

# BORR Northern and Central Section Targeted Fauna Assessment (Biota 2019a) – Part 3 (part 7 of 7)

### 6.0 **Conservation Significant Species**

This section provides an assessment of the likelihood of occurrence of the target species and other conservation significant vertebrate fauna species returned from the desktop review; that is, those species protected by the EPBC Act, BC Act or listed as DBCA Priority species. Appendix 1 details categories of conservation significance recognised under these three frameworks.

As detailed in Section 4.2, the assessment of likelihood of occurrence for each species has been made based on availability of suitable habitat, whether it is core or secondary, as well as records of the species during the current or past studies included in the desktop review. Table 6.1 details the likelihood assessment for each conservation significant species. For those species recorded or assessed as having the potential to occur within the study area, further species information is provided in Sections 6.1 and 6.2.

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Conservation significant fauna returned from the desktop review and their likelihood of occurrence within the study area. Table 6.1:

Species Name	Common Name	State Listing	C'wealth Listing	NatureMap	EPBC PMST	Lot 15 (2010)	BORR (2012)	Sabina Vale (2013)	Lot1 Ducane (2014) Waterloo (2015)	No. of Records within 10 km (years spanning)	Marri/ Eucalyptus woodland	Marri/Eucalyp tus in paddocks and road reserves	Melaleuca woodland and shrubland in paddocks and road reserves	Riparian woodland	Peppermint woodland	Dampland	Artificial Wetland	Notes	Likelihood of Occurrence
Pseudocheirus occidentalis	Western Ringtail Possum	\$1	CR	•	•	•	•	•	•	1563 (1991–2018)	Foraging Breeding	Foraging Breeding		Foraging Breeding	Foraging Breeding				Occurs
Calyptorhynchus baudinii	Baudin's Black- Cockatoo	\$2	EN	•	•					14 (1939–2018)	Foraging Breeding	Foraging Breeding		Foraging Breeding					Occurs
Calyptorhynchus latirostris	Carnaby's Black- Cockatoo	\$2	EN	•	•		•	•	•	118 (1939–2018)	Foraging Breeding	Foraging Breeding		Foraging Breeding					Occurs
Calyptorhynchus banksii naso	Forest Red-tailed Black-Cockatoo	\$3	VU	•	•		•	•	•	60 (1998–2018)	Foraging Breeding	Foraging Breeding		Foraging Breeding					Occurs
Westralunio carteri	Carter's Freshwater Mussel	\$3	VU	•	•				•	8 (1905–2016)								Aquatic: Restricted to major creeklines with shallow sandy banks.	Occurs
Phascogale tapoatafa wambenger	Brush-tailed Phascogale	\$6		•						34 (1999–2018)	Foraging Breeding			Foraging Breeding				Requires multiple canopy strata.	Occurs
Isoodon fusciventer	Southern Brown Bandicoot, Quenda	P4					•		•	21 (1992–2018)	Foraging Breeding	Foraging Breeding	Foraging Breeding	Foraging Breeding	Foraging Breeding	Foraging Breeding	Foraging Breeding	Requires thick layer shrub/ground cover, often in association with wetlands on the SCP.	Likely to occur
Oxyura australis	Blue-billed Duck	P4		•						90 (1990–2018)				Foraging			Foraging		Likely to occur
Notamacropus irma	Western Brush Wallaby	P4		•						7 (1975–2015)	Foraging							Rarely recorded on SCP; large woodland areas required to support a resident population.	Possible (visitor)
Dasyurus geoffroii	Chuditch, Western Quoll	\$3	VU		•					4 (1972–2012)	Foraging							Rarely recorded on SCP; large woodland areas required to support a resident population.	Possible (foraging visitor)
Falco peregrinus	Peregrine Falcon	S7		•					•	5 (1975–2014)				Foraging				No breeding habitat available.	Possible (foraging visitor)
Ctenotus ora	Coastal Plains Skink	Р3		•						2 (1982)	Foraging Breeding							Lack of species records precludes definitive assessment.	Possible (resident)
Falsistrellus mackenziei	Western False Pipistrelle	P4		•						2 (2007 & 2014)	Foraging Breeding			Foraging Breeding				Roosts in tree hollows.	Possible (resident)
Hydromys chrysogaster	Water-rat, Rakali	P4		•					•	11 (1957–2017)				Foraging Breeding			Foraging Breeding	Significant drainage/waterbody with riparian cover.	Possible (resident)
Setonix brachyurus	Quokka	\$3	VU	•	•					12 (1975–2008)								Prefers dense understorey with water nearby.	Unlikely to occur
Myrmecobius fasciatus	Numbat	\$2	EN	•						1 (unknown)	Foraging Breeding							No recent records.	Unlikely to occur
Bettongia penicillata ogilbyi	Woylie, Brush- tailed Bettong	\$1	EN	•	•					1 (2009)	Foraging Breeding			Foraging Breeding				Restricted to Dryandra and upper Warren.	Unlikely to occur

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### 6.1 Target Species

### 6.1.1 Western Ringtail Possum

The Western Ringtail Possum or Ngwayir (*Pseudocheirus occidentalis*) is listed as Schedule 1 (Critically Endangered) under the BC Act and Critically Endangered under the EPBC Act.

The Western Ringtail Possum is a medium-sized arboreal marsupial, endemic to south-western Western Australia. The species is exclusively folivorous, feeding on leaves of myrtaceous species, predominantly Peppermint, but also Marri and Jarrah. During the day, possums rest in tree hollows or dreys (nests constructed from vegetation, which are generally in the canopy but can occasionally be found at ground level). Home range size varies with the productivity of the habitat but is generally less than 5 ha, although densities of up to 20 individuals per hectare have been recorded in Peppermint woodland near Busselton (Department of Parks and Wildlife 2017). Some populations breed throughout the year, but on the southern Swan Coastal Plain females give birth to one young (more rarely up to three) in autumn (April-June); these are weaned and independent at six to seven months (Department of Parks and Wildlife 2017).

The species was once widely distributed across southern and south-western Western Australia but due to habitat clearing and fragmentation for agricultural and urban development, it is now restricted to three areas: the southern Swan Coastal Plain, the Jarrah forests near Manjimup and the south coast between Albany and Walpole (Department of Parks and Wildlife 2017). Habitat loss and fragmentation continue to represent the major threat to the species, while other threats include predation by introduced carnivores, climate change, logging, fire and competition for nest hollows (DBCA 2017). The population size in the Bunbury to Dunsborough region has been estimated to be between 2,000 and 5,000 animals (Department of Parks and Wildlife 2017).

**Likelihood of occurrence:** The Western Ringtail Possum was recorded throughout the study area wherever woodland fragments, particularly mixed woodland, occurred.

### 6.1.2 Black-cockatoos

Three species of black-cockatoo in the south-west of Western Australia have documented breeding areas overlapping the study area, however it is only located in the typical breeding distribution of the Forest Red-tailed Black-Cockatoo (Johnstone and Storr 1998, DSEWPaC 2012). Black-cockatoos require tree hollows with suitable dimensions for nesting and breeding, which typically occur in larger trees over 200 years old (DSEWPaC 2012). As such, breeding habitat trees are defined in the Federal guidelines as any tree with a DBH equal to or greater than 50 cm (DSEWPaC 2012). Activities such as logging and deforestation for agriculture have contributed to a decline in abundance and range of black cockatoos, hence their listing as conservation significant species.

### 6.1.2.1 Carnaby's Black-Cockatoo (Calyptorhynchus latirostris)

Carnaby's Black-Cockatoo is listed as Schedule 2 – Endangered under the BC Act and Endangered under the EPBC Act.

This species is distributed from Kalbarri to Esperance. During the breeding season, between July and November, they have been historically concentrated in the Wheatbelt region (Johnstone and Storr 1998, Saunders et al. 2014b). Here, they primarily nest in Salmon Gum (E. salmonophloia) and Wandoo (E. wandoo) but are also known to nest in Tuart (E. gomphocephala), Marri (Corymbia calophylla), Red Morrel (E. longicornis) and York Gum (E. loxophleba) (Johnstone and Storr 1998).

The Swan Coastal Plain has historically been more important as a foraging area than for breeding, with the birds moving into the area after breeding and occurring in the autumn and winter months. The species' breeding stronghold is in the Wheatbelt, but has been moving onto the Swan Coastal Plain more recently (DoEE 2017). Expansion in breeding range further south and

west towards the Jarrah–Marri forests of the Darling Scarp and Tuart forests of the Swan Coastal Plain (including near Bunbury) has occurred in the past 10 to 30 years (Johnstone et al. 2010). Long-term studies show Carnaby's Black-Cockatoos utilise hollows ranging from 10 – 65 cm in diameter (average 26 cm) and approximately 130 cm deep (Saunders et al. 2014a, 2014b). They also frequent coastal areas outside of the breeding season where they forage in large flocks (Saunders et al. 2011), feeding on the seeds of Banksia and Eucalyptus species such as Jarrah, Marri and Karri (E. diversicolor).

Likelihood of occurrence: Occurs; foraging evidence was recorded within the study area.

### 6.1.2.2 Baudin's Black-Cockatoo (*Calyptorhynchus baudinii*)

Baudin's Black-Cockatoo is listed as Schedule 2 – Endangered under the BC Act and Vulnerable under the EPBC Act.

Life history and distribution of Baudin's Black-Cockatoo is less well known than that of Carnaby's Black-Cockatoo because earlier research and publications did not distinguish between Baudin's and Carnaby's, which were not taxonomically split until 1948. Baudin's Black-Cockatoo occurs in the humid and subhumid areas of the southwest, it ranges north to Gidgegannup and Hoddy Well and east to Clackline, Wundowie, the lower Darkin River, Boyagin Rock, Wandering, Williams, Kojonup and the King River also west to the eastern strip of the Swan Coastal Plain including West Midland, Armadale, Byford, Mundijong, Serpentine, North Dandalup and further west to the coast at Lake Clifton, Australind, Bunbury, Busselton, Dunsborough, Leeuwin-Naturaliste National Park and Augusta, also the Stirling and Porongurup Ranges and east along the south coast to Waychinicup National Park (Johnstone et al. 2010).

While there is very little breeding information available for the species (Johnstone et al. 2010), the "extrapolated" (DoEE 2017) breeding distribution of the species is generally described as occurring between Leschenault, Collie and Albany. Bunbury is included as a known breeding area for Baudin's Black-Cockatoo in the DoEE referral guidelines (2017). Marri and Tuart are amongst the preferred nesting trees of the species and occur within the study area. Although the specific dimensions of hollows used for breeding have not previously been studied for Baudin's Black-Cockatoo, but they are likely to be similar to those hollows used by Carnaby's Black-Cockatoo and this was the assumption applied during the breeding hollow assessment. Egglaying occurs mainly from August to December with 1 -2 eggs incubated by the female alone (Johnstone et al. 2010).

Between March and September, the majority of the population migrates north from the cooler Karri forest to the central and northern Darling Range and Swan Coastal Plain (Johnstone et al. 2010). They feed mainly on the seeds of Marri trees, as well as various species of *Banksia* and *Hakea* (Johnstone and Storr 1998).

**Likelihood of occurrence:** Occurs. Secondary feeding evidence was recorded in several locations from the distinct chew pattern on Marri nuts. NatureMap records place the species within the study area.

### 6.1.2.3 Forest Red-tailed Black-Cockatoo (Calyptorhynchus banksii naso)

The Forest Red-tailed Black-Cockatoo is listed as Schedule 3 – Vulnerable under the BC Act and Vulnerable under the EPBC Act.

This species occurs from Gingin in the north across to near Albany in the south (Johnstone and Storr 1998). It typically nests in Marri, Jarrah and Karri tree hollows with entrance diameters ranging from 12 – 150 cm (average 34 cm) and depths of 100 – 500 cm (average 144 cm) (Johnstone and Storr 1998, Johnstone et al. 2013). Females lay eggs between October and November and incubation is approximately 29 – 31 days, during which time the female stays with the egg and is fed by the male (Johnstone and Storr 1998). They feed mainly on Jarrah and Marri seeds but also Sheoak (Allocasuarina fraseriana), Snottygobble (Persoonia longifolia) and Swan River Blackbutt (E. patens) (Johnstone et al. 2010).

**Likelihood of occurrence:** Occurs. Forest Red-tailed Black-Cockatoos were recorded within the study area directly by observation of feeding individuals or individuals flying over, and secondarily via feeding evidence.

### 6.1.3 Chuditch (*Dasyurus geoffroii*)

The Chuditch (Dasyurus geoffroii) is listed as Schedule 3 – Vulnerable under the BC Act and Vulnerable under the EPBC Act.

Chuditch were previously known from most of Australia, occurring in every mainland state and territory. The species was relatively abundant until European settlement, when it underwent a drastic decline and range contraction. It went extinct in New South Wales in the 1940s, Victoria in the 1950s and in Queensland between 1880 and 1910. It is now largely restricted to the southwest of Western Australia, with small numbers in the Midwest, Wheatbelt and South Coast regions where continuous forest or suitable fragments remain. Historically, Chuditch inhabited a wide range of habitats, but today this species predominantly occurs in Jarrah (Eucalyptus marginata) forest, wet and dry sclerophyll forest, and mallee remnants in Western Australia (Menkhorst and Knight 2011).

Chuditch are seasonal breeders, with mating occurring in late April – early July (Menkhorst and Knight 2011). Chuditch utilise hollow logs and burrows as dens or refuges, and occur in Eucalypt forests, dry woodlands and mallee shrublands (Strahan 1995).

The Chuditch faces a number of threats including predation and competition with the Red Fox and the Feral Cat, altered fire regimes, direct mortality as a result of road trauma, habitat loss and degradation (Morris et al. 2003).

**Likelihood of occurrence**: The Chuditch was not recorded within the study area or any contextual sites, despite intensive spotlighting effort. The species has been assessed as a Possible occurrence within the study area. There are few records of Chuditch in close proximity to the study area, with four records between 1972 and 2012 ranging from 2.9 - 7.06 km away. While the study area does contain woodland habitat, only the larger area of woodland habitat within the Northern Lots is likely to be of a sufficient size to support resident Chuditch. Where vegetation within the study area is continuous with vegetation outside the study area, the Chuditch is a potential visitor. An example of this is the riparian vegetation corridor along the Preston River, which may represent preferable habitat at drier times of year.

