendrum tomentosum</i>	flea bush		C		1
plants	Equisetopsida	Lamiaceae	<i>Callicarpa pedunculata</i>			C		2/1
plants	Equisetopsida	Lamiaceae	<i>Basilicum polystachyon</i>			C		1/1
plants	Equisetopsida	Lamiaceae	<i>Callicarpa thozetii</i>			E		4/4
plants	Equisetopsida	Lamiaceae	<i>Glossocarya hemiderma</i>			C		4/1
plants	Equisetopsida	Lamiaceae	<i>Leonotis nepetifolia</i>		Y			4/3
plants	Equisetopsida	Lamiaceae	<i>Gmelina philippensis</i>		Y			2/2
plants	Equisetopsida	Lamiaceae	<i>Ajuga australis</i>	Australian bugle		C		2
plants	Equisetopsida	Lamiaceae	<i>Vitex acuminata</i>			C		1

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plants	Equisetopsida	Lamiaceae	<i>Ocimum americanum</i>		Y			5/4
plants	Equisetopsida	Lamiaceae	<i>Leucas lavandulifolia</i>		Y			4/3
plants	Equisetopsida	Lauraceae	<i>Cryptocarya triplinervis</i>			C		6
plants	Equisetopsida	Lauraceae	<i>Cryptocarya triplinervis var. pubens</i>			C		1/1
plants	Equisetopsida	Lauraceae	<i>Neolitsea australiensis</i>	green bolly gum		C		1
plants	Equisetopsida	Lauraceae	<i>Cryptocarya hypospodia</i>	north Queensland purple laurel		C		4/1
plants	Equisetopsida	Lauraceae	<i>Cryptocarya bidwillii</i>	yellow laurel		C		4/1
plants	Equisetopsida	Lauraceae	<i>Cinnamomum camphora</i>	camphor laurel	Y			1/1
plants	Equisetopsida	Lauraceae	<i>Cassytha filiformis</i>	dodder laurel		C		1
plants	Equisetopsida	Lauraceae	<i>Neolitsea dealbata</i>	white bolly gum		C		1
plants	Equisetopsida	Lauraceae	<i>Litsea fawcettiana</i>			C		2/2
plants	Equisetopsida	Lauraceae	<i>Endiandra muelleri</i>			C		1
plants	Equisetopsida	Lauraceae	<i>Litsea reticulata</i>			C		3
plants	Equisetopsida	Lauraceae	<i>Neolitsea brassii</i>			C		4/2
plants	Equisetopsida	Laxmanniaceae	<i>Eustrephus latifolius</i>	wombat berry		C		3
plants	Equisetopsida	Laxmanniaceae	<i>Cordyline murchisoniae</i>			C		6/2
plants	Equisetopsida	Laxmanniaceae	<i>Lomandra longifolia</i>			C		4/1
plants	Equisetopsida	Laxmanniaceae	<i>Cordyline</i>			C		2
plants	Equisetopsida	Laxmanniaceae	<i>Lomandra</i>			C		3
plants	Equisetopsida	Lecythidaceae	<i>Planchonia careya</i>	cockatoo apple		C		3
plants	Equisetopsida	Loganiaceae	<i>Strychnos psilosperma</i>	strychnine tree		C		4/1
plants	Equisetopsida	Loranthaceae	<i>Dendrophthoe glabrescens</i>			C		4/4
plants	Equisetopsida	Loranthaceae	<i>Amyema miquellii</i>			C		1/1
plants	Equisetopsida	Lythraceae	<i>Lagerstroemia indica</i>		Y			1/1
plants	Equisetopsida	Malpighiaceae	<i>Stigmaphyllon timoriense</i>			C		1
plants	Equisetopsida	Malpighiaceae	<i>Stigmaphyllon australiense</i>			C		1/1
plants	Equisetopsida	Malvaceae	<i>Sida cordifolia</i>			Y		4/1
plants	Equisetopsida	Malvaceae	<i>Malvastrum coromandelianum subsp. coromandelianum</i>			Y		1/1
plants	Equisetopsida	Malvaceae	<i>Malvastrum americanum var. americanum</i>			Y		2/1
plants	Equisetopsida	Malvaceae	<i>Hibiscus heterophyllus</i>			C		6
plants	Equisetopsida	Malvaceae	<i>Hibiscus rosasinensis</i>			Y		1/1
plants	Equisetopsida	Malvaceae	<i>Hibiscus vitifolius</i>			C		1/1
plants	Equisetopsida	Malvaceae	<i>Abutilon oxycarpum</i>			C		2
plants	Equisetopsida	Malvaceae	<i>Abutilon guineense</i>		Y			3/3
plants	Equisetopsida	Malvaceae	<i>Sida hackettiana</i>			C		1
plants	Equisetopsida	Malvaceae	<i>Abutilon auritum</i>	Chinese lantern		C		2/1
plants	Equisetopsida	Malvaceae	<i>Sida</i>			C		4
plants	Equisetopsida	Malvaceae	<i>Sida spinosa</i>	spiny sida	Y			2/2
plants	Equisetopsida	Marsileaceae	<i>Marsilea</i>			C		2/2
plants	Equisetopsida	Meliaceae	<i>Dysoxylum gaudichaudianum</i>	ivory mahogany		C		2/1
plants	Equisetopsida	Meliaceae	<i>Melia azedarach</i>	white cedar		C		6
plants	Equisetopsida	Meliaceae	<i>Turraea pubescens</i>	native honeysuckle		C		7/1
plants	Equisetopsida	Menispermaceae	<i>Tinospora smilacina</i>	snakevine		C		1
plants	Equisetopsida	Menispermaceae	<i>Stephania japonica</i>			C		1
plants	Equisetopsida	Menispermaceae	<i>Pleogyne australis</i>	wiry grape		C		3/1
plants	Equisetopsida	Menispermaceae	<i>Legnephora moorei</i>			C		2/1