### 6.1.4 Brush-tailed Phascogale (*Phascogale tapoatafa wambenger*)

The Brush-tailed Phascogale is listed as Schedule 6 – Conservation Dependent Fauna under the BC Act.

Populations of the Brush-tailed Phascogale occur at the extreme coastal extents of Australia and are threatened across most of their range. The south-west population was described as a distinct subspecies in 2015 (Aplin et al. 2015) and is distributed between Perth and Albany. It occurs at low densities in the northern Jarrah forest, with the highest densities occurring in the Perup/Kingston area, Collie River valley, and near Margaret River and Busselton (DBCA 2012).

The wambenger subspecies has been observed in dry sclerophyll forests and open woodlands that contain hollow-bearing trees but a sparse ground cover. Records are less common from wetter forests. Brush-tailed Phascogales are nocturnal arboreal carnivores that forage for food under the bark of trees (van Dyck and Strahan 2008). This feeding mode and the use of tree hollows for shelter results in a preference for large trees, particularly Jarrah and Marri with over 95 cm DBH (Rhind 1996).

Brush-tailed Phascogales are short-lived, with all males dying at the end of the breeding season and a small number of females living up to 2.5 years, long enough to produce a litter in their second year (Rhind and Bradley 2002). They maintain relatively large territories (over 20 ha) and female territories are exclusive; as a result, densities tend to be low.

Likelihood of occurrence: Occurs; the Brush-tailed Phascogale was recorded at two locations within the study area and two contextual sites nearby. NatureMap records also place the species within 250 m of the study area in 2013.

#### 6.1.5 Carter's Freshwater Mussel (Westralunio carteri)

Carter's Freshwater Mussel is listed as Schedule 3 – Vulnerable under the BC Act and Vulnerable under the EPBC Act.

The only freshwater mussel in south-west Western Australia, Carter's Freshwater Mussel was added to both State and Federal conservation listings in 2018 following recognition of its declining distribution, thought to be primarily caused by increasing salinity and drying of its habitat. Comparing historical and current records indicates that the species is likely to have undergone a 49% reduction in its distribution in three generations (Klunzinger et al. 2015). Once distributed from Moore River in the north to King George Sound in the south and inland to the Avon River, the species now only occurs within freshwater streams, rivers, reservoirs and lakes within 50 – 100 km of the coast, from Gingin Brook southward to the Kent River, Goodga River and Waychinicup River.

The life-history of the species contributes to its vulnerability, with an age at sexual maturity of 3-6 years and complex maturation stages, including a parasitic larval stage where glochidia must attach to the gills of host fish (Klunzinger et al. 2014).

The species is patchily distributed in sandy/muddy sediments of freshwater lakes, rivers and streams, with greatest densities associated with exposed submerged tree roots of Flooded Gums (Eucalyptus rudis), Melaleuca spp. and others, woody debris, and overhanging riparian vegetation near stream banks and edges of lakes/dams. Precise habitat requirements and quantification within habitat types are in the early stages of study for this species. Juveniles may require specific micro-habitats and are difficult to locate in the wild.

Likelihood of occurrence: Occurs. Carter's Freshwater Mussel was observed along the Preston River both within the study area and nearby. The species was also recorded from four locations spanning the study area in a separate aquatic study (WRM 2019).

### 6.2 **Non-Target Species with Potential to Occur**

### 6.2.1 Southern Brown Bandicoot, Quenda (*Isoodon obesulus fusciventer*)

The Southern Brown Bandicoot is listed as a Priority 4 species by the DBCA (see DBCA 2018).

It is patchily distributed, occurring along the Swan Coastal Plain and in Jarrah and Karri forests from just north of Perth to east of Esperance. It occurs in habitats with sandy soil supporting dense vegetation in the lower stratum. Along the Swan Coastal Plain, the species is often associated with wetlands (van Dyck and Strahan 2008, van Dyck et al. 2013).

The Southern Brown Bandicoot is a medium-sized ground-dwelling marsupial that is territorial. Breeding in this species is opportunistic, beginning in winter and peaking in spring, and lasting 6 – 8 months. The species constructs a nest of ground litter over a shallow depression next to or under logs, shrubs or debris piles. It is mostly nocturnal, but is sometimes active during the day when it searches for invertebrates, fungi and subterranean plant material (van Dyck and Strahan 2008, van Dyck et al. 2013).

Likelihood of occurrence: The Southern Brown Bandicoot was categorised as 'Likely to occur' based on the presence of suitable habitat, together with diggings observed within the study area during the current survey. Multiple historical records have been recorded since 1992, with the closest record 320 m from the study area (according to NatureMap).

### 6.2.2 Western False Pipistrelle (*Falsistrellus mackenziei*)

This bat is listed as a Priority 4 species by the DBCA (see DBCA 2018).

This species is restricted to the south-western corner of Western Australia and has not been seen in the northern part of its range (north of Collie in the Jarrah forest, north of Mandurah on the Swan Coastal Plain) since 1993 (Armstrong et al. 2017). It occurs in high rainfall areas dominated by Jarrah, Karri, Marri and Tuart. It prefers tall mature forest, but has also been recorded from Banksia woodland on the Swan Coastal Plain (Armstrong et al. 2017). This species forages under the tree canopy and along forest tracks, and roosts within tree hollows and fallen hollow logs. No information on the breeding biology of this species is available (Armstrong et al. 2017).

The Western False Pipistrelle faces multiple threats, including habitat loss as a result of logging, burning and clearing, as well as competition for resources from introduced species such as the European Honey Bee and Rainbow Lorikeet (Armstrong et al. 2017).

**Likelihood of occurrence:** Possible. In recent years, the species has been recorded from near Stratham and Australind. Where woodland habitat in the study area is continuous with larger areas outside, it is possible that the species may occur.

### 6.2.3 Water Rat (*Hydromys chrysogaster*)

The Water Rat or Rakali is listed as a Priority 4 species by the DBCA (see DBCA 2018).

The Water Rat is widely distributed around Australia and its offshore islands, New Guinea and some adjacent islands. It occurs in fresh or brackish water habitats in the southwest of Western Australia, but occurs in marine environments along the Pilbara coastline and offshore islands (Strahan 1995).

The Water Rat is an opportunistic predator, feeding on large aquatic insects, fish, crustaceans, mussels, frogs, lizards, small mammals, fresh carrion and water birds (van Dyck and Strahan 2008). The Water Rat is not entirely nocturnal; it is most active around sunset but may forage during the day. Breeding occurs throughout the year, but most young are born between spring and late summer (van Dyck and Strahan 2008).

The Water Rat faces predation by the Feral Cat (*Felis catus*) and the European Red Fox (*Vulpes vulpes*), and as such faces the threat of population decline via direct mortality. Swamp reduction and flood mitigation have also removed habitat, and salinity and degradation of waterways have caused significant declines in southwest populations (van Dyck and Strahan 2008).

**Likelihood of occurrence:** The Water Rat is considered 'Likely to occur' because of the close proximity of previous records and presence of suitable habitat, including the Preston River. There are 11 records within 10 km of the study area, with the closest record <1 km away.

### 6.2.4 Western Brush Wallaby (*Notamacropus irma*)

The Western Brush Wallaby is listed as a Priority 4 species by the DBCA (see DBCA 2018).

This species is endemic to the south-west of Western Australia, where it is distributed from north of Kalbarri to near Cape Arid. It inhabits a wide range of habitats, including open forest and woodland, mallee, heathland, low open grasslands and thickets (Woinarksi and Burbidge 2016). It is absent from Karri forests with dense undergrowth.

Breeding occurs between April and May, with young emerging from the pouch from October to November.

Historically, population declines were caused by poachers trading skins, the introduction of the fox and clearing of habitat for agriculture. Foxes are still a threat to the survival of this species, with juveniles most at risk of predation.

Likelihood of occurrence: The species is not commonly recorded in the Bunbury area (based on NatureMap records). The most recent record for the Western Brush Wallaby was almost 5 km from the study area, recorded in 2015. However, given the availability of woodland habitat, this species has been assessed as a possible occurrence within the study area.

### 6.2.5 Blue-billed Duck (Oxyura australis)

The Blue-billed Duck is listed as a Priority 4 species by the DBCA (see DBCA 2018).

In Western Australia, the Blue-billed Duck occurs predominantly in the southwest with their range extending from Lake Pinjarrega in the north and east across to Esperance (Johnstone and Storr 1998). They are almost exclusively aquatic, with preferred habitat including deep freshwater swamps or lakes and occasionally saltwater lakes or estuaries inundated with fresh water.

Breeding occurs from early August to the end of March, with nests made out of trampled bulrushes 10–30 cm above water (Johnstone and Storr 1998).

Likelihood of occurrence: Likely to occur. There have been 90 records of the Blue-billed Duck near to the study area since 1990, with the closest record 200 m away. The study area also intersects a portion of the Preston River, which is fringed by vegetation in some areas, and may serve as suitable habitat.

### 6.2.6 Coastal Plains Skink (Ctenotus ora)

The Coastal Plains Skink is listed as a Priority 3 species by the DBCA (2018).

This species is relatively newly described, having been grouped with Ctenotus labillardieri prior to 2012 (Kay and Keogh 2012). Records of the species are sparse but it is described as inhabiting open eucalypt woodland over banksia and low vegetation on sandy coastal plains and dunes.

Likelihood of occurrence: Possible. Records of this skink have to date been largely coastal but include a record from Eaton. Given the paucity of data, a conservative approach has been taken and the species is considered as a possible resident.

### 6.3 Non-target Species that are Unlikely to Occur

The following species were returned from database searches but are considered unlikely to occur in the study area based on habitat preference and known distributions.

### 6.3.1 Woylie, Brush-tailed Bettong (Bettongia penicillata ogilbyi)

The Woylie is listed as Schedule 1 – Critically Endangered under the BC Act and Endangered under the EPBC Act.

Once very common and distributed over much of Australia, the species suffered severe decline following European colonisation and the introduction of feral predators. This medium weight range marsupial is nocturnal and forages primarily for native fungi.

Likelihood of occurrence: Unlikely to occur. One record of the Woylie was returned from the NatureMap database, however the species is now known to have a distribution restricted to two small areas (the Upper Warren and Dryandra Woodland). Translocated populations occur at Batalling and inside fenced areas in Mt Gibson, Karakamia and Whiteman Park.

#### 6.3.2 Quokka (Setonix brachyurus)

The Quokka is listed as a Schedule 3 – Vulnerable species under the BC Act and as Vulnerable under the EPBC Act.

The Quokka occurs in isolated populations on Rottnest Island, Bald Island and fragmented areas of the mainland between the Hunter Valley and Jarrah forests south of Perth. The Quokka has specific habitat requirements, preferring dense understorey vegetation or a complex vegetation structure (comprising at least three layers) that provides ample protection from predators. The Quokka also requires water to be nearby and is often found in swampy or riparian areas. Critical habitat in both the northern and southern extent of its range is described as patches of varying fire age, with some areas more recently burnt. This may reflect their preference to feed on new growth vegetation in recently burnt areas.

Historically, disease and the introduction of the Red Fox have been responsible for major population declines. Current threats include uncontrolled fox populations and loss of habitat through inappropriate fire regimes. The Quokka is also indirectly affected by dieback disease, which has the potential to severely alter vegetation structure.

Likelihood of occurrence: Unlikely to occur. The nearest record of the species is from swampland near Stratham (<5 km from the study area), however this represents the only known remaining population on the Swan Coastal Plain.

#### 6.3.3 Numbat (*Myrmecobius fasciatus*)

The Numbat is listed as Schedule 2 – Endangered under the BC Act and Endangered under the EPBC Act.

The Numbat is a small marsupial with a distinctive striped appearance, and because of its specialised diet (eating termites only), it is the sole animal placed in the family Myrmecobiidae.

Prior to European settlement, the Numbat had distributions in New South Wales, South Australia and Western Australia but it is now only known to be surviving in small areas of Jarrah forest at Dryandra and in the Upper Warren area. Land clearing, altered fire regimes and the introduction of feral predators are all likely factors in their decline (Department of Biodiversity, Conservation and Attractions 2017).

Likelihood of occurrence: Unlikely to occur. While one record of the species was returned from the NatureMap database, this is likely to be very old. The species is now considered restricted to Dryandra and the Upper Warren.

### **Discussion** 7.0

Based on their known occurrence, habitat suitability and listing at both state and Commonwealth level, the three black-cockatoo species (Forest Red-tailed Black-Cockatoo, Carnaby's Black-Cockatoo and Baudin's Black-Cockatoo) and the Western Ringtail Possum were the primary focus of the current targeted survey work. However, the methods used and intensity of sampling to target these species was also applicable to the survey of most other conservation significant species with the potential to occur within the study area, including the Chuditch, Brush-tailed Phascogale, Quokka, Quenda, Water Rat and Blue-billed Duck.

### 7.1 **Western Ringtail Possum**

This study assessed the importance of identified Western Ringtail Possum habitat within the study area by direct comparison with habitat in a local setting (four contextual sites within an 18 km radius of the Bunbury town centre). Density was identified as the preferred metric for making such comparisons and was estimated using either strip transects or a line-transect distance sampling approach, depending on the extent of habitat. Within the study area, Western Ringtail Possums were found within habitat ranging from relatively isolated individual trees through to remnant vegetation strips (along road reserves and riparian belts) surrounded by cleared land, and to larger remnants either isolated from or broadly contiguous with much larger remnants. Narrow habitat corridors were not amenable to undertaking a distance sampling program: to obtain density estimates in such sections, the strip transect approach was adopted. Strip transects with a width of 25 m were considered a suitable method for estimating density, given that over this distance the probability of detection was essentially 1.0 (see Figure 5.5) and that in most instances the area of habitat was clearly demarcated. Distance sampling was used to estimate density within one larger remnant within the study area (Northern Lots) and at four contextual sites (Lot 2) Boyanup–Picton Rd, Manea Park, Reserve 23,000 and Southern Lots).

The estimated abundance of the Western Ringtail Possum within each study site is given in Table 7.1. The strip transects within the study area yielded 46 sightings of Western Ringtail Possums and, when the estimated number of individuals based on the distance sampling exercises in the Northern Lots are included (21  $\pm$  9), the estimate for the study area increased to between 58 and 76 individuals. Based on the 58 to 76 individuals and an area of identified habitat of 133.8 ha, the density estimate is between 0.43 and 0.57 per ha, which is at the lower end of estimates derived from the distance sampling exercises in the four contextual sites.

Context was considered at the local scale by comparison with the density estimates yielded from the distance sampling program in the four relatively large (greater than 87 ha) contextual sites and some small strip sampling sites (Gelorup study site, Maidment Parade, Golf Drive, and along the Preston River). The distance sampling yielded a total population estimate of approximately 462 individuals for the sampled areas of the contextual sites. The estimate increases to approximately 878 individuals if unsampled habitat contiguous with each of the study sites is assumed to support equivalent densities. The contextual strip sampling localities yielded a further 27 individuals. Based on the above, the total estimated population size for the contextual study sites and contiguous remnant habitat was about  $905 \pm 178$  individuals, suggesting that the total number of Western Ringtail Possums in an 18 km radius around Bunbury town centre may be potentially in excess of 1,000 individuals. Of this number, between 58 and 76 have been estimated to occur in the study area.

**Table 7.1:** Sightings and abundance estimates of study sites within the study area and contextual sites.

Study Sites	Sightings	Estimated in Surveyed Area	Estimated in Contiguous Unsurveyed Areas †	Total
		Study Area		
Distance Sampling				
Northern Lots	18	21 ± 9	NA	21 ± 9
Strip Sampling				
Brunswick River Bridge to Raymond Road	21	21	NA	21
Davenport Localities - part	14	14	NA	14
Picton East	9	9	NA	9
Golf Drive - part	2	2	NA	2
Sub-total	64	67 ± 9	NA	67 ± 9
	C	Contextual Sites		
Distance Sampling				
Lot 2 Boyanup–Picton Rd	60	121 ± 17	NA	121 ± 17
Manea Park	103	186 ± 41	309 ± 83	495 ± 132
Reserve 23,000	52	82 ± 16	25 ± 3	107 ± 12
Southern Lots	33	73 ± 20	82 ± 9	155 ± 17
Strip Sampling				
Davenport Localities - part	7	7	NA	7
Golf Drive - part	4	4	NA	4
Gelorup	14	14	NA	14
Maidment Parade road reserve	2	2	NA	2
Sub-total	275	489 ± 94	416 ± 95	905 ± 178
Total	339	556 ± 103		945 ± 187

This assumes equivalent habitat and equivalent density to the contiguous surveyed area, an assumption that has not been tested.

### 7.2 **Black-cockatoos**

The field survey recorded evidence of all three species of black-cockatoo occurring within the study area.

Applying the Foraging Habitat Scoring Tool (DoEE 2017) to the study area, resulted in 967.1 ha being classified as non-foraging habitat, largely areas that have already been cleared, 58.2 ha of habitat was classified as Very High Quality, 19.2 ha as High Quality, 14.2 ha as Quality and 69.8 ha as Low Quality. Evidence of foraging by all three black-cockatoo species was recorded within the study area.

The study area falls within the known breeding distribution for all three species of black-cockatoo (DoEE 2017). Eucalypt woodland dominated the larger fragments remaining within the study area. A total of 2,804 individual trees met the >50 cm DBH criteria of a potential breeding habitat tree (that is, a tree of a size with potential to form a suitable hollow, DoEE 2017). However, of this large number of potential breeding habitat trees, the dedicated hollow-assessment found only 19 trees supporting 20 hollows suitable for black-cockatoo nesting. One hollow was found to contain what appeared to be a black-cockatoo nest from the previous breeding season (two broken eggs of a size and colour consistent with black-cockatoos).

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# **Appendix 1**

Statutory Framework





### **Commonwealth EPBC Act**

Fauna species of national environmental significance are listed under the Commonwealth EPBC Act (Department of the Environment 2017), and may be classified as 'critically endangered', 'endangered', 'vulnerable' or 'lower risk', which are consistent with IUCN categories.

**Critically Endangered (CR):** a taxon is Critically Endangered when it is facing an extremely high risk of extinction in the wild in the immediate future.

**Endangered (EN):** a taxon is Endangered when it is not Critically Endangered but is facing a very high risk of extinction in the wild in the near future.

**Vulnerable (VU):** a taxon is Vulnerable when it is not Critically Endangered or Endangered but is facing a high risk of extinction in the wild in the medium-term future.

**Lower Risk (LR):** a taxon is Lower Risk when it has been evaluated, does not satisfy the criteria for any of the categories Critically Endangered, Endangered or Vulnerable. Taxa included in the Lower Risk category can be separated into three subcategories:

- Conservation Dependent (CD). Taxa which are the focus of a continuing taxon-specific or habitat-specific conservation program targeted towards the taxon in question, the cessation of which would result in the taxon qualifying for one of the threatened categories above within a period of five years.
- 2. **Near Threatened (NT).** Taxa which do not qualify for Conservation Dependent, but which are close to qualifying for Vulnerable.
- 3. **Least Concern (LC).** Taxa which do not qualify for Conservation Dependent or Near Threatened.

**Migratory species** are also protected under the EPBC Act as species of national environmental significance. Migratory species are those animals that migrate to Australia and its external territories, or pass through or over Australian waters during their annual migrations. The list of migratory species consists of those species listed under the following international conventions:

- 1. Convention on the Conservation of Migratory Species of Wild Animals (Bonn Convention);
- 2. China-Australia Migratory Bird Agreement (CAMBA);
- 3. Japan-Australia Migratory Bird Agreement (JAMBA); and,
- 4. Republic of Korea-Australia Migratory Bird Agreement (ROKAMBA).

**Marine species** are also protected under the EPBC Act, and are listed to ensure the long-term conservation of the species. Marine species include all Australian sea snakes, seals, crocodiles, dugongs, marine turtles, seahorses and seabirds that naturally occur in the Commonwealth marine area.

### Western Australian Wildlife Conservation Act 1950

Classification of rare and endangered fauna under the state *Wildlife Conservation (Specially Protected Fauna) Notice 2016* (State of Western Australia 2017), recognises seven distinct schedules of taxa:

- **Schedule 1:** fauna that are rare or likely to become extinct as critically endangered fauna (CR).
- Schedule 2: fauna that are rare or likely to become extinct as endangered fauna (EN).
- **Schedule 3:** fauna that are rare or likely to become extinct as vulnerable fauna (VU).
- **Schedule 4:** fauna presumed to be extinct (EX).

**Schedule 5:** birds that are subject to an agreement between the government of Australia and the governments of Japan, China and the Republic of Korea relating to the protection of migratory birds, and birds in danger of extinction, which are declared to be fauna in need of special protection.

**Schedule 6:** fauna that is of special conservation need as conservation dependent fauna (CD). This category of species contains those taxa that do not meet the criteria for listing as threatened, but which are being maintained by specific management programmes.

**Schedule 7:** Other specially protected fauna (OS). This category contains those taxa that are at risk from harvesting, or other human interactions, which have potential to affect their conservation status if not appropriately managed.

### Department of Biodiversity, Conservation and Attractions Priority Fauna

In addition, the Department of Biodiversity, Conservation and Attractions maintains a list of Priority species that have not been assigned statutory protection under the Wildlife Conservation Act 1950 (see DBCA 2018). Species on this list are considered to be of conservation priority because there is insufficient information to make an assessment of their conservation status or they are considered to be rare but not threatened and are in need of monitoring. Under this list, species are classified according to five Priority categories:

### Priority One: Taxa with few, poorly known populations on threatened lands

Taxa which are known from few specimens or sight records from one or a few localities on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, active mineral leases. The taxon needs urgent survey and evaluation of conservation status before consideration can be given to declaration as threatened fauna.

### Priority Two: Taxa with few, poorly known populations on conservation lands

Taxa that are known from few specimens or sight records from one or a few localities on lands not under immediate threat of habitat destruction or degradation, e.g. national parks, conservation parks, nature reserves, State forest, unallocated Crown land, water reserves, etc. The taxon needs urgent survey and evaluation of conservation status before consideration can be given to declaration as threatened fauna.

**Priority Three: Taxa with several, poorly known populations, some on conservation lands**Taxa that are known from few specimens or sight records from several localities, some of which are on lands not under immediate threat of habitat destruction or degradation. The taxon needs urgent survey and evaluation of conservation status before consideration can be given to declaration as threatened fauna.

### Priority Four: Taxa in need of monitoring

Taxa that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and which are considered not currently threatened or in need of special protection, but could be if present circumstances change. These taxa are usually represented on conservation lands.

### Priority Five: Taxa in need of monitoring

Taxa that are not considered threatened but are subject to a specific conservation program, the cessation of which would result in the species becoming threatened within five years.

# **Appendix 2**

### DBCA Regulation 17 Licence





### **DEPARTMENT OF PARKS AND WILDLIFE**





Enquiries: 17 DICK PERRY AVE, KENSINGTON, WESTERN AUSTRALIA

Telephone: 08 9219 9000 Facsimile: 08 9219 8242

Correspondance:

Web Site: https://wildlifelicensing.dpaw.wa.gov.au

Locked Bag 30

Bentley Delivery Centre WA 6983 NO.

### Wildlife Conservation Act 1950 REGULATION 17

### Regulation 17 – Licence to take fauna for scientific purposes (Regulation 17 - Standard)

The undermentioned person may take fauna for research or other scientific purposes and where authorised, keep it in captivity, subject to the following and attached conditions, which may be added to, suspended or otherwise varied as considered fit.

**Director General** 

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### **Conditions**

- 1 The licensee must comply with the provisions of the Wildlife Conservation Act 1950, Wildlife Conservation Regulations 1970 and any Notices in force under this legislation.
- 2 The licensee shall take fauna only in the manner stated on the endorsed Regulation 17 licence application form and endorsed related correspondence.
- 3 Unless specifically authorised in the conditions of this Licence or otherwise in writing by the Director General, species of fauna declared as likely to become extinct, rare or otherwise in need of special protection shall not be taken.
- 4 Any by-catch of fauna, which is declared to be rare, likely to become extinct, or otherwise in need of special protection shall be released immediately at the point of capture. Where such fauna taken under this licence is injured or deceased, the licensee shall contact the Department's Wildlife Licensing Section for advice on disposal. Records must be kept of any such fauna so captured and details are to be included in the report required under further condition below
- Any interaction involving Gazetted Threatened Fauna that may be harmful to the fauna and/or invasive may require approval from the Commonwealth Department of the Environment ph 02 6274 1111. Interaction with such species is controlled by the Commonwealth Environment Protection and Biodiversity Conservation Act 1999 and Environment Protection and Biodiversity Conservation Act 1950 and Wildlife Conservation Regulations 1970.
- 6 No fauna shall be taken in areas where it would impinge on pre-existing scientific research programs.
- 7 Except in the case of approved lethal traps, the licensee shall ensure that measures are taken in the capture and handling of fauna to prevent injury or mortality resulting from that capture or handling. Where traps or other mechanical means or devices are used to capture fauna these shall be deployed so as to prevent exposure of trapped animals to ants and debilitating weather conditions and inspected at regular intervals throughout each day of their use. At the conclusion of research all markers used, and signs and structures erected by the licensee shall be removed and the environment returned to its original condition.
- 8 Not more than ten specimens of any one protected species of fauna shall be taken and removed from any location less than 20km apart. Where exceptional circumstances make it necessary to take a larger number of specimens from a particular location in order to obtain adequate statistical data, the collector must proceed with circumspection and justify their actions to the Director General in advance.
- 9 The licensee shall not release any fauna or their progeny in any area where it does not naturally occur, nor hand such fauna over to any other person or authority unless approved by the Director General, nor dispose of the remains of such fauna in any manner likely to confuse the natural or present day distribution of the species.
- **10** Bioprospecting involving the removal of sample aquatic and terrestrial organisms for chemical extraction and bioactivity screening shall not be conducted without specific written approval by the Director General.
- 11 No fauna is to be taken from any CALM land, as defined in the Conservation and Land Management Regulations 2002, without prior written approval of the Director General. No fauna is to be taken from any public land without the prior written approval of the Government Authority managing that land.
- 12 The licensee must not enter upon any private property or pastoral lease for the purposes of this licence, nor take any fauna from any private land or pastoral lease without the prior consent in writing of the owner or occupier. Similarly, in the case of Aboriginal lands, the licensee must not enter upon or take fauna from such lands without the written approval of the Department of Aboriginal Affairs and/or the relevant native title holders or applicants.
- 13 Copies of this licence and any written approval or consent required by conditions of this licence must be carried by the licensee and any person/s authorised under the licence at all times when conducting activities relevant to the licence

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Bentley Delivery Centre WA 6983 NO. 08-002773-2

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and must be presented to an authorised officer of the Department upon request.

Correspondance:

- 14 All holotypes and syntypes and a half share of paratypes of species or subspecies permitted to be permanently taken under this licence shall be donated to the Western Australian Museum. Duplicates (one pair in each case) of any species collected, which represents a significant extension of geographic range shall upon request be donated to the Western Australian Museum.
- 15 To prevent any unnecessary collecting in this State, all specimens and material taken and retained under the authority of this license shall, upon request, be loaned to the Western Australian Museum. Any unused portion or portions of any specimen collected under the authority of this license shall be offered to the Western Australian Museum for inclusion in its collection or made available to other scientific workers if so required.
- 16 Within one month of the expiration of this licence, the holder shall submit an electronic return into the department's Wildlife Licensing System, detailing the locality, site, geocode, date and number of each species of fauna captured, sighted or vouchered during the currency of the licence. A copy of any paper, report or thesis resulting from the research shall upon completion be lodged with the Director General.

### **Purpose**

Bunbury Outer Ring Road Alternate Alignments Fauna Assessment for Main Roads WA, targeting conservation significant species, including but not limited to; western ringtail possum (Pseudocheirus occidentalis), Carnaby's cockatoo (Calyptorhynchus latirostris), Baudin's cockatoo (Calyptorhynchus baudinii), forest red-tailed black cockatoo (Calyptorhynchus banksii naso), south-western brush-tailed Phascogale (Phascogale tapoatafa wambenger), Chuditch (Dasyurus geoffroii) and Carter's Freshwater Mussel (Westralunio carteri). Fauna surveys by spotlighting / head torching, aural survey, secondary evidence and habitat assessment, and using camera traps, bat detectors, cage traps and Elliott traps. Captured fauna will have morphometrics and physical condition details recorded prior to release at capture site. Location:

### Locations

Bunbury Outer Ring Road Alternate Alignments project area; within City of Bunbury, Shire of Capel and Shire of Dardanup.