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plants	Equisetopsida	Menispermaceae	<i>Pachygone ovata</i>			C		1
plants	Equisetopsida	Menyanthaceae	<i>Nymphoides indica</i>	water snowflake		C		1
plants	Equisetopsida	Mimosaceae	<i>Neptunia gracilis f. gracilis</i>			C		1/1
plants	Equisetopsida	Mimosaceae	<i>Acacia disparrima subsp. disparrima</i>			C		1
plants	Equisetopsida	Mimosaceae	<i>Acacia sp. (Canoona S.T.Blake 15321)</i>			C		1/1
plants	Equisetopsida	Mimosaceae	<i>Leucaena leucocephala subsp. leucocephala</i>		Y			9/8
plants	Equisetopsida	Mimosaceae	<i>Acacia</i>			C		3
plants	Equisetopsida	Mimosaceae	<i>Archidendron</i>					1
plants	Equisetopsida	Mimosaceae	<i>Acacia decora</i>	pretty wattle		C		1
plants	Equisetopsida	Mimosaceae	<i>Acacia implexa</i>	lightwood		C		1
plants	Equisetopsida	Mimosaceae	<i>Acacia maidenii</i>	Maiden's wattle		C		8/1
plants	Equisetopsida	Mimosaceae	<i>Acacia salicina</i>	doolan		C		5/3
plants	Equisetopsida	Mimosaceae	<i>Albizia lebbeck</i>	Indian siris		C		6/5
plants	Equisetopsida	Mimosaceae	<i>Prosopis pallida</i>		Y			1/1
plants	Equisetopsida	Mimosaceae	<i>Vachellia karroo</i>	karroo thorn	Y			1/1
plants	Equisetopsida	Mimosaceae	<i>Acacia aulacocarpa</i>			C		3
plants	Equisetopsida	Mimosaceae	<i>Vachellia nilotica</i>	prickly acacia	Y			3/3
plants	Equisetopsida	Mimosaceae	<i>Desmanthus virgatus</i>			C		1
plants	Equisetopsida	Mimosaceae	<i>Vachellia bidwillii</i>			C		4/3
plants	Equisetopsida	Mimosaceae	<i>Acacia fasciculifera</i>	scaly bark		C		12/2
plants	Equisetopsida	Mimosaceae	<i>Vachellia farnesiana</i>			Y		1
plants	Equisetopsida	Mimosaceae	<i>Desmanthus pernambucanus</i>		Y			5/4
plants	Equisetopsida	Mimosaceae	<i>Archidendropsis thozetiana</i>			C		4/1
plants	Equisetopsida	Molluginaceae	<i>Glinus lotoides</i>	hairy carpet weed		C		3/3
plants	Equisetopsida	Moraceae	<i>Ficus coronata</i>	creek sandpaper fig		C		1
plants	Equisetopsida	Moraceae	<i>Ficus obliqua</i>			C		4/2
plants	Equisetopsida	Moraceae	<i>Ficus virens</i>			C		3
plants	Equisetopsida	Moraceae	<i>Morus alba</i>	white mulberry	Y			1/1
plants	Equisetopsida	Moraceae	<i>Ficus platypoda</i>			C		5
plants	Equisetopsida	Moraceae	<i>Ficus</i>			C		1
plants	Equisetopsida	Moraceae	<i>Ficus opposita</i>			C		7
plants	Equisetopsida	Moraceae	<i>Streblus</i>					1
plants	Equisetopsida	Moraceae	<i>Trophis scandens subsp. scandens</i>			C		5/1
plants	Equisetopsida	Moraceae	<i>Ficus racemosa var. racemosa</i>			C		2
plants	Equisetopsida	Moraceae	<i>Ficus virens var. virens</i>			C		3/2
plants	Equisetopsida	Moraceae	<i>Streblus brunonianus</i>	whalebone tree		C		4
plants	Equisetopsida	Myrsinaceae	<i>Myrsine variabilis</i>			C		5/2
plants	Equisetopsida	Myrtaceae	<i>Melaleuca quinquenervia</i>	swamp paperbark		C		2
plants	Equisetopsida	Myrtaceae	<i>Eucalyptus tereticornis subsp. tereticornis</i>			C		2/1
plants	Equisetopsida	Myrtaceae	<i>Eucalyptus platyphylla x Eucalyptus tereticornis</i>			C		1/1
plants	Equisetopsida	Myrtaceae	<i>Backhousia</i>			C		1
plants	Equisetopsida	Myrtaceae	<i>Psidium guajava</i>	guava	Y			4/4
plants	Equisetopsida	Myrtaceae	<i>Gossia bidwillii</i>			C		6/2
plants	Equisetopsida	Myrtaceae	<i>Backhousia kingii</i>			C		4/4
plants	Equisetopsida	Myrtaceae	<i>Eucalyptus crebra</i>	narrow-leaved red ironbark		C		9/2
plants	Equisetopsida	Myrtaceae	<i>Melaleuca nervosa</i>			C		2

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plants	Equisetopsida	Myrtaceae	<i>Psidium guineense</i>	cherry guava	Y			1
plants	Equisetopsida	Myrtaceae	<i>Syzygium australe</i>	scrub cherry		C		6/2
plants	Equisetopsida	Myrtaceae	<i>Eucalyptus exserta</i>	Queensland peppermint		C		3
plants	Equisetopsida	Myrtaceae	<i>Melaleuca dealbata</i>	swamp tea-tree		C		2/1
plants	Equisetopsida	Myrtaceae	<i>Rhodamnia argentea</i>	white myrtle		C		1/1
plants	Equisetopsida	Myrtaceae	<i>Corymbia citriodora</i>	spotted gum		C		3
plants	Equisetopsida	Myrtaceae	<i>Corymbia intermedia</i>	pink bloodwood		C		6/1
plants	Equisetopsida	Myrtaceae	<i>Eucalyptus coolabah</i>	coolabah		C		2
plants	Equisetopsida	Myrtaceae	<i>Melaleuca viminalis</i>			C		2
plants	Equisetopsida	Myrtaceae	<i>Backhousia oligantha</i>			E		3/3
plants	Equisetopsida	Myrtaceae	<i>Corymbia dallachiana</i>			C		4
plants	Equisetopsida	Myrtaceae	<i>Eucalyptus tereticornis</i>			C		6
plants	Equisetopsida	Myrtaceae	<i>Melaleuca linariifolia</i>	snow-in summer		C		1
plants	Equisetopsida	Myrtaceae	<i>Corymbia tessellaris</i>	Moreton Bay ash		C		2
plants	Equisetopsida	Myrtaceae	<i>Eucalyptus raveretiana</i>	black ironbox		C	V	4/3
plants	Equisetopsida	Myrtaceae	<i>Eucalyptus platyphylla</i>	poplar gum		C		1
plants	Equisetopsida	Myrtaceae	<i>Corymbia erythrophloia</i>	variable-barked bloodwood		C		5/4
plants	Equisetopsida	Myrtaceae	<i>Backhousia subargentea</i>			C		1/1
plants	Equisetopsida	Myrtaceae	<i>Melaleuca leucadendra</i>	broad-leaved tea-tree		C		1/1
plants	Equisetopsida	Myrtaceae	<i>Melaleuca fluviatilis</i>			C		1/1
plants	Equisetopsida	Myrtaceae	<i>Lophostemon confertus</i>	brush box		C		11/2
plants	Equisetopsida	Myrtaceae	<i>Eucalyptus portuensis</i>			C		2
plants	Equisetopsida	Myrtaceae	<i>Eucalyptus acmenoides</i>			C		2/1
plants	Equisetopsida	Myrtaceae	<i>Corymbia clarksoniana</i>			C		3
plants	Equisetopsida	Myrtaceae	<i>Eucalyptus moluccana</i>	gum-topped box		C		1
plants	Equisetopsida	Myrtaceae	<i>Lophostemon suaveolens</i>	swamp box		C		2
plants	Equisetopsida	Nyctaginaceae	<i>Pisonia aculeata</i>	thorny pisonia		C		1
plants	Equisetopsida	Nyctaginaceae	<i>Boerhavia sp. (Bargara L.Pedley 5382)</i>			C		1/1
plants	Equisetopsida	Nyctaginaceae	<i>Bougainvillea glabra</i>			Y		1/1
plants	Equisetopsida	Ochnaceae	<i>Ochna serrulata</i>	ochna		Y		1/1
plants	Equisetopsida	Oleaceae	<i>Notelaea microcarpa</i>			C		2
plants	Equisetopsida	Oleaceae	<i>Chionanthus ramiflorus</i>	northern olive		C		5
plants	Equisetopsida	Oleaceae	<i>Jasminum simplicifolium</i>			C		6
plants	Equisetopsida	Oleaceae	<i>Jasminum didymum subsp. lineare</i>			C		1
plants	Equisetopsida	Oleaceae	<i>Jasminum didymum subsp. racemosum</i>			C		2
plants	Equisetopsida	Oleaceae	<i>Jasminum simplicifolium subsp. austriale</i>			C		4/1
plants	Equisetopsida	Oleaceae	<i>Olea paniculata</i>			C		2
plants	Equisetopsida	Oleaceae	<i>Jasminum didymum</i>			C		4
plants	Equisetopsida	Onagraceae	<i>Ludwigia</i>			C		2/2
plants	Equisetopsida	Onagraceae	<i>Ludwigia octovalvis</i>			C		1
plants	Equisetopsida	Onagraceae	<i>Ludwigia peploides subsp. montevidensis</i>	willow primrose		C		1
plants	Equisetopsida	Orchidaceae	<i>Dipodium variegatum</i>			C		1/1
plants	Equisetopsida	Orthotrichaceae	<i>Macromitrium repandum</i>			C		1/1
plants	Equisetopsida	Oxalidaceae	<i>Oxalis radicosa</i>			C		1/1
plants	Equisetopsida	Oxalidaceae	<i>Oxalis corniculata</i>			Y		1
plants	Equisetopsida	Oxalidaceae	<i>Oxalis debilis var. corymbosa</i>	pink shamrock		Y		1/1

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plants	Equisetopsida	Papaveraceae	<i>Argemone ochroleuca</i> subsp. <i>ochroleuca</i>	Mexican poppy	Y			3/3
plants	Equisetopsida	Passifloraceae	<i>Passiflora foetida</i>		Y			6/4
plants	Equisetopsida	Passifloraceae	<i>Passiflora pallida</i>		Y			2/2
plants	Equisetopsida	Passifloraceae	<i>Passiflora suberosa</i>	corky passion flower	Y			6
plants	Equisetopsida	Passifloraceae	<i>Passiflora subpeltata</i>	white passion flower	Y			2/1
plants	Equisetopsida	Pentaphylacaceae	<i>Melhania oblongifolia</i>		C			1
plants	Equisetopsida	Petiveriaceae	<i>Rivina humilis</i>		Y			4/2
plants	Equisetopsida	Phrymaceae	<i>Mimulus gracilis</i>	slender monkey flower	C			1/1
plants	Equisetopsida	Phyllanthaceae	<i>Glochidion ferdinandi</i>		C			1
plants	Equisetopsida	Phyllanthaceae	<i>Glochidion lobocarpum</i>		C			3
plants	Equisetopsida	Phyllanthaceae	<i>Synostemon albiflorus</i>		C			2/2
plants	Equisetopsida	Phyllanthaceae	<i>Bridelia exaltata</i>		C			2
plants	Equisetopsida	Phyllanthaceae	<i>Phyllanthus subcrenulatus</i>		C			3/2
plants	Equisetopsida	Phyllanthaceae	<i>Breynia oblongifolia</i>		C			6/1
plants	Equisetopsida	Phyllanthaceae	<i>Flueggea leucopyrus</i>		C			4/2
plants	Equisetopsida	Phyllanthaceae	<i>Bridelia leichhardtii</i>		C			8/1
plants	Equisetopsida	Phyllanthaceae	<i>Cleistanthus dallachyanus</i>		C			3/2
plants	Equisetopsida	Phytolaccaceae	<i>Phytolacca octandra</i>	inkweed	Y			1/1
plants	Equisetopsida	Picrodendraceae	<i>Petalostigma pubescens</i>	quinine tree	C			2
plants	Equisetopsida	Picrodendraceae	<i>Dissiliaria muelleri</i>	Mueller's redheart	C			6/5
plants	Equisetopsida	Piperaceae	<i>Peperomia blanda</i> var. <i>floribunda</i>		C			1
plants	Equisetopsida	Pittosporaceae	<i>Auranticarpa rhombifolia</i>		C			3/1
plants	Equisetopsida	Pittosporaceae	<i>Pittosporum ferrugineum</i>		C			1
plants	Equisetopsida	Pittosporaceae	<i>Pittosporum tinifolium</i>		C			1/1
plants	Equisetopsida	Pittosporaceae	<i>Pittosporum spinescens</i>		C			7/1
plants	Equisetopsida	Pittosporaceae	<i>Pittosporum venulosum</i>		C			2
plants	Equisetopsida	Plantaginaceae	<i>Bacopa monnieri</i>		C			1/1
plants	Equisetopsida	Plantaginaceae	<i>Scoparia dulcis</i>	scoparia	Y			1/1
plants	Equisetopsida	Plumbaginaceae	<i>Plumbago zeylanica</i>	native plumbago	C			1/1
plants	Equisetopsida	Poaceae	<i>Dinebra decipiens</i> var. <i>asthenes</i>		C			1/1
plants	Equisetopsida	Poaceae	<i>Hymenachne amplexicaulis</i> 'Olive'		Y			1/1
plants	Equisetopsida	Poaceae	<i>Bothriochloa bladhii</i> subsp. <i>bladhii</i>		C			1/1
plants	Equisetopsida	Poaceae	<i>Megathyrsus maximus</i> var. <i>pubiglumis</i>		Y			2/1
plants	Equisetopsida	Poaceae	<i>Dichanthium sericeum</i> subsp. <i>sericeum</i>		C			1/1
plants	Equisetopsida	Poaceae	<i>Panicum decompositum</i> var. <i>decompositum</i>		C			1/1
plants	Equisetopsida	Poaceae	<i>Enneapogon</i>		C			1
plants	Equisetopsida	Poaceae	<i>Pseudoraphis</i>		C			1
plants	Equisetopsida	Poaceae	<i>Phyllostachys</i>		C			1/1
plants	Equisetopsida	Poaceae	<i>Chloris gayana</i>	rhodes grass	Y			3/2
plants	Equisetopsida	Poaceae	<i>Melinis repens</i>	red natal grass	Y			5/2
plants	Equisetopsida	Poaceae	<i>Aristida spuria</i>		C			2/1
plants	Equisetopsida	Poaceae	<i>Chloris inflata</i>	purpletop chloris	Y			2/1
plants	Equisetopsida	Poaceae	<i>Eleusine indica</i>	crowsfoot grass	Y			1/1
plants	Equisetopsida	Poaceae	<i>Panicum effusum</i>		C			1/1
plants	Equisetopsida	Poaceae	<i>Sorghum bicolor</i>	forage sorghum	Y			1/1
plants	Equisetopsida	Poaceae	<i>Sorghum nitidum</i>		C			3