### **Authorised Person**

Surname	Given name(s)
Teale	Roy
Ford	Stewart
King	Jacinta
Graff	John
Greenham	Michael
Brooshooft	Penny
Joshua	Keen
Priddle	Shane
King	Brandon

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 24/10/2018

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 24/10/2018

 Date of Expiry
 31/12/2018

Licensee: Dr Victoria Anne Cartledge
Address Biota Environmental Sciences

12 Bates Road Innaloo WA 6018

Australia

Issued by a Wildlife Licensing Officer of the Department of Parks and Wildlife under delegation from the Minister for Environment pursuant to section 133(1) of the Conservation and Land Management Act 1984.

# **Appendix 3**

### Desktop Review Results





### A3: Mammals

Species Name	Common Name	State Listing	Federal Listing	Nature Map	EPBC PMST	Lot 15 2010	BORR 2012	Lot 1 Ducane 2014	Waterloo 2015
Bettongia penicillata ogilbyi	Woylie, Brush-tailed Bettong	\$1	EN	•	•				
Bos taurus	European Cattle			•		•		•	
Canis Iupus	Domestic Dog				•		•	•	
Cercartetus concinnus	Western Pygmy-possum			•					
Chalinolobus gouldii	Gould's Wattled Bat			•					
Dasyurus geoffroii	Chuditch	\$3	VU	•	•				
Equus caballus	Horse					•		•	
Falsistrellus mackenziei	Western False Pipistrelle	P4		•					
Felis catus	Cat			•	•	•	•		•
Hydromys chrysogaster	Water-rat	P4		•				•	
Isoodon fusciventer	Southern Brown Bandicoot	P4		•			•	•	
Macropus fuliginosus	Western Grey Kangaroo			•		•	•	•	•
Mus musculus	House Mouse			•	•				
Myrmecobius fasciatus	Numbat	\$2	EN	•					
Notamacropus irma	Western Brush Wallaby	P4		•					
Nyctophilus geoffroyi	Lesser Long-eared Bat			•					
Nyctophilus gouldi	Gould's Long-eared Bat			•					
Oryctolagus cuniculus	Rabbit			•	•	•	•	•	•
Phascogale tapoatafa wambenger	Wambenger Brush-tailed Phascogale	\$6		•					
Pseudocheirus occidentalis	Western Ringtail Possum	\$1	CR	•	•	•	•	•	•
Rattus fuscipes	Western Bush Rat			•					
Rattus rattus	Black Rat			•	•		•		
Setonix brachyurus	Quokka	\$3	V	•	•				
Sus scrofa	Pig			•	•		•		
Tachyglossus aculeatus	Short-beaked Echidna						•		
Trichosurus vulpecula	Common Brushtail Possum			•			•	•	•
Vespadelus regulus	Southern Forest Bat			•					
Vulpes vulpes	Red Fox			•	•	•	•	•	•

### A3: Birds

Species Name	Common Name	State Listing	Federal Listing	ure	O 15	5.0	2 2	Lot 1 Ducane 2014	Waterloo 2015
				Nature Map	EPBC PMST	Lo 15 2010	BORR 2012	Lot 1 Duca 2014	Wal 201
Acanthiza apicalis	Inland Thornbill			•					
Acanthiza chrysorrhoa	Yellow-rumped Thornbill			•			•	•	•
Acanthiza inornata	Western Thornbill			•			•	•	
Acanthorhynchus superciliosus	Western Spinebill			•					•
Accipiter cirrocephalus	Collared Sparrowhawk			•					
Accipiter fasciatus	Brown Goshawk		Ма	•					•
Acrocephalus australis	Australian Reed-Warbler			•					
Actitis hypoleucos	Common Sandpiper	\$5	M; Ma	•	•				
Anas castanea	Chestnut Teal			•					
Anas gracilis	Grey Teal			•					•
Anas superciliosa	Pacific Black Duck			•			•		•
Anhinga novaehollandiae	Australasian Darter			•					
Anthochaera carunculata	Red Wattlebird			•			•	•	•
Anthochaera lunulata	Western Wattlebird			•			•		
Anthus novaeseelandiae	Australasian Pipit					•	•		•
Aquila audax	Wedge-tailed Eagle			•			•		
Ardea alba	Great Egret		Ма	•	•				
Ardea pacifica	White-necked Heron			•					•
Arenaria interpres	Ruddy Turnstone	\$5	M; Ma	•					
Artamus cinereus	Black-faced Woodswallow			•			•		•
Artamus cyanopterus	Dusky Woodswallow			•		•			•
Aythya australis	Hardhead			•					
Barnardius zonarius	Australian Ringneck			•		•	•	•	•
Biziura lobata	Musk Duck		Ма	•					•
Bubulcus ibis	Cattle Egret		Ма	•	•				
Burhinus grallarius	Bush Stone-curlew			•					
Butorides striata	Striated Heron								•
Cacatua pastinator	Western Corella			•					
Cacatua sanguinea	Little Corella			•					•

Species Name	Common Name	State Listing	Federal Listing	Nature Map	EPBC PMST	Lo 15 2010	BORR 2012	Lot 1 Ducane 2014	Waterloo 2015
Cacatua tenuirostris	Long-billed Corella						•		
Cacomantis flabelliformis	Fan-tailed Cuckoo		Ма	•			•		
Calidris acuminata	Sharp-tailed Sandpiper	\$5	M; Ma	•	•				
Calidris canutus	Red Knot		EN; M; Ma	•	•				
Calidris ferruginea	Curlew Sandpiper	\$1, \$3; \$5	CR; M; Ma	•	•				
Calidris melanotos	Pectoral Sandpiper	\$5	M; Ma		•				
Calidris ruficollis	Red-necked Stint	\$5	M; Ma	•					
Calidris tenuirostris	Great Knot	\$1, \$3; \$5	CR; M; Ma	•					
Calyptorhynchus banksii naso	Forest Red-tailed Black-Cockatoo	\$3	VU	•	•		•	•	•
Calyptorhynchus baudinii	Baudin's Black-Cockatoo	\$2	EN	•	•				
Calyptorhynchus latirostris	Carnaby's Black-Cockatoo	\$2	EN	•	•		•	•	
Chalcites lucidus	Shining Bronze-Cuckoo			•					
Charadrius ruficapillus	Red-capped Plover		Ма	•					
Chenonetta jubata	Australian Wood Duck			•			•		•
Chroicocephalus novaehollandiae	Silver Gull		Ма	•					
Cincloramphus mathewsi	Rufous Songlark								•
Circus approximans	Swamp Harrier		Ма	•					
Cladorhynchus leucocephalus	Banded Stilt			•					
Colluricincla harmonica	Grey Shrike-thrush			•			•	•	•
Columba livia	Rock Dove			•	•				•
Coracina novaehollandiae	Black-faced Cuckoo-shrike		Ма	•		•	•	•	•
Corvus bennetti	Little Crow								•
Corvus coronoides	Australian Raven			•		•	•	•	•
Coturnix pectoralis	Stubble Quail		Ма	•					
Cracticus nigrogularis	Pied Butcherbird			•					•
Cracticus torquatus	Grey Butcherbird			•			•		•
Cygnus atratus	Black Swan			•					
Dacelo novaeguineae	Laughing Kookaburra			•			•	•	•
Daphoenositta chrysoptera	Varied Sittella			•			•		
Egretta garzetta	Little Egret								•

Species Name	Common Name	State Listing	Federal Listing	Nature Map	EPBC PMST	Lo 15 2010	BORR 2012	Lot 1 Ducane 2014	Waterloo 2015
Egretta novaehollandiae	White-faced Heron			•			•		•
Elanus axillaris	Black-shouldered Kite								•
Elseyornis melanops	Black-fronted Dotterel			•					•
Eolophus roseicapilla	Galah						•	•	•
Eopsaltria griseogularis	Western Yellow Robin			•			•		
Epthianura albifrons	White-fronted Chat			•					•
Erythrogonys cinctus	Red-kneed Dotterel			•					
Falco berigora	Brown Falcon			•					•
Falco cenchroides	Nankeen Kestrel		Ма	•		•	•		•
Falco longipennis	Australian Hobby			•			•		
Falco peregrinus	Peregrine Falcon	S7		•					•
Falcunculus frontatus	Crested Shrike-tit	P4	VU	•					
Fulica atra	Eurasian Coot			•			•		•
Gallinula tenebrosa	Dusky Moorhen			•					•
Gavicalis virescens	Singing Honeyeater					•	•		•
Gerygone fusca	Western Gerygone			•			•	•	•
Glossopsitta porphyrocephala	Purple-crowned Lorikeet						•		
Grallina cyanoleuca	Magpie-lark		Ма	•			•	•	•
Gymnorhina tibicen	Australian Magpie			•		•	•	•	•
Haliaeetus leucogaster	White-bellied Sea-Eagle		Ма	•	•				
Haliastur sphenurus	Whistling Kite		Ма	•			•	•	
Heteroscenes pallidus	Pallid Cuckoo		Ма	•					•
Hieraaetus morphnoides	Little Eagle			•					
Himantopus leucocephalus	Pied Stilt		Ма	•					
Hirundo neoxena	Welcome Swallow		Ма	•			•	•	•
Hydroprogne caspia	Caspian Tern	\$5	М	•	•				
Hypotaenidia philippensis	Buff-banded Rail			•					
Lichmera indistincta	Brown Honeyeater			•		•	•	•	•
Limosa lapponica	Bar-tailed Godwit	\$5	M; Ma	•	•				
Limosa limosa	Black-tailed Godwit	\$5	M; Ma	•					

Species Name	Common Name	State Listing	Federal Listing	Nature Map	EPBC PMST	Lo 15 2010	BORR 2012	Lot 1 Ducane 2014	Waterloo 2015
Malacorhynchus membranaceus	Pink-eared Duck			•					
Malurus elegans	Red-winged Fairy-wren			•				•	
Malurus splendens	Splendid Fairy-wren			•			•		•
Melithreptus brevirostris	Brown-headed Honeyeater			•					
Merops ornatus	Rainbow Bee-eater		Ма	•	•	•			
Microcarbo melanoleucos	Little Pied Cormorant			•			•	•	
Microeca fascinans	Jacky Winter						•		
Myiagra inquieta	Restless Flycatcher			•					
Neophema elegans	Elegant Parrot			•			•		•
Ninox boobook	Southern Boobook					•		•	•
Numenius madagascariensis	Eastern Curlew	\$1, \$3; \$5	CR	•	•				
Numenius phaeopus	Whimbrel	\$5	M; Ma	•					
Nycticorax caledonicus	Nankeen Night-Heron		Ма	•					
Ocyphaps lophotes	Crested Pigeon			•					•
Oxyura australis	Blue-billed Duck	P4		•					
Pachycephala pectoralis	Golden Whistler						•	•	
Pachycephala rufiventris	Rufous Whistler			•		•	•	•	•
Pandion haliaetus	Eastern Osprey	\$5	Ма	•	•				
Pardalotus punctatus	Spotted Pardalote			•					•
Pardalotus striatus	Striated Pardalote			•		•	•		•
Pelecanus conspicillatus	Australian Pelican		Ма	•					
Petrochelidon nigricans	Tree Martin		Ма	•			•		
Petroica multicolor	Scarlet Robin			•		•	•	•	
Phalacrocorax carbo	Great Cormorant			•					
Phalacrocorax sulcirostris	Little Black Cormorant			•					•
Phalacrocorax varius	Pied Cormorant			•					
Phaps chalcoptera	Common Bronzewing			•			•	•	•
Phaps elegans	Brush Bronzewing			•					
Phylidonyris niger	White-cheeked Honeyeater			•					
Phylidonyris novaehollandiae	New Holland Honeyeater			•			•	•	•

Species Name	Common Name	State Listing	Federal Listing	Nature Map	EPBC PMST	Lo 15 2010	BORR 2012	Lot 1 Ducane 2014	Waterloo 2015
Platalea flavipes	Yellow-billed Spoonbill			•			•		•
Platycercus icterotis	Western Rosella			•					
Plegadis falcinellus	Glossy Ibis	\$5	M; Ma	•					
Pluvialis fulva	Pacific Golden Plover	\$5	M; Ma	•					
Podargus strigoides	Tawny Frogmouth			•			•	•	
Podiceps cristatus	Great Crested Grebe			•					
Poliocephalus poliocephalus	Hoary-headed Grebe			•					
Polytelis anthopeplus	Regent Parrot			•			•		•
Poodytes gramineus	Little Grassbird			•				•	
Porphyrio porphyrio	Purple Swamphen		Ма	•					•
Porzana fluminea	Australian Spotted Crake			•					
Purpureicephalus spurius	Red-capped Parrot			•		•	•	•	•
Quoyornis georgianus	White-breasted Robin			•					
Recurvirostra novaehollandiae	Red-necked Avocet		Ма	•					
Rhipidura fuliginosa	Grey Fantail			•		•	•	•	•
Rhipidura leucophrys	Willie Wagtail			•		•	•	•	•
Rostratula australis	Australian Painted-snipe	\$2	EN		•				
Sericornis frontalis	White-browed Scrubwren			•			•		
Smicrornis brevirostris	Weebill			•		•	•	•	•
Spatula rhynchotis rhynchotis	Australian Shoveler			•					
Stictonetta naevosa	Freckled Duck			•					
Stipiturus malachurus	Southern Emu-wren	\$3		•					
Strepera versicolor	Grey Currawong			•			•		•
Streptopelia chinensis	Spotted Dove			•	•				
Streptopelia senegalensis	Laughing Dove			•	•			•	
Tachybaptus novaehollandiae	Australasian Grebe			•					
Tadorna tadornoides	Australian Shelduck			•			•		•
Threskiornis moluccus	Australian White Ibis						•	•	•
Threskiornis spinicollis	Straw-necked Ibis		Ма	•			•		•
Todiramphus sanctus	Sacred Kingfisher		Ма	•				•	•

Species Name	Common Name	State Listing	Federal Listing	Nature Map	EPBC PMST	Lo 15 2010	BORR 2012	Lot 1 Ducane 2014	Waterloo 2015
Trichoglossus moluccanus	Rainbow Lorikeet			•				•	
Tringa brevipes	Grey-tailed Tattler	S5; P4	М	•					
Tringa glareola	Wood Sandpiper	\$5	M; Ma	•					
Tringa nebularia	Common Greenshank	\$5	M; Ma	•	•				
Tringa stagnatilis	Marsh Sandpiper	\$5	M; Ma	•					
Turnix varius	Painted Button-quail	\$2	VU	•			•		
Tyto alba	Barn Owl			•					
Vanellus tricolor	Banded Lapwing			•					
Zapornia tabuensis	Spotless Crake		Ма	•					
Zosterops lateralis	Silvereye		Ма	•			•	•	•

#### A3: Reptiles

Species Name	Common Name	State Listing	Federal Listing	Nature Map	EPBC PMST	Lot 15 2010	BORR 2012	Lot 1 Ducane 2014	Waterloo 2015
						``	**		
Acritoscincus trilineatus	Western Three-lined Skink			•			•		
Chelodina colliei	South-western Snake-necked Turtle			•					
Christinus marmoratus	Marbled Gecko			•		•			
Cryptoblepharus buchananii				•			•		
Ctenotus australis				•					
Ctenotus fallens				•					
Ctenotus impar				•					
Ctenotus labillardieri				•					
Ctenotus ora	Coastal Plains Skink	P3		•					
Echiopsis curta	Bardick			•					
Egernia kingii	King's Skink			•		•			•
Egernia napoleonis				•			•		•
Elapognathus coronatus	Crowned Snake			•					
Hemiergis gracilipes				•					
Hemiergis quadrilineata				•			•		
Lerista distinguenda				•					
Lerista elegans				•					
Lialis burtonis				•					
Lissolepis luctuosa	Western Swamp Skink			•					
Menetia greyii				•		•	•		•
Morelia spilota	Carpet Python			•					
Morethia lineoocellata				•					•
Morethia obscura						•	•		
Neelaps bimaculatus	Black-naped Snake			•					
Notechis scutatus	Tiger Snake			•					
Parasuta gouldii				•					

Species Name	Common Name	State Listing	Federal Listing	Nature Map	EPBC PMST	Lot 15 2010	BORR 2012	Lot 1 Ducane 2014	Waterloo 2015
Pogona minor	Dwarf Bearded Dragon			•		•			
Pseudonaja affinis	Dugite			•			•		•
Simoselaps bertholdi	Jan's Banded Snake			•					
Tiliqua rugosa				•		•	•		
Underwoodisaurus milii	Barking Gecko			•					
Varanus gouldii	Bungarra or Sand Monitor			•					
Varanus rosenbergi	Heath Monitor			•					

#### A3: Amphibians

Species Name	Common Name	State Listing	Federal Listing	Nature Map	EPBC PMST	Lot 15 2010	BORR 2012	Lot 1 Ducane 2014	Waterloo 2015
Crinia georgiana	Quacking Frog			•					•
Crinia glauerti	Clicking Frog			•			•	•	•
Crinia insignifera	Squelching Froglet			•			•	•	•
Crinia pseudinsignifera	Bleating Froglet			•					
Geocrinia leai	Ticking Frog			•				•	
Heleioporus eyrei	Moaning Frog			•					•
Heleioporus inornatus	Whooping Frog			•					
Limnodynastes dorsalis	Western Banjo Frog			•					•
Litoria adelaidensis	Slender Tree Frog			•			•		•
Litoria moorei	Motorbike Frog			•					•

### NatureMap Database Search Results





Criss geograph	NAME	NAME ID	FAMILY	GENUS	SPECIES	VERNACULAR	KINGDOM	DIVISION	CLASS	ORDER	SUP CODE	SUP NAME
Criss progress										L		Amphibian
Cintal pendingsingfree   2500 Myobstandribles   Cintal   engingrees   2500 Myobstandribles   Cintal   engingrees   Section   Condital   Annahis   Anahis   Anahis   Condital   Annahis   Condital   Annahis   Condital   Annahis   Condital   Annahis   Condital   Annahis   Condital   Cond									<del></del>			Amphibian
Cristal parallel   2-560   Myobatachidase   2-561   Myobatachidase			· · · · · · · · · · · · · · · · · · ·		0				<del></del>			Amphibian
Each												Amphibian
Medicegorus serroratus					·							Amphibian
												Amphibian
Dimodynastes oranis				·					<del></del>			Amphibian
Liboria moderal   25378   Privilidae   Liboria   Defealedemiss   25378   Privilidae   Liboria   Moderal   Motoria   Motoria   Amminista   Oncridat   Amphibia   Aurura   AMPHI   Am Acanthria   Applibia   2,2600   Acanthricade   Acanthrica   applials   2,2600   Acanthricade   Acanthrica   Applials   Acanthricade   Acanthrica   Acanthrica   Applials   Acanthricade   Acanthrica   A				<del></del>								Amphibian
Disorie moores    23588 Prijulidae   Usoria   moores    Motorchiae Frog   Annealia   Chordata   Amphibia   Aurar   AMPH    Annealias   Chordata   Annealias									<u> </u>			Amphibian
Azambisa   24260 Azambisade									<del></del>			Amphibian
Acarthiza chrysorrhoa 24262 Acarthizable Aca									<del> </del>			Bird
Azanthoris normata	· · · · · · · · · · · · · · · · · · ·				•	*						Bird
Azanthorhyschus superciliosus   24550 Meliphagidae   Azanthorhyschus superciliosus   Mestern Spanebill   Alminalia   Chordata   Aves   Falconiformes   BRD   Bir   Azopter fasciatus   2555   Accipitrolae   Accipiter   fasciatus   Brown Goshawk   Alminalia   Chordata   Aves   Falconiformes   BRD   Bir   Accipiter   fasciatus   2575   Spridae   Accipitrolae   Accipiter   fasciatus   Brown Goshawk   Alminalia   Chordata   Aves   Falconiformes   BRD   Bir   Accipitrolae						·						Bird
Accipiter faciatius 2535 Accipitridae Accipiter of scriatus 2536 Accipitridae x 2536 A								4	<u> </u>			Bird
Acceptantes 2555 Accipitridae Accipiter fasciatus Brown Godowaw Parter Fasciatus Anterior Animalia (Drotrata Aves Pascinformes BRD) Bir Acrecephalus sustralis Acrecephalus sustralis Acrecephalus sustralis Acrecephalus Sustralis Australian Render Animalia (Drotrata Aves Pascinformes BRD) Bir Acrecephalus Australian Render Animalia (Drotrata Aves Pascinformes) BRD) Bir Acrecephalus Australian Render Animalia (Drotrata Aves Pascinformes) BRD) Bir Anas castanea Asia (Asia Anas Castanea Animalia Chordata Aves Animalia (Drotrata Aves Animalia Chordata Aves Chardiformes BRD Bir A				<del></del>				4				Bird
Arctist hypoleucos (1432) Scolagoadea (Acttis (hypoleucos) (1432) Anatidea (14												Bird
Actitis hypoleucos (Actitis hypoleucos common Sandper Animalia (Anordata Aves Charadriformes BIRD) Birk Anns castanea (Asta) (Anatidae Anas Castanea (Astanea) (Astaneaa) (Astaneaaa) (Astaneaaa) (Astaneaaa) (Astaneaaa) (Astaneaaa) (Astaneaaaa) (												Bird
Anas graciis 24312 Anatidae Anas graciis 24312 Anatidae Anas graciis 24313 Anatidae Anas graciis 24313 Anatidae Anas phythythobs Anas phythythobs Anas phythythobs Anas phythythobs Anas phythobs Anas phythythobs Anas phythobs												Bird
Anas galaryhyrchos  Anas Janatide  Anas platyhyrchos  Anas Janatide  Anas platyhyrchos  Anas Janatide  Anas Marchottis  Anas Anas Janatide  Anas Marchottis  Anas Anas Janatide  Anas Marchottis  Anas Janatide  Anas Marchottis  Anthothaera Anas Marchottis  Anthothaera Marchottis  A									L	L		Bird
Anas fhytychrofos  24315 Anatidae  Anas phytychos  24315 Anatidae  Anas shytychos  24315 Anatidae  Anas shytychos  24315 Anatidae  Anas shytychos  24316 Anatidae  Anas shytychos  24316 Anatidae  Anas superciliosa  Anous  Lenurostris subsp. melanops  24506 Lairdae  Anous tenurostris subsp. melanops  24506 Indeliphagidae  Anthochaera canculata  Anthochaera in Linulata  24562 Meliphagidae  Anthochaera in Linulata  24562 Meliphagidae  Anthochaera in Linulata  Anthochaera in Linulata  24562 Meliphagidae  Anthochaera in Linulata  Anthochaera  Anthochae									<b></b>			Bird
Ansas superciliosa 24315 Anattalea Anas hynchotis Anas superciliosa 24316 Anattalea Anas superciliosa Anas superciliosa 24316 Anattalea Anas superciliosa An					<u> </u>				<del> </del>			Bird
Anas superciliosa 24316 Anatidae Anas superciliosa Pacific Black Duck Animalia Chordata Aves Ansenformes BIRD Bir Anning anovaehollandiae 47414 Anningábe Anhinga novaehollandiae Australaisa Darter Animalia Chordata Aves Pecanformes BIRD Bir Antochaera canuculata Rathochaera canuculata Rathochaera canuculata Rathochaera Chordata Aves Charadrifformes BIRD Bir Antochaera Laurulata 24551, Meliphagidae Antochaera unulata 24552, Meliphagidae Antochaera unulata 24552 Meliphagidae Antochaera unulata Rathochaera Laurulata Rathochaera R									<del></del>			Bird
Anhinga novaehollandiae 47414 Anhingidae Anbinga novaehollandiae Anous temiuristris subsp. melanops 24506 Liridae Aquila audix 400 Liridae Red Wattlebird Animalia Chordata Ares Passerfformes BIRD Bir Ardea Bis 24508 Acquiridae Aquila audix Western Liride Wattlebird Animalia Chordata Ares Passerfformes BIRD Bir Ardea Bis 25558 Ardeidae Ardea moesta great egret, white egret Animalia Chordata Ares Faconiformes BIRD Bir Ardea movehollandiae Ardea movehollandiae Ardea movehollandiae Valla Ardeidae Ardea pacifica Wither faced Heron Animalia Chordata Ares Ciconiformes BIRD Bir Ardea pacifica Vibra Checked Heron Animalia Chordata Ares Ciconiformes BIRD Bir Ardea pacifica Vibra Checked Heron Animalia Chordata Ares Ciconiformes BIRD Bir Ardea pacifica Vibra Checked Heron Animalia Chordata Ares Ciconiformes BIRD Bir Ardea pacifica Vibra Checked Heron Animalia Chordata Ares Ciconiformes BIRD Bir Ardea pacifica Vibra Checked Heron Animalia Chordata Ares Ciconiformes BIRD Bir Ardea pacifica Vibra Checked Heron Animalia Chordata Ares Ciconiformes BIRD Bir Ardea Aramas Chordata Ares September Vibra Checked Heron Animalia Chordata Ares Ciconiformes BIRD Bir Aramas Chordata Ares September Vibra Checked Animalia Chordata Ares Procellariformes BIRD Bir Aramas Chordata Ares September Vibra Checked Animalia Chordata Ares Charadifformes BIRD Bir Aramas Chordata Ares September Vibra Director Vibra Aramas Chordata Ares Charadifformes BIRD Bir Birura Iobata Bi									<u> </u>			Bird
Annos tenurostris subsp. melanops 24505 [aridae Anthochaera carunculata 24515 [Meliphagidae Anthochaera carunculata 24525 [Meliphagidae Anthochaera carunculata 24285 [Meliphagidae Anthochaera carunculata 24285 [Meliphagidae Anthochaera carunculata Aquila Audax 24285 [Meliphagidae Anthochaera Ardea in Meliphagidae Anthochaera Anthochaera carunculata Aquila Audax 24285 [Meliphagidae Anthochaera An	·											Bird
Anthochaera carunculata				ļ								Bird
Anthochaera Junulata 24562 Meliphagidae Anthochaera Junulata Western Little Wattlebird Animalia Chordata Aves Passerformes BIRD Bir Aguila audax 24285 Accipitridae Aquila audax Wedge-tailed Eagle Animalia Chordata Aves Caconiformes BIRD Bir Ardea nibis 25558 Ardeidae Ardea bis Cattle Egret Animalia Chordata Aves Caconiformes BIRD Bir Ardea nodesta 41324 Ardeidae Ardea modesta great egret, white egret Animalia Chordata Aves Caconiformes BIRD Bir Ardea novaehollandiae 24340 Ardeidae Ardea novaehollandiae Partie Ardea novaehollandiae 24340 Ardeidae Ardea pacifica White-faced Heron Animalia Chordata Aves Caconiformes BIRD Bir Ardea novaehollandiae Ardea novaehollandiae Ardea pacifica White-faced Heron Animalia Chordata Aves Caconiformes BIRD Bir Ardenna carneipes Halfaced Heron Animalia Chordata Aves Caconiformes BIRD Bir Ardenna carneipes Profestoded Shearwater, Fleshy-footed Shearwater, Fleshy-footed Shearwater Animalia Chordata Aves Procellariformes BIRD Bir Ardenna carneipes Profestoded Shearwater, Fleshy-footed Shearwater Animalia Chordata Aves Caconiformes BIRD Bir Aramus carneipes Profestoded Shearwater, Fleshy-footed Shearwater Animalia Chordata Aves Passerformes BIRD Bir Aramus cyanopterus 25756 Aramidae Aramus cincreus Budky Turnstone Animalia Chordata Aves Aves Charadriformes BIRD Bir Aramus cyanopterus 24353 Aramidae Aramus cyanopterus Ousky Woodswallow Animalia Chordata Aves Passerformes BIRD Bir Birura Iobata Arythya australis Arafhead Aramus Chordata Aves Passerformes BIRD Bir Birura Iobata Musk Duck Animalia Chordata Aves Aves Charadriformes BIRD Bir Birura Iobata Musk Duck Animalia Chordata Aves Aves Charadriformes BIRD Bir Birura Iobata Arafhead Animalia Chordata Aves Aves Charadriformes BIRD Bir Birura Iobata Arafhead Animalia Chordata Aves Aves Charadriformes BIRD Bir Birura Iobata Arafhead Animalia Chordata Aves Aves Charadriformes BIRD Bir Birura Iobata Arafhead Animali						·			<del> </del>			Bird
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Cacomantis flabelliformis  25598 Cuculidae  Cacomantis flabelliformis  42307 Cuculidae  Cacomantis pallidus  Ausor Cuculidae  Cacomantis pallidus  Ausor Cuculiformes  BIRD  Bird  Calidris acuminata  24779 Scolopacidae  Calidris  Calidris canutus  Edildris  Canutus  Red Knot, knot  Animalia  Chordata  Aves  Cuculiformes  BIRD  Bird  Calidris canutus  Calidris  Calidris  Calidris  Canutus  Red Knot, knot  Animalia  Chordata  Aves  Charadriiformes  BIRD  Bird  Calidris ferruginea  Calidris ferruginea  Calidris ferruginea  Calidris  C					·						BIRD	Bird
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	Charadrius leschenaultii	25575	Charadriidae	Charadrius	leschenaultii	Greater Sand Plover	Animalia	Chordata	Aves	Charadriiformes	BIRD	Bird
Charadrius ruficapillus 24377 Charadriidae Charadrius ruficapillus Red-capped Plover Animalia Chordata Aves Charadriiformes BIRD Birr	Charadrius ruficapillus	24377	Charadriidae	Charadrius	ruficapillus	Red-capped Plover	Animalia	Chordata	Aves	Charadriiformes	BIRD	Bird
Chenonetta jubata 24321 Anatidae Chenonetta jubata Australian Wood Duck, Wood Duck Animalia Chordata Aves Anseriformes BIRD Birr	Chenonetta jubata	24321	Anatidae	Chenonetta	jubata	Australian Wood Duck, Wood Duck	Animalia	Chordata	Aves	Anseriformes	BIRD	Bird
	Chrysococcyx lucidus	25601	Cuculidae		lucidus	Shining Bronze Cuckoo	Animalia	Chordata	Aves	Cuculiformes	BIRD	Bird
Circus approximans 24288 Accipitridae Circus approximans Swamp Harrier Animalia Chordata Aves Falconiformes BIRD Birr	Circus approximans	24288	Accipitridae	Circus	approximans	Swamp Harrier	Animalia	Chordata	Aves	Falconiformes	BIRD	Bird