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plants	Equisetopsida	Poaceae	<i>Sorghum x alnum</i>		Y			1/1
plants	Equisetopsida	Poaceae	<i>Urochloa mutica</i>		Y			3/2
plants	Equisetopsida	Poaceae	<i>Hyparrhenia rufa</i>		Y			1/1
plants	Equisetopsida	Poaceae	<i>Sarga leiocladium</i>		C			2/1
plants	Equisetopsida	Poaceae	<i>Themeda triandra</i>	kangaroo grass	C			7/1
plants	Equisetopsida	Poaceae	<i>Cenchrus setaceus</i>		Y			4/3
plants	Equisetopsida	Poaceae	<i>Dichanthium tenue</i>	small bluegrass	C			1/1
plants	Equisetopsida	Poaceae	<i>Eriochloa procera</i>	slender cupgrass	C			2/2
plants	Equisetopsida	Poaceae	<i>Panicum paludosum</i>	swamp panic	C			1/1
plants	Equisetopsida	Poaceae	<i>Sporobolus caroli</i>	fairy grass	C			1/1
plants	Equisetopsida	Poaceae	<i>Cenchrus echinatus</i>	Mossman River grass	Y			2/2
plants	Equisetopsida	Poaceae	<i>Chrysopogon fallax</i>		C			2
plants	Equisetopsida	Poaceae	<i>Echinochloa colona</i>	awnless barnyard grass	Y			3/2
plants	Equisetopsida	Poaceae	<i>Eragrostis brownii</i>	Brown's lovegrass	C			2
plants	Equisetopsida	Poaceae	<i>Oplismenus aemulus</i>	creeping shade grass	C			3
plants	Equisetopsida	Poaceae	<i>Paspalidium gausum</i>		C			3/2
plants	Equisetopsida	Poaceae	<i>Digitaria didactyla</i>	Queensland blue couch	Y			2
plants	Equisetopsida	Poaceae	<i>Imperata cylindrica</i>	blady grass	C			3
plants	Equisetopsida	Poaceae	<i>Ischaemum triticeum</i>		C			1/1
plants	Equisetopsida	Poaceae	<i>Megathyrsus maximus</i>		Y			1
plants	Equisetopsida	Poaceae	<i>Melinis minutiflora</i>	molasses grass	Y			2/1
plants	Equisetopsida	Poaceae	<i>Panicum larcomianum</i>		C			1/1
plants	Equisetopsida	Poaceae	<i>Paspalidium gracile</i>	slender panic	C			2/1
plants	Equisetopsida	Poaceae	<i>Cymbopogon refractus</i>	barbed-wire grass	C			3
plants	Equisetopsida	Poaceae	<i>Dichanthium sericeum</i>		C			1
plants	Equisetopsida	Poaceae	<i>Panicum decompositum</i>		C			1
plants	Equisetopsida	Poaceae	<i>Sorghum arundinaceum</i>	Rhodesian Sudan grass	Y			1/1
plants	Equisetopsida	Poaceae	<i>Cenchrus polystachios</i>		Y			1
plants	Equisetopsida	Poaceae	<i>Dichanthium annulatum</i>	sheda grass	Y			3/3
plants	Equisetopsida	Poaceae	<i>Eragrostis leptocarpa</i>	drooping lovegrass	C			1
plants	Equisetopsida	Poaceae	<i>Eragrostis parviflora</i>	weeping lovegrass	C			1/1
plants	Equisetopsida	Poaceae	<i>Eragrostis tenuifolia</i>	elastic grass	Y			2/2
plants	Equisetopsida	Poaceae	<i>Heteropogon contortus</i>	black speargrass	C			2
plants	Equisetopsida	Poaceae	<i>Heteropogon triticeus</i>	giant speargrass	C			5/1
plants	Equisetopsida	Poaceae	<i>Iseilema vaginiflorum</i>	red flinders grass	C			1/1
plants	Equisetopsida	Poaceae	<i>Sporobolus natalensis</i>		Y			1/1
plants	Equisetopsida	Poaceae	<i>Alloteropsis semialata</i>	cockatoo grass	C			3
plants	Equisetopsida	Poaceae	<i>Arundinella nepalensis</i>	reedgrass	C			4/2
plants	Equisetopsida	Poaceae	<i>Enteropogon unispiceus</i>		C			3/2
plants	Equisetopsida	Poaceae	<i>Eragrostis ciliaris</i>		Y			1/1
plants	Equisetopsida	Poaceae	<i>Panicum queenslandicum</i>		C			3/2
plants	Equisetopsida	Poaceae	<i>Urochloa mosambicensis</i>	sabi grass	Y			4/2
plants	Equisetopsida	Poaceae	<i>Ancistrachne uncinulata</i>	hooky grass	C			2
plants	Equisetopsida	Poaceae	<i>Dactyloctenium radulans</i>	button grass	C			1/1
plants	Equisetopsida	Poaceae	<i>Polypogon monspeliensis</i>	annual beardgrass	Y			1/1
plants	Equisetopsida	Poaceae	<i>Capillipedium spicigerum</i>	spicytop	C			3/1

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plants	Equisetopsida	Poaceae	<i>Dactyloctenium aegyptium</i>	coast button grass	Y			2/2
plants	Equisetopsida	Poaceae	<i>Capillipedium parviflorum</i>	scented top		C		1/1
plants	Equisetopsida	Poaceae	<i>Cymbopogon queenslandicus</i>			C		1
plants	Equisetopsida	Poaceae	<i>Digitaria divaricatissima</i>	spreading umbrella grass		C		2/1
plants	Equisetopsida	Poaceae	<i>Diplachne fusca</i> var. <i>fusca</i>			C		2/2
plants	Equisetopsida	Poaceae	<i>Sorghum nitidum</i> f. <i>aristatum</i>			C		3/2
plants	Equisetopsida	Poaceae	<i>Leersia</i>			C		1
plants	Equisetopsida	Poaceae	<i>Aristida</i>			C		1
plants	Equisetopsida	Poaceae	<i>Digitaria</i>			C		1
plants	Equisetopsida	Polygonaceae	<i>Persicaria orientalis</i>	princes feathers		C		2/2
plants	Equisetopsida	Polygonaceae	<i>Persicaria attenuata</i>			C		1/1
plants	Equisetopsida	Polygonaceae	<i>Antigonon leptopus</i>		Y			3/3
plants	Equisetopsida	Polygonaceae	<i>Duma florulenta</i>			C		1/1
plants	Equisetopsida	Polygonaceae	<i>Rumex crispus</i>	curled dock		Y		1/1
plants	Equisetopsida	Polygonaceae	<i>Persicaria</i>			C		2
plants	Equisetopsida	Polygonaceae	<i>Persicaria lapathifolia</i>	pale knotweed		C		1/1
plants	Equisetopsida	Polypodiaceae	<i>Drynaria</i>			C		1
plants	Equisetopsida	Polypodiaceae	<i>Pyrrosia confluens</i> var. <i>confluens</i>			C		1/1
plants	Equisetopsida	Polypodiaceae	<i>Microsorum punctatum</i>			C		3
plants	Equisetopsida	Polypodiaceae	<i>Drynaria sparsisora</i>			C		1
plants	Equisetopsida	Polypodiaceae	<i>Pyrrosia confluens</i>			C		2
plants	Equisetopsida	Polypodiaceae	<i>Drynaria rigidula</i>			C		1
plants	Equisetopsida	Pontederiaceae	<i>Monochoria cyanea</i>			C		1/1
plants	Equisetopsida	Pontederiaceae	<i>Eichhornia crassipes</i>	water hyacinth	Y			1/1
plants	Equisetopsida	Portulacaceae	<i>Portulaca australis</i>			C		1/1
plants	Equisetopsida	Potamogetonaceae	<i>Stuckenia pectinata</i>			C		1/1
plants	Equisetopsida	Potamogetonaceae	<i>Potamogeton</i>			C		1
plants	Equisetopsida	Proteaceae	<i>Banksia integrifolia</i> subsp. <i>compar</i>			C		1/1
plants	Equisetopsida	Proteaceae	<i>Banksia integrifolia</i>			C		1
plants	Equisetopsida	Pteridaceae	<i>Adiantum atroviride</i>			C		3/2
plants	Equisetopsida	Pteridaceae	<i>Adiantum</i>			C		1
plants	Equisetopsida	Pteridaceae	<i>Cheilanthes</i>			C		1
plants	Equisetopsida	Pteridaceae	<i>Pellaea nana</i>			C		3/2
plants	Equisetopsida	Pteridaceae	<i>Pellaea falcata</i>			C		1
plants	Equisetopsida	Pteridaceae	<i>Adiantum hispidulum</i>			C		3
plants	Equisetopsida	Pteridaceae	<i>Adiantum aethiopicum</i>			C		2
plants	Equisetopsida	Pteridaceae	<i>Adiantum hispidulum</i> var. <i>hispidulum</i>			C		2/2
plants	Equisetopsida	Pteridaceae	<i>Adiantum hispidulum</i> var. <i>minus</i>			C		1/1
plants	Equisetopsida	Pteridaceae	<i>Doryopteris concolor</i>			C		1
plants	Equisetopsida	Pteridaceae	<i>Cheilanthes sieberi</i>			C		1
plants	Equisetopsida	Putranjivaceae	<i>Drypetes deplanchei</i>	grey boxwood		C		8/2
plants	Equisetopsida	Ranunculaceae	<i>Clematis glycinoides</i>			C		2
plants	Equisetopsida	Ranunculaceae	<i>Ranunculus lappaceus</i>	common buttercup		C		1/1
plants	Equisetopsida	Rhamnaceae	<i>Ziziphus mauritiana</i>	Indian jujube	Y			4/4
plants	Equisetopsida	Rhamnaceae	<i>Rhamnella vitiensis</i>			C		2/2
plants	Equisetopsida	Rhamnaceae	<i>Alphitonia excelsa</i>	soap tree		C		5/1