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Dromatus (1947)   Custuritidus (1947)   Cu					1							
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Eutrytes chrysocome subsp. filholi         24813 Sphensicides         Eutrytes chrysocome         Rockhopper Perguin         Animalia         Chordsta         Aves         Sphensicformes         BIRD         ord           Falko bergara         25021 Falconidae         Falco         cerchroides         25022 Falconidae         Falco         cerchroides         Animalia         Chordsta         Aves         Sphensicformes         BIRD         Bird           Falco centroides         25023 Falconidae         Falco         cerchroides         Australian Hobby         Animalia         Chordsta         Aves         Falconiformes         BIRD         Bird           Falco centroides         25023 Falconidae         Falco         orgenitive         Palconidae         Falcon         orgenitive         Animalia         Chordsta         Aves         Falconiformes         BIRD         Bird           Falconicare         25024 Falconidae         Falcon         orgenitive         Falcon         Animalia         Chordsta         Aves         Falconiformes         BIRD         Bird           Falcon Long         Falconidae         Falcon         orgenitive         Falconidae         Falconidae         Falconidae         Falconidae         Falconidae         Falconidae         Falconidae         Falconidae	· · · · · · · · · · · · · · · · · · ·										L	
Fished Sepheniscidate   Sudypulus   Onion   Unite Penguin   Animalia   Chordata   Aves   Schemistofformes   BIRD   Bird   Felico berigaro   2521   Falconide   Falco   Cenchrodes   Australian Kestel, Nankeen Kestrel   Animalia   Chordata   Aves   Falconiformes   BIRD   Bird   Felico berigaro   2522   Falconide   Falco   Cenchrodes   Australian Kestel, Nankeen Kestrel   Animalia   Chordata   Aves   Falconiformes   BIRD   Bird   Falco Longenis   2523   Falconide   Falco   Cenchrodes   Australian Kestel, Nankeen Kestrel   Animalia   Chordata   Aves   Falconiformes   BIRD   Bird   Falco Longenis   2523   Falconide   Falco   Onegenis   Australian Kestel, Nankeen Kestrel   Animalia   Chordata   Aves   Falconiformes   BIRD   Bird   Falconiculus frontatis subsp. leucogaster   25272   Fallidae   Falco   Onegenis   Vestern Strikett   Cented Strike-tit   Animalia   Chordata   Aves   Falconiformes   BIRD   Bird   Falconiculus frontatis subsp. leucogaster   25272   Fallidae   Falcon   Animalia   Chordata   Aves   Falconiformes   BIRD   Bird   Falconiculus frontatis subsp. leucogaster   25272   Fallidae   Falcon   Animalia   Chordata   Aves   Falconiformes   BIRD   Bird   Falconiculus frontatis subsp. leucogaster   Animalia   Chordata   Aves   Confidence   Bird   Falconiculus frontatis subsp. leucogaster   Animalia   Chordata   Aves   Confidence   Bird   Falconiculus frontatis subsp. leucogaster   Animalia   Chordata   Aves   Confidence   Bird   Falconiculus frontatis subsp. leucogaster   Animalia   Chordata   Aves   Confidence   Bird   Falconiculus frontatis subsp. leucogaster   Animalia   Chordata   Aves   Confidence   Bird   Falconiculus frontatis subsp. leucogaster   Animalia   Chordata   Aves   Confidence   Bird   Falconiculus frontatis subsp. leucogaster   Animalia   Chordata   Aves   Confidence   Aves   Charadificornes   Bird   Falconiculus frontatis subsp. leucogaster   Animalia   Chordata   Aves   Charadificornes   Bird   Falconiculus frontatis subsp. leucogaster   Animalia   Chordata   Aves   Charadificornes   Bir	, , , , , , , , , , , , , , , , , , , ,								<del>.  </del>			
Falco perignor   25622   Falconidade   Falco   Derignor   Strown Falcon   Animalia   Chordata   Awes   Falconformes   RIFD   Bird   Falco centrologies   25622   Falconidade   Falco   Centrologies   Australian Restate, Mankeen Restret   Animalia   Chordata   Awes   Falconformes   RIFD   Bird   Falcon   Falcon   Centrologies   Australian Restate, Mankeen Restret   Animalia   Chordata   Awes   Falconformes   RIFD   Bird   Falcon   Falcon   Centrologies   RIFD					<del></del>				+	<del></del>		
Falso centroides   2,522   Falsonidae   Falso   centroides   2,522   Falsonidae   Falso   centroides   2,522   Falsonidae   Falso   conjeptinis   2,524   Falsonidae   Falso   conjeptinis   2,522   Falsonidae   Falson   conjeptinis   2,522   Falsonidae   Fa			<del></del>						+			
Falco Indigenents   256.23   Falcoindae   Falco   Ongoenns   Australian Horbby   Animalia   Chordata   Aves   Falcoinformes   BIRD   Bird   Falco peregrinus   256.24   Falcoindae   Falco   Peregrinus   Falcoinculus   Fortatus   Peregrinus   Falcoinculus   Fortatus   Peregrinus   Peregrinu												
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Numenius madagascariensis 24798 Scolopacidae Numenius madagascariensis Eastern Curlew Animalia Chordata Aves Charadriiformes BIRD Bird	Neophema elegans			<del></del>		<u> </u>			4			
	Neophema petrophila	24739	Psittacidae	Neophema	petrophila	Rock Parrot	Animalia	Chordata	Aves	Psittaciformes		
Numenius phaeopus   25742   Scolopacidae   Numenius   phaeopus   Whimbrel   Animalia   Chordata   Aves   Charadriiformes   BIRD   Bird	Numenius madagascariensis	24798	Scolopacidae	Numenius	madagascariensis	Eastern Curlew	Animalia	Chordata	Aves	Charadriiformes	BIRD	Bird
	Numenius phaeopus	25742	Scolopacidae	Numenius	phaeopus	Whimbrel	Animalia	Chordata	Aves	Charadriiformes	BIRD	Bird

NAME	NAME ID	FAMILY	GENUS	SPECIES	VERNACULAR	KINGDOM	DIVISION	CLASS	ORDER	SUP CODE	SUP NAME
Nycticorax caledonicus	<del></del>		Nycticorax	caledonicus	Rufous Night Heron	Animalia	Chordata	Aves	Ciconiiformes	BIRD	Bird
Oceanites oceanicus			Oceanites	oceanicus	Wilson's Storm-petrel	Animalia	Chordata	Aves	Procellariiformes	BIRD	Bird
Ocyphaps lophotes			Ocyphaps	lophotes	Crested Pigeon	Animalia	Chordata	Aves	Columbiformes	BIRD	Bird
Onychoprion anaethetus			Onychoprion	anaethetus	Bridled Tern	Animalia	Chordata	Aves	Charadriiformes	BIRD	Bird
Oxyura australis			Oxyura	australis	Blue-billed Duck	Animalia	Chordata	Aves	Anseriformes	BIRD	Bird
Pachycephala rufiventris			Pachycephala	rufiventris	Rufous Whistler	Animalia	Chordata	Aves	Passeriformes	BIRD	Bird
Pachyptila belcheri		Procellariidae	Pachyptila	belcheri	Slender-billed Prion	Animalia	Chordata	Aves	Procellariiformes	BIRD	Bird
Pachyptila desolata		Procellariidae	Pachyptila	desolata	Antarctic Prion	Animalia	Chordata	Aves	Procellariiformes	BIRD	Bird
Pachyptila salvini			Pachyptila	salvini	Salvin's Prion	Animalia	Chordata	Aves	Procellariiformes	BIRD	Bird
Pandion cristatus		Accipitridae	Pandion	cristatus	Osprey, Eastern Osprey	Animalia	Chordata	Aves	Falconiformes	BIRD	Bird
Pardalotus punctatus		Pardalotidae	Pardalotus	punctatus	Spotted Pardalote	Animalia	Chordata	Aves	Passeriformes	BIRD	Bird
Pardalotus striatus			Pardalotus	striatus	Striated Pardalote	Animalia	Chordata	Aves	Passeriformes	BIRD	Bird
Passer domesticus		Passeridae	Passer	domesticus	House Sparrow	Animalia	Chordata	Aves	Passeriformes	BIRD	Bird
Passer montanus		Passeridae	Passer	montanus	Eurasian Tree Sparrow	Animalia	Chordata	Aves	Passeriformes	BIRD	Bird
Pelecanoides urinatrix subsp. exsul		Pelecanoididae	Pelecanoides	urinatrix	Common Diving Petrel	Animalia	Chordata	Aves	Procellariiformes	BIRD	Bird
Pelecanus conspicillatus		Pelecanidae	Pelecanus	conspicillatus	Australian Pelican	Animalia	Chordata	Aves	Pelecaniformes	BIRD	Bird
Petrochelidon nigricans		Hirundinidae	Petrochelidon	nigricans	Tree Martin	Animalia	Chordata	Aves	Passeriformes	BIRD	Bird
Petroica boodang		Petroicidae	Petroica	boodang	Scarlet Robin	Animalia	Chordata	Aves	Passeriformes	BIRD	Bird
Phalacrocorax carbo			Phalacrocorax	carbo	Great Cormorant	Animalia	Chordata	Aves	Pelecaniformes	BIRD	Bird
Phalacrocorax fuscescens			Phalacrocorax	fuscescens	Black-faced Cormorant	Animalia	Chordata	Aves	Pelecaniformes	BIRD	Bird
Phalacrocorax melanoleucos		Phalacrocoracidae		melanoleucos	Little Pied Cormorant	Animalia	Chordata	Aves	Pelecaniformes	BIRD	Bird
Phalacrocorax sulcirostris			Phalacrocorax	sulcirostris	Little Black Cormorant	Animalia	Chordata	Aves	Pelecaniformes	BIRD	Bird
Phalacrocorax varius			Phalacrocorax	varius	Pied Cormorant	Animalia	Chordata	Aves	Pelecaniformes	BIRD	Bird
Phaps chalcoptera		Columbidae	Phaps	chalcoptera	Common Bronzewing	Animalia	Chordata	Aves	Columbiformes	BIRD	Bird
Phaps elegans		Columbidae	Phaps	elegans	Brush Bronzewing	Animalia	Chordata	Aves	Columbiformes	BIRD	Bird
Phylidonyris niger		Meliphagidae	Phylidonyris	niger	White-cheeked Honeyeater	Animalia	Chordata	Aves	Passeriformes	BIRD	Bird
Phylidonyris novaehollandiae			Phylidonyris	novaehollandiae	New Holland Honeyeater	Animalia	Chordata	Aves	Passeriformes	BIRD	Bird
Platalea flavipes			Platalea	flavipes	Yellow-billed Spoonbill	Animalia	Chordata	Aves	Ciconiiformes	BIRD	Bird
Platalea regia			Platalea	regia	Royal Spoonbill	Animalia	Chordata	Aves	Ciconiiformes	BIRD	Bird
Platycercus icterotis		Psittacidae	Platycercus	icterotis	Western Rosella	Animalia	Chordata	Aves	Psittaciformes	BIRD	Bird
Platycercus spurius		Psittacidae	Platycercus	spurius	Red-capped Parrot	Animalia	Chordata	Aves	Psittaciformes	BIRD	Bird
Platycercus zonarius	<del> </del>	Psittacidae	Platycercus	zonarius	Australian Ringneck, Ring-necked Parrot	Animalia	Chordata	Aves	Psittaciformes	BIRD	Bird
Plegadis falcinellus	<del></del>		Plegadis	falcinellus	Glossy Ibis	Animalia	Chordata	Aves	Ciconiiformes	BIRD	Bird
Pluvialis fulva		Charadriidae	Pluvialis	fulva	Pacific Golden Plover	Animalia	Chordata	Aves	Charadriiformes	BIRD	Bird
Pluvialis squatarola		Charadriidae	Pluvialis	squatarola	Grey Plover	Animalia	Chordata	Aves	Charadriiformes	BIRD	Bird
Podargus strigoides		Podargidae	Podargus	strigoides	Tawny Frogmouth	Animalia	Chordata	Aves	Caprimulgiformes	BIRD	Bird
Podiceps cristatus		<del>-</del>		cristatus	Great Crested Grebe	Animalia	Chordata	Aves	<u> </u>	BIRD	Bird
Poliocephalus poliocephalus		Podicipedidae	Podiceps Poliocephalus	poliocephalus	Hoary-headed Grebe	Animalia	Chordata	Aves	Podicipediformes Podicipediformes	BIRD	Bird
		Psittacidae	Polytelis	·		Animalia	Chordata	Aves	Psittaciformes	BIRD	Bird
Polytelis anthopeplus		Rallidae		anthopeplus	Regent Parrot					BIRD	Bird
Porphyrio porphyrio Porzana fluminea		Rallidae	Porphyrio Porzana	porphyrio fluminea	Purple Swamphen Australian Spotted Crake	Animalia Animalia	Chordata	Aves	Gruiformes Gruiformes	BIRD	Bird
Porzana fluminea Porzana tabuensis		Rallidae	Porzana	tabuensis	Spotless Crake	Animalia	Chordata	Aves	Gruiformes	BIRD	Bird
Psophodes nigrogularis subsp. nigrogularis		Cinclosomatidae	Psophodes		Western Whipbird (western heath)	Animalia Animalia	Chordata	Aves	Passeriformes	BIRD	Bird
Pterodroma brevirostris		Procellariidae	Pterodroma	nigrogularis brevirostris	Kerguelen Petrel	Animalia	Chordata	Aves	Procellariiformes	BIRD	Bird
Pterodroma lessonii	4	Procellariidae	Pterodroma	lessonii	White-headed Petrel	Animalia	Chordata	Aves	Procellariiformes	BIRD	Bird
	<del> </del>						+	<del> </del>	<b></b>		
Pterodroma mollis		Procellariidae	Pterodroma	mollis	Soft-plumaged Petrel	Animalia	Chordata	Aves	Procellariiformes	BIRD	Bird
Puffinus assimilis subsp. assimilis		Procellariidae	Puffinus	assimilis	Little Shearwater	Animalia	Chordata	Aves	Procellariiformes	BIRD	Bird
Recurvirostra novaehollandiae			Recurvirostra	novaehollandiae	Red-necked Avocet	Animalia	Chordata	Aves	Charadriiformes	BIRD	Bird
Rhipidura albiscapa		Dicruridae Dicruridae	Rhipidura	albiscapa	Grey Fantail	Animalia Animalia	Chordata	Aves Aves	Passeriformes Passeriformes	BIRD	Bird
Rhipidura leucophrys			Rhipidura	leucophrys	Willie Wagtail					BIRD	Bird
Rhipidura rufiventris			Rhipidura	rufiventris	Northern Fantail	Animalia	Chordata	Aves	Passeriformes		
Sericornis frontalis			Sericornis	frontalis	White-browed Scrubwren	Animalia	Chordata	Aves	Passeriformes	BIRD	Bird
Smicrornis brevirostris			Smicrornis	brevirostris	Weebill	Animalia	Chordata	Aves	Passeriformes	BIRD	Bird
Sterna bergii		Laridae	Sterna	bergii	Crested Tern	Animalia	Chordata	Aves	Charadriiformes	BIRD	Bird
Sterna hirundo			Sterna	hirundo	Common Tern	Animalia	Chordata	Aves	Charadriiformes	BIRD	Bird
Sternula nereis		Laridae	Sternula	nereis	Fairy Tern	Animalia	Chordata	Aves	Charadriiformes	BIRD	Bird
Stictonetta naevosa			Stictonetta	naevosa	Freckled Duck	Animalia	Chordata	Aves	Anseriformes	BIRD	Bird
Stipiturus malachurus	25655	Maluridae	Stipiturus	malachurus	Southern Emu-wren	Animalia	Chordata	Aves	Passeriformes	BIRD	Bird

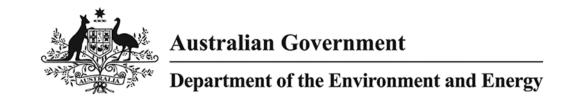
NAME	NAME ID	FAMILY	GENUS	SPECIES	VERNACULAR	KINGDOM	DIVISION	CLASS	ORDER	SUP CODE	SUP NAME
Strepera versicolor	<del></del>	Cracticidae	Strepera	versicolor	Grey Currawong	Animalia	Chordata	Aves	Passeriformes	BIRD	Bird
Streptopelia chinensis		Columbidae	Streptopelia	chinensis	Spotted Turtle-Dove	Animalia	Chordata	Aves	Columbiformes	BIRD	Bird
Streptopelia senegalensis	L	Columbidae	Streptopelia	senegalensis	Laughing Turtle-Dove	Animalia	Chordata	Aves	Columbiformes	BIRD	Bird
Tachybaptus novaehollandiae		Podicipedidae	Tachybaptus	novaehollandiae	Australasian Grebe, Black-throated Grebe	Animalia	Chordata	Aves	Podicipediformes	BIRD	Bird
Tadorna tadornoides		Anatidae	Tadorna	tadornoides	Australian Shelduck, Mountain Duck	Animalia	Chordata	Aves	Anseriformes	BIRD	Bird
Thalassarche carteri		Diomedeidae	Thalassarche	carteri	Indian Yellow-nosed Albatross	Animalia	Chordata	Aves	Procellariiformes	BIRD	Bird
Thalassarche melanophris		Diomedeidae	Thalassarche	melanophris	Black-browed Albatross	Animalia	Chordata	Aves	Procellariiformes	BIRD	Bird
Thalasseus bergii		Laridae	Thalasseus	bergii	Crested Tern	Animalia	Chordata	Aves	Charadriiformes	BIRD	Bird
Thinornis rubricollis		Charadriidae	Thinornis	rubricollis	Hooded Plover, Hooded Dotterel	Animalia	Chordata	Aves	Charadriiformes	BIRD	Bird
Threskiornis spinicollis		Threskiornithidae	Threskiornis	spinicollis	Straw-necked Ibis	Animalia	Chordata	Aves	Ciconiiformes	BIRD	Bird
Todiramphus sanctus		Halcyonidae	Todiramphus	sanctus	Sacred Kingfisher	Animalia	Chordata	Aves	Coraciiformes	BIRD	Bird
Trichoglossus haematodus		Psittacidae	Trichoglossus	haematodus	Rainbow Lorikeet	Animalia	Chordata	Aves	Psittaciformes	BIRD	Bird
Tringa brevipes		Scolopacidae	Tringa	brevipes	Grey-tailed Tattler	Animalia	Chordata	Aves	Charadriiformes	BIRD	Bird
Tringa glareola		Scolopacidae	Tringa	glareola	Wood Sandpiper	Animalia	Chordata	Aves	Charadriiformes	BIRD	Bird
Tringa nebularia		Scolopacidae	Tringa	nebularia	Common Greenshank, greenshank	Animalia	Chordata	Aves	Charadriiformes	BIRD	Bird
Tringa stagnatilis		Scolopacidae	Tringa	stagnatilis	Marsh Sandpiper, little greenshank	Animalia	Chordata	Aves	Charadriiformes	BIRD	Bird
Turnix varius		Turnicidae	Turnix	varius	Painted Button-quail	Animalia	Chordata	Aves	Turniciformes	BIRD	Bird
Tyto alba subsp. delicatula		Tytonidae	Tyto	alba	Barn Owl	Animalia	Chordata	Aves	Strigiformes	BIRD	Bird
Vanellus miles		Charadriidae	Vanellus	miles	Masked Lapwing	Animalia	Chordata	Aves	Charadriiformes	BIRD	Bird
Vanellus tricolor		Charadriidae	Vanellus	tricolor	Banded Lapwing	Animalia	Chordata	Aves	Charadriiformes	BIRD	Bird
Xenus cinereus		Scolopacidae	Xenus	cinereus	Terek Sandpiper	Animalia	Chordata	Aves	Charadriiformes	BIRD	Bird
Zosterops lateralis		Zosteropidae	Zosterops	lateralis	Grey-breasted White-eye, Silvereye	Animalia	Chordata	Aves	Passeriformes	BIRD	Bird
Arctocephalus forsteri		Otariidae	Arctocephalus	forsteri	New Zealand Fur Seal, long-nosed fur-seal	Animalia	Chordata	Mammalia	Carnivora	MAMMAL	Mammal
Arctocephalus tropicalis		Otariidae	Arctocephalus	tropicalis	Subantarctic fur-seal	Animalia	Chordata	Mammalia	Carnivora	MAMMAL	Mammal
Balaenoptera acutorostrata		Balaenopteridae	Balaenoptera	acutorostrata	Dwarf Minke Whale	Animalia	Chordata	Mammalia	Cetacea	MAMMAL	Mammal
Bettongia penicillata subsp. ogilbyi		Potoroidae	Bettongia	penicillata	Woylie, Brush-tailed Bettong	Animalia	Chordata	Mammalia	Diprotodontia	MAMMAL	Mammal
Bos taurus		Bovidae	Bos	taurus	European Cattle	Animalia	Chordata	Mammalia	Artiodactyla	MAMMAL	Mammal
Cercartetus concinnus		Burramyidae	Cercartetus	concinnus	Western Pygmy-possum, Mundarda	Animalia	Chordata	Mammalia	Diprotodontia	MAMMAL	Mammal
Chalinolobus gouldii		Vespertilionidae	Chalinolobus	gouldii	Gould's Wattled Bat	Animalia	Chordata	Mammalia	Chiroptera	MAMMAL	Mammal
Dasyurus geoffroii		Dasyuridae	Dasyurus	geoffroii	Chuditch, Western Quoll	Animalia	Chordata	Mammalia	Dasyuromorphia	MAMMAL	Mammal
Eubalaena australis		Balaenidae	Eubalaena	australis	Southern Right Whale	Animalia	Chordata	Mammalia	Cetacea	MAMMAL	Mammal
Falsistrellus mackenziei		Vespertilionidae	Falsistrellus	mackenziei	Western False Pipistrelle, Western Falsistrelle	Animalia	Chordata	Mammalia	Chiroptera	MAMMAL	Mammal
Felis catus		Felidae	Felis	catus	Cat	Animalia	Chordata	Mammalia	Carnivora	MAMMAL	Mammal
Hydromys chrysogaster	L	Muridae	Hydromys	chrysogaster	Water-rat, Rakali	Animalia	Chordata	Mammalia	Rodentia	MAMMAL	Mammal
Isoodon fusciventer		Peramelidae	Isoodon	fusciventer	Quenda, southwestern brown bandicoot	Animalia	Chordata	Mammalia	Peramelemorphia	MAMMAL	Mammal
Macropus fuliginosus		Macropodidae	Macropus	fuliginosus	Western Grey Kangaroo	Animalia	Chordata	Mammalia	Diprotodontia	MAMMAL	Mammal
Megaptera novaeangliae		Balaenopteridae	Megaptera	novaeangliae	Humpback Whale	Animalia	Chordata	Mammalia	Cetacea	MAMMAL	Mammal
Mesoplodon bowdoini		Ziphiidae	Mesoplodon	bowdoini	Andrew's Beaked Whale	Animalia	Chordata	Mammalia	Cetacea	MAMMAL	Mammal
Mesoplodon grayi		Ziphiidae	Mesoplodon	grayi	Gray's Beaked Whale	Animalia	Chordata	Mammalia	Cetacea	MAMMAL	Mammal
Mirounga leonina		Phocidae	Mirounga	leonina	Southern Elephant Seal	Animalia	Chordata	Mammalia	Carnivora	MAMMAL	Mammal
Mus musculus		Muridae	Mus	musculus	House Mouse	Animalia	Chordata	Mammalia	Rodentia	MAMMAL	Mammal
Myrmecobius fasciatus		Myrmecobiidae	Myrmecobius	fasciatus	Numbat, Walpurti	Animalia	Chordata	Mammalia	Dasyuromorphia	MAMMAL	Mammal
Neophoca cinerea		Otariidae	Neophoca	cinerea	Australian Sea-lion	Animalia	Chordata	Mammalia	Carnivora	MAMMAL	Mammal
Notamacropus irma	L	Macropodidae	Notamacropus	irma	Western Brush Wallaby	Animalia	Chordata	Mammalia	Diprotodontia	MAMMAL	Mammal
Nyctophilus geoffroyi		Vespertilionidae	Nyctophilus	geoffroyi	Lesser Long-eared Bat	Animalia	Chordata	Mammalia	Chiroptera	MAMMAL	Mammal
Nyctophilus georroyi Nyctophilus gouldi		Vespertilionidae	Nyctophilus	gouldi	Gould's Long-eared Bat	Animalia	Chordata	Mammalia	Chiroptera	MAMMAL	Mammal
Oryctolagus cuniculus		Leporidae	Oryctolagus	cuniculus	Rabbit	Animalia	Chordata	Mammalia	Lagomorpha	MAMMAL	Mammal
Phascogale tapoatafa		Dasyuridae	Phascogale	tapoatafa	Brush-tailed Phascogale	Animalia	Chordata	Mammalia	Dasyuromorphia	MAMMAL	Mammal
Phascogale tapoatafa subsp. wambenger		Dasyuridae	Phascogale	tapoatafa	South-western Brush-tailed Phascogale, Wambenger	Animalia	Chordata	Mammalia	Dasyuromorphia	MAMMAL	Mammal
Pseudocheirus occidentalis		Pseudocheiridae	Pseudocheirus	occidentalis	Western Ringtail Possum, ngwayir	Animalia	Chordata	Mammalia	Diprotodontia	MAMMAL	Mammal
Rattus fuscipes		Muridae	Rattus	fuscipes	Western Bush Rat	Animalia	Chordata	Mammalia	Rodentia	MAMMAL	Mammal
	<b></b>	Muridae	Rattus	rattus	Black Rat	Animalia	Chordata	Mammalia	Rodentia	MAMMAL	Mammal
Rattus rattus		Macropodidae			Quokka	Animalia	Chordata	Mammalia	Diprotodontia	MAMMAL	Mammal
Setonix brachyurus Stenella coeruleoalba			Setonix Stenella	brachyurus		Animalia		Mammalia	<del></del>		Mammal
Stenella coeruleoalba Sus scrofa		Delphinidae Suidae	Sus	coeruleoalba scrofa	Striped Dophin	Animalia	Chordata	Mammalia	Cetacea	MAMMAL	Mammal
					Pig Common Brushtail Possum	Animalia	Chordata	Mammalia	Artiodactyla		Mammal
Trichosurus vulpecula		Phalangeridae	Trichosurus	vulpecula aduncus	Indo-Pacific Bottlenose Dolphin	Animalia	Chordata	Mammalia	Diprotodontia Cetacea	MAMMAL	Mammal
Tursiops aduncus		Delphinidae	Tursiops					4			
Tursiops truncatus	24069	Delphinidae	Tursiops	truncatus	Bottlenose Dolphin	Animalia	Chordata	Mammalia	Letacea	MAMMAL	Mammal