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plants	Equisetopsida	Ripogonaceae	<i>Ripogonum brevifolium</i>	small-leaved supplejack		C		1/1
plants	Equisetopsida	Rosaceae	<i>Rubus probus</i>			C		2/1
plants	Equisetopsida	Rubiaceae	<i>Psychotria daphnoides</i> var. <i>angustifolia</i>			C		1/1
plants	Equisetopsida	Rubiaceae	<i>Psydrax odorata</i> subsp. <i>australiana</i>			C		1/1
plants	Equisetopsida	Rubiaceae	<i>Psydrax odorata</i> f. <i>buxifolia</i>			C		1
plants	Equisetopsida	Rubiaceae	<i>Timonius timon</i> var. <i>timon</i>			C		3
plants	Equisetopsida	Rubiaceae	<i>Cyclophyllum coprosmoides</i>			C		1
plants	Equisetopsida	Rubiaceae	<i>Psydrax odorata</i>			C		5
plants	Equisetopsida	Rubiaceae	<i>Psydrax longipes</i>			C		2/2
plants	Equisetopsida	Rubiaceae	<i>Oldenlandia coerulescens</i>			C		1/1
plants	Equisetopsida	Rubiaceae	<i>Nauclea orientalis</i>	Leichhardt tree		C		1
plants	Equisetopsida	Rubiaceae	<i>Tarenna dallachiana</i>			C		1
plants	Equisetopsida	Rubiaceae	<i>Pavetta australiensis</i>			C		3
plants	Equisetopsida	Rubiaceae	<i>Psychotria daphnoides</i>			C		6/3
plants	Equisetopsida	Rubiaceae	<i>Richardia brasiliensis</i>	white eye	Y			1/1
plants	Equisetopsida	Rubiaceae	<i>Spermacoce multicaulis</i>			C		1/1
plants	Equisetopsida	Rubiaceae	<i>Triflorensia ixoroides</i>			C		1
plants	Equisetopsida	Rubiaceae	<i>Gynochthodes canthoides</i>			C		1
plants	Equisetopsida	Rubiaceae	<i>Hodgkinsonia ovatiflora</i>	golden ash hairy psychotria		C		2/1
plants	Equisetopsida	Rubiaceae	<i>Psychotria loniceroidea</i>			C		1
plants	Equisetopsida	Rubiaceae	<i>Coelospermum reticulatum</i>			C		2
plants	Equisetopsida	Rubiaceae	<i>Pavetta australiensis</i> var. <i>australiensis</i>			C		1/1
plants	Equisetopsida	Rubiaceae	<i>Aidia racemosa</i>			C		4
plants	Equisetopsida	Rubiaceae	<i>Psydrax attenuata</i>			C		1
plants	Equisetopsida	Rutaceae	<i>Acronychia laevis</i>	glossy acronychia clusterberry		C		5/2
plants	Equisetopsida	Rutaceae	<i>Micromelum minutum</i>			C		1
plants	Equisetopsida	Rutaceae	<i>Sarcomelicope simplicifolia</i> subsp. <i>simplicifolia</i>	yellow aspen		C		1
plants	Equisetopsida	Rutaceae	<i>Bosistoa pentacocca</i> subsp. <i>connaricarpa</i>			C		2/1
plants	Equisetopsida	Rutaceae	<i>Murraya paniculata</i> 'Exotica'		Y			5/1
plants	Equisetopsida	Rutaceae	<i>Zanthoxylum brachyacanthum</i>			C		2/1
plants	Equisetopsida	Rutaceae	<i>Bouchardatia neurococca</i>	union nut beach acronychia		C		1
plants	Equisetopsida	Rutaceae	<i>Acronychia imperforata</i>			C		1
plants	Equisetopsida	Rutaceae	<i>Coatesia paniculata</i>			C		2
plants	Equisetopsida	Rutaceae	<i>Geijera salicifolia</i>	brush wilga		C		2/1
plants	Equisetopsida	Salicaceae	<i>Flacourtie indica</i>			C		1/1
plants	Equisetopsida	Salicaceae	<i>Homalium alnifolium</i>	homalium flintwood		C		6/5
plants	Equisetopsida	Salicaceae	<i>Scolopia braunii</i>			C		4
plants	Equisetopsida	Salviniaceae	<i>Azolla</i>					1
plants	Equisetopsida	Salviniaceae	<i>Salvinia molesta</i>	salvinia		Y		2/2
plants	Equisetopsida	Santalaceae	<i>Exocarpos latifolius</i>			C		3
plants	Equisetopsida	Sapindaceae	<i>Atalaya rigida</i>			C		1
plants	Equisetopsida	Sapindaceae	<i>Cardiospermum halicacabum</i> var. <i>halicacabum</i>	tuckeroo		C		1/1
plants	Equisetopsida	Sapindaceae	<i>Cupaniopsis anacardioides</i>			C		5
plants	Equisetopsida	Sapindaceae	<i>Rhysotoechia bifoliolata</i>			C		1
plants	Equisetopsida	Sapindaceae	<i>Elattostachys xylocarpa</i>	white tamarind		C		6
plants	Equisetopsida	Sapindaceae	<i>Cupaniopsis wadsworthii</i>			C		5/1

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plants	Equisetopsida	Sapindaceae	<i>Mischocarpus anodontus</i>	veiny pearfruit		C		1/1
plants	Equisetopsida	Sapindaceae	<i>Atalaya salicifolia</i>			C		1
plants	Equisetopsida	Sapindaceae	<i>Atalaya multiflora</i>	broad-leaved whitewood		C		3/2
plants	Equisetopsida	Sapindaceae	<i>Dodonaea viscosa</i>			C		1
plants	Equisetopsida	Sapindaceae	<i>Harpullia hillii</i>			C		4/1
plants	Equisetopsida	Sapindaceae	<i>Serjania exarata</i>		Y			1/1
plants	Equisetopsida	Sapindaceae	<i>Atalaya calcicola</i>			C		5/4
plants	Equisetopsida	Sapindaceae	<i>Harpullia pendula</i>			C		4/2
plants	Equisetopsida	Sapindaceae	<i>Jagera pseudorhus</i>			C		1
plants	Equisetopsida	Sapindaceae	<i>Alectryon connatus</i>	grey birds-eye		C		8/2
plants	Equisetopsida	Sapindaceae	<i>Arytera divaricata</i>	coogera		C		7/3
plants	Equisetopsida	Sapotaceae	<i>Planchonella cotinifolia var. pubescens</i>			C		3/1
plants	Equisetopsida	Sapotaceae	<i>Planchonella cotinifolia var. cotinifolia</i>			C		1/1
plants	Equisetopsida	Sapotaceae	<i>Sersalisia sericea</i>			C		1
plants	Equisetopsida	Sapotaceae	<i>Planchonella pohlmaniana</i>			C		5/1
plants	Equisetopsida	Scrophulariaceae	<i>Eremophila bignoniiflora</i>	eurah		C		1/1
plants	Equisetopsida	Scrophulariaceae	<i>Eremophila debilis</i>	winter apple		C		2/1
plants	Equisetopsida	Sematophyllaceae	<i>Sematophyllum</i>			C		1/1
plants	Equisetopsida	Simaroubaceae	<i>Ailanthus triphysa</i>	white siris		C		2
plants	Equisetopsida	Smilacaceae	<i>Smilax australis</i>	barbed-wire vine		C		4
plants	Equisetopsida	Solanaceae	<i>Solanum seaforthianum</i>	Brazilian nightshade	Y			5/2
plants	Equisetopsida	Solanaceae	<i>Solanum stelligerum</i>	devil's needles		C		1
plants	Equisetopsida	Solanaceae	<i>Lycianthes shanesii</i>			C		1/1
plants	Equisetopsida	Solanaceae	<i>Capsicum frutescens</i>			Y		1/1
plants	Equisetopsida	Solanaceae	<i>Physalis peruviana</i>			Y		1/1
plants	Equisetopsida	Solanaceae	<i>Datura inoxia</i>			Y		1/1
plants	Equisetopsida	Solanaceae	<i>Solanum nigrum</i>			Y		1
plants	Equisetopsida	Solanaceae	<i>Solanum opacum</i>	green berry nightshade		C		1/1
plants	Equisetopsida	Solanaceae	<i>Solanum torvum</i>	devil's fig		Y		1/1
plants	Equisetopsida	Sparmanniaceae	<i>Grewia latifolia</i>	dysentery plant		C		7/1
plants	Equisetopsida	Sterculiaceae	<i>Sterculia quadrifida</i>	peanut tree		C		2
plants	Equisetopsida	Sterculiaceae	<i>Brachychiton australis</i>	broad-leaved bottle tree		C		2
plants	Equisetopsida	Sterculiaceae	<i>Brachychiton populneus</i>			C		1
plants	Equisetopsida	Sterculiaceae	<i>Brachychiton rupestris</i>			C		1
plants	Equisetopsida	Ulmaceae	<i>Trema tomentosa</i>			C		1
plants	Equisetopsida	Ulmaceae	<i>Celtis paniculata</i>	native celtis		C		2
plants	Equisetopsida	Ulmaceae	<i>Aphananthe philippinensis</i>			C		4/1
plants	Equisetopsida	Ulmaceae	<i>Trema tomentosa var. aspera</i>			C		1
plants	Equisetopsida	Urticaceae	<i>Pipturus argenteus</i>	white nettle		C		2/1
plants	Equisetopsida	Urticaceae	<i>Dendrocnide photiniphylla</i>	shiny-leaved stinging tree		C		4/1
plants	Equisetopsida	Verbenaceae	<i>Lantana</i>			C		1/1
plants	Equisetopsida	Verbenaceae	<i>Duranta erecta</i>	duranta		Y		2/2
plants	Equisetopsida	Verbenaceae	<i>Verbena litoralis var. litoralis</i>			Y		1/1
plants	Equisetopsida	Verbenaceae	<i>Stachytarpheta jamaicensis</i>	Jamaica snakeweed		Y		8/3
plants	Equisetopsida	Verbenaceae	<i>Stachytarpheta cayennensis</i>			Y		1/1
plants	Equisetopsida	Verbenaceae	<i>Glandularia aristigera</i>			Y		3/2

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plants	Equisetopsida	Verbenaceae	<i>Lantana montevidensis</i>	creeping lantana	Y			6/4
plants	Equisetopsida	Verbenaceae	<i>Verbena bonariensis</i>	purpletop	Y			1
plants	Equisetopsida	Verbenaceae	<i>Verbena africana</i>		C			1/1
plants	Equisetopsida	Verbenaceae	<i>Phyla canescens</i>		Y			1/1
plants	Equisetopsida	Verbenaceae	<i>Lantana camara</i>	lantana	Y			14/5
plants	Equisetopsida	Violaceae	<i>Afrohybanthus enneaspermus</i>		C			3
plants	Equisetopsida	Viscaceae	<i>Notothixos incanus</i>		C			1/1
plants	Equisetopsida	Vitaceae	<i>Cissus hastata</i>		C			1
plants	Equisetopsida	Vitaceae	<i>Cayratia acris</i>	hairy grape	C			3/1
plants	Equisetopsida	Vitaceae	<i>Clematicissus opaca</i>		C			1
plants	Equisetopsida	Vitaceae	<i>Cissus cardiophylla</i>		C			1/1
plants	Equisetopsida	Vitaceae	<i>Cissus oblonga</i>		C			10/1
plants	Equisetopsida	Vitaceae	<i>Tetrastigma nitens</i>	shining grape	C			3
plants	Equisetopsida	Vitaceae	<i>Cissus repens</i>		C			3
plants	Equisetopsida	Xanthorrhoeaceae	<i>Xanthorrhoea</i>		C			1
plants	Equisetopsida	Xanthorrhoeaceae	<i>Xanthorrhoea latifolia subsp. latifolia</i>		C			6/1
plants	Equisetopsida	Xanthorrhoeaceae	<i>Xanthorrhoea latifolia</i>		C			2
plants	Equisetopsida	Zamiaceae	<i>Macrozamia miquelii</i>		C			18/9
plants	Equisetopsida	Zingiberaceae	<i>Alpinia caerulea</i>	wild ginger	C			1
plants	Equisetopsida	Zygophyllaceae	<i>Tribulus</i>		C			1/1
plants	uncertain	Indet.	<i>Indet.</i>		C			2

#### 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.

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REPORT: WETLANDS ASSESSMENT  
DATE: APRIL 2019



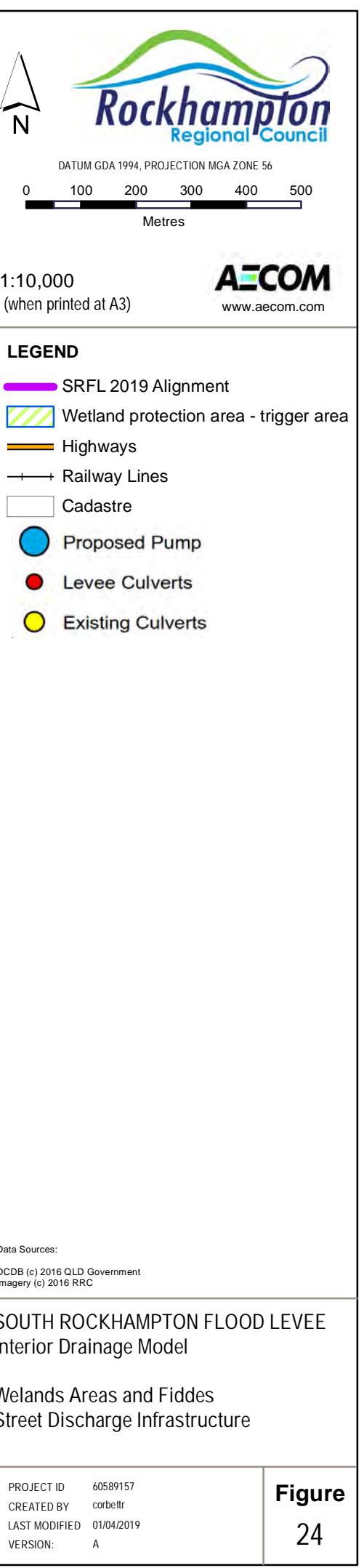
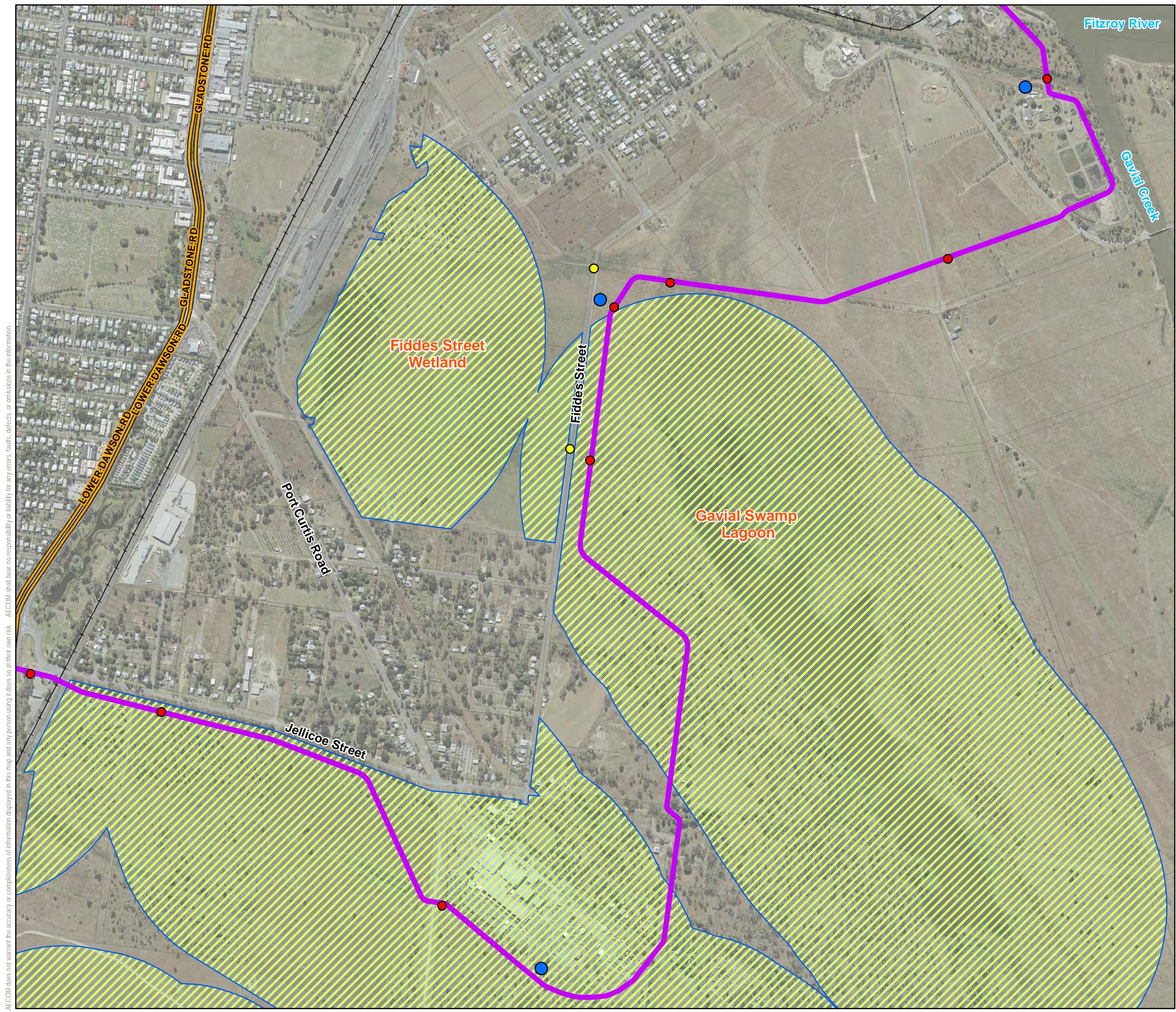
## APPENDIX 2 – WQ PLAN



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PROJECT: SOUTH ROCKHAMPTON FLOOD LEVEE  
REPORT: WETLANDS ASSESSMENT  
DATE: APRIL 2019



## **APPENDIX 3 – LEVEE MITIGATION MEASURES MAP**



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PROJECT: SOUTH ROCKHAMPTON FLOOD LEVEE  
REPORT: WETLANDS ASSESSMENT  
DATE: APRIL 2019

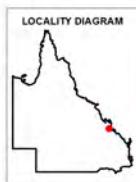


## APPENDIX 4 – HES WETLANDS



## 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](mailto:planning.support@des.qld.gov.au).

0 200 400 600 800 1000 m

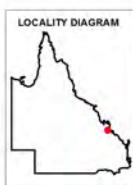
This product is projected into GDA 1994 MGA Zone 56

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## Map of Referable Wetlands for the Environmental Protection Act 1994

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



N

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 of 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](mailto:planning.support@des.qld.gov.au).

0 200 400 600 800 1000 m

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