NAME	NAME ID	FAMILY	GENUS	SPECIES	VERNACULAR	KINGDOM	DIVISION	CLASS	ORDER	SUP CODE	SUP NAME
Vespadelus regulus	24206	Vespertilionidae	Vespadelus	regulus	Southern Forest Bat	Animalia	Chordata	Mammalia	Chiroptera	MAMMAL	Mammal
Vulpes vulpes	24040	Canidae	Vulpes	vulpes	Red Fox	Animalia	Chordata	Mammalia	Carnivora	MAMMAL	Mammal
Acritoscincus trilineatus	42368	Scincidae	Acritoscincus	trilineatus	Western Three-lined Skink	Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Caretta caretta	25335	Cheloniidae	Caretta	caretta	Loggerhead Turtle	Animalia	Chordata	Reptilia	Testudines	REPTILE	Reptile
Chelodina colliei	43380	Cheluidae	Chelodina	colliei	South-western Snake-necked Turtle	Animalia	Chordata	Reptilia	Testudines	REPTILE	Reptile
Christinus marmoratus	24980	Gekkonidae	Christinus	marmoratus	Marbled Gecko	Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Cryptoblepharus buchananii		Scincidae	Cryptoblepharus	buchananii		Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Ctenotus australis	25027	Scincidae	Ctenotus	australis		Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Ctenotus fallens	25039	Scincidae	Ctenotus	fallens		Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Ctenotus impar	25047	Scincidae	Ctenotus	impar		Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Ctenotus labillardieri	25049	Scincidae	Ctenotus	labillardieri		Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Ctenotus ora	41641	Scincidae	Ctenotus	ora	Coastal Plains Skink	Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Echiopsis curta	25251	Elapidae	Echiopsis	curta	Bardick	Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Egernia kingii	25096	Scincidae	Egernia	kingii	King's Skink	Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Egernia napoleonis	25100	Scincidae	Egernia	napoleonis		Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Elapognathus coronatus	25250	Elapidae	Elapognathus	coronatus	Crowned Snake	Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Hemiergis gracilipes	30919	Scincidae	Hemiergis	gracilipes	skink	Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Hemiergis quadrilineata	25119	Scincidae	Hemiergis	quadrilineata		Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Hydrophis platurus	43384	Elapidae	Hydrophis	platurus	Yellow-bellied Seasnake	Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Lerista distinguenda	25131	Scincidae		distinguenda		Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Lerista elegans	25133	Scincidae	Lerista	elegans		Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Lialis burtonis	25005	Pygopodidae	Lialis	burtonis		Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Lissolepis luctuosa	42413	Scincidae	Lissolepis	luctuosa	Western Swamp Skink	Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Menetia greyii	25184	Scincidae	Menetia	greyii		Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Morelia spilota subsp. imbricata	25240	Boidae	Morelia	spilota	Carpet Python	Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Morethia lineoocellata	25191	Scincidae	Morethia	lineoocellata		Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Natator depressus	25344	Cheloniidae	Natator	depressus	Flatback Turtle	Animalia	Chordata	Reptilia	Testudines	REPTILE	Reptile
Neelaps bimaculatus	25248	Elapidae	Neelaps	bimaculatus	Black-naped Snake	Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Notechis scutatus	25252	Elapidae	Notechis	scutatus	Tiger Snake	Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Parasuta gouldii	25253	Elapidae	Parasuta	gouldii		Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Pogona minor	25510	Agamidae		minor	Dwarf Bearded Dragon	Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Pseudonaja affinis		Elapidae	Pseudonaja	affinis	Dugite	Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Simoselaps bertholdi	25266	Elapidae	Simoselaps	bertholdi	Jan's Banded Snake	Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Tiliqua rugosa	25519	Scincidae	Tiliqua	rugosa		Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Tiliqua rugosa subsp. rugosa	25207	Scincidae	Tiliqua	rugosa		Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Underwoodisaurus milii	24983	Gekkonidae	Underwoodisaurus	milii	Barking Gecko	Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Varanus gouldii	25218	Varanidae	Varanus	gouldii	Bungarra or Sand Monitor	Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Varanus rosenbergi	25225	Varanidae	Varanus	rosenbergi	Heath Monitor	Animalia	Chordata	Reptilia	Squamata	REPTILE	Reptile
Eolophus roseicapillus		Cacatuidae	Eolophus	roseicapillus		Animalia				BIRD	Bird

### EPBC Act Protected Matters Search Tool 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 <u>Environment Assessments</u> and the EPBC Act including significance guidelines, forms and application process details.

Report created: 25/10/18 18:48:25

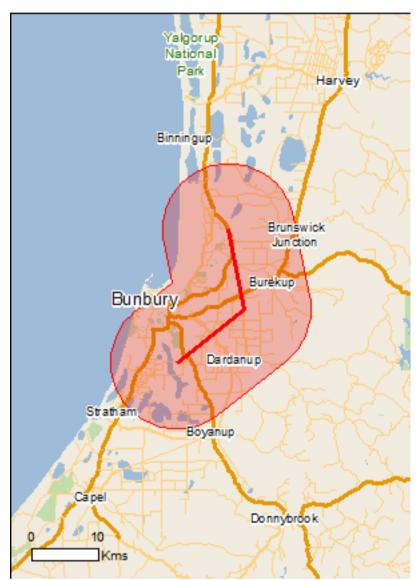
**Summary** 

**Details** 

Matters of NES
Other Matters Protected by the EPBC Act
Extra Information

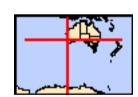
Caveat

**Acknowledgements** 



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

Coordinates
Buffer: 10.0Km



### Summary

#### Matters of National Environmental Significance

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

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	1
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	4
Listed Threatened Species:	69
Listed Migratory Species:	43

#### Other Matters Protected by the EPBC Act

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

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

A <u>permit</u> may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Land:	2
Commonwealth Heritage Places:	None
Listed Marine Species:	69
Whales and Other Cetaceans:	13
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None

#### **Extra Information**

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

State and Territory Reserves:	9
Regional Forest Agreements:	1
Invasive Species:	29
Nationally Important Wetlands:	None
Key Ecological Features (Marine)	None

# **Details**

# Matters of National Environmental Significance

Wetlands of International Importance (Ramsar)	[ Resource Information ]	
Name	Proximity	
Peel-yalgorup system	Within 10km of Ramsar	

Lists of Thursday and Esplantial Communities		[ December Information 1
Listed Threatened Ecological Communities		[ Resource Information ]
For threatened ecological communities where the distriplans, State vegetation maps, remote sensing imagery community distributions are less well known, existing vegetation maps.	and other sources. Where	threatened ecological
Name	Status	Type of Presence
Banksia Woodlands of the Swan Coastal Plain ecological community Clay Pans of the Swan Coastal Plain	Endangered Critically Endangered	Community likely to occur within area Community likely to occur
Olay I alis of the Swall Coastai I faili	Officially Efficiency	within area
Corymbia calophylla - Xanthorrhoea preissii woodlands and shrublands of the Swan Coastal Plain	Endangered	Community known to occur within area
Subtropical and Temperate Coastal Saltmarsh	Vulnerable	Community likely to occur within area
Listed Threatened Species		[ Resource Information ]
Name	Status	Type of Presence
Birds		
Anous tenuirostris melanops		
Australian Lesser Noddy [26000]	Vulnerable	Species or species habitat may occur within area
Botaurus poiciloptilus		
Australasian Bittern [1001]	Endangered	Species or species habitat known to occur within area
Calidris canutus		
Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calyptorhynchus banksii naso Forest Red-tailed Black-Cockatoo, Karrak [67034]	Vulnerable	Species or species habitat known to occur within area
		Milowii to ooddi Witiiii arda
Calyptorhynchus baudinii Baudin's Cockatoo, Long-billed Black-Cockatoo [769]	Endangered	Breeding known to occur within area
Calyptorhynchus latirostris		Within area
Carnaby's Cockatoo, Short-billed Black-Cockatoo [59523]	Endangered	Species or species habitat known to occur within area
Diomedea amsterdamensis		
Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area
<u>Diomedea dabbenena</u>		
Tristan Albatross [66471]	Endangered	Species or species habitat may occur within

Name	Status	Type of Presence
Diomedea epomophora		area
Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Halobaena caerulea Blue Petrel [1059]	Vulnerable	Species or species habitat may occur within area
Leipoa ocellata Malleefowl [934]	Vulnerable	Species or species habitat likely to occur within area
Limosa lapponica baueri Bar-tailed Godwit (baueri), Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat likely to occur within area
<u>Limosa lapponica menzbieri</u> Northern Siberian Bar-tailed Godwit, Bar-tailed Godwit (menzbieri) [86432]	Critically Endangered	Species or species habitat may occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pachyptila turtur subantarctica Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat likely to occur within area
Phoebetria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat may occur within area
Pterodroma mollis Soft-plumaged Petrel [1036]	Vulnerable	Species or species habitat may occur within area
Rostratula australis Australian Painted-snipe, Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area
Sternula nereis nereis Australian Fairy Tern [82950]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Foraging, feeding or related behaviour may occur within area
Thalassarche cauta cauta Shy Albatross, Tasmanian Shy Albatross [82345]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Thalassarche cauta steadi White-capped Albatross [82344]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area

Name	Status	Type of Presence
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
Fish		
Galaxiella nigrostriata Blackstriped Dwarf Galaxias, Black-stripe Minnow [88677]	Endangered	Species or species habitat likely to occur within area
Nannatherina balstoni Balston's Pygmy Perch [66698]	Vulnerable	Species or species habitat likely to occur within area
Mammals		
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Bettongia penicillata ogilbyi Woylie [66844]	Endangered	Species or species habitat may occur within area
Dasyurus geoffroii Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat known to occur within area
Eubalaena australis Southern Right Whale [40]	Endangered	Breeding known to occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Congregation or aggregation known to occur within area
Neophoca cinerea Australian Sea-lion, Australian Sea Lion [22]	Vulnerable	Species or species habitat may occur within area
Pseudocheirus occidentalis Western Ringtail Possum, Ngwayir, Womp, Woder, Ngoor, Ngoolangit [25911] Setonix brachyurus	Critically Endangered	Breeding known to occur within area
Quokka [229]	Vulnerable	Species or species habitat known to occur within area
Other		
Westralunio carteri Carter's Freshwater Mussel, Freshwater Mussel [86266]	Vulnerable	Species or species habitat known to occur within area
Plants		
Andersonia gracilis Slender Andersonia [14470]	Endangered	Species or species habitat may occur within area
Austrostipa bronwenae [87808]	Endangered	Species or species habitat known to occur within area
Austrostipa jacobsiana [87809]	Critically Endangered	Species or species habitat known to occur within area
Banksia nivea subsp. uliginosa Swamp Honeypot [82766]	Endangered	Species or species habitat may occur within area
Banksia squarrosa subsp. argillacea Whicher Range Dryandra [82769]	Vulnerable	Species or species habitat may occur within

Name	Status	Type of Presence
		area
Brachyscias verecundus Ironstone Brachyscias [81321]	Critically Endangered	Species or species habitat may occur within area
Caladenia huegelii King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid [7309]	Endangered	Species or species habitat known to occur within area
Caladenia procera Carbunup King Spider Orchid [68679]	Critically Endangered	Species or species habitat may occur within area
Chamelaucium sp. S coastal plain (R.D.Royce 4872) Royce's Waxflower [87814]	Vulnerable	Species or species habitat may occur within area
<u>Diuris drummondii</u> Tall Donkey Orchid [4365]	Vulnerable	Species or species habitat likely to occur within area
<u>Diuris micrantha</u> Dwarf Bee-orchid [55082]	Vulnerable	Species or species habitat known to occur within area
<u>Diuris purdiei</u> Purdie's Donkey-orchid [12950]	Endangered	Species or species habitat likely to occur within area
Drakaea elastica Glossy-leafed Hammer Orchid, Glossy-leaved Hammer Orchid, Warty Hammer Orchid [16753]	Endangered	Species or species habitat known to occur within area
Drakaea micrantha  Dwarf Hammer-orchid [56755]	Vulnerable	Species or species habitat known to occur within area
Eleocharis keigheryi Keighery's Eleocharis [64893]	Vulnerable	Species or species habitat known to occur within area
Gastrolobium papilio Butterfly-leaved Gastrolobium [78415]	Endangered	Species or species habitat may occur within area
Lambertia echinata subsp. occidentalis Western Prickly Honeysuckle [64528]	Endangered	Species or species habitat may occur within area
Petrophile latericola Laterite Petrophile [64532]	Endangered	Species or species habitat may occur within area
Synaphea sp. Fairbridge Farm (D. Papenfus 696) Selena's Synaphea [82881]	Critically Endangered	Species or species habitat known to occur within area
Synaphea sp. Serpentine (G.R. Brand 103) [86879]	Critically Endangered	Species or species habitat may occur within area
Synaphea stenoloba  Dwellingup Synaphea [66311]	Endangered	Species or species habitat likely to occur within area
Verticordia densiflora var. pedunculata Long-stalked Featherflower [55689]	Endangered	Species or species habitat may occur within area
Reptiles		
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known

Name	Status	Type of Presence
	J.33.5	to occur within area
Chelonia mydas		
Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Sharks		William Group
Carcharias taurus (west coast population) Grey Nurse Shark (west coast population) [68752]	Vulnerable	Species or species habitat known to occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Listed Migratory Species		[ Resource Information ]
* Species is listed under a different scientific name on	the EPBC Act - Threatened	l Species list.
Name	Threatened	Type of Presence
Migratory Marine Birds		
Anous stolidus		
Common Noddy [825]		Species or species habitat may occur within area
Apus pacificus		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardenna carneipes		
Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Species or species habitat likely to occur within area
<u>Diomedea amsterdamensis</u>		
Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area
<u>Diomedea dabbenena</u>		
Tristan Albatross [66471]	Endangered	Species or species habitat may occur within area
<u>Diomedea epomophora</u>		
Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur
		within area
Diomedea sanfordi		Fanantas (c. 1
Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Hydroprogne caspia Caspian Tern [808]		Foraging, feeding or related behaviour known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Macronectes halli		
Northern Giant Petrel [1061]	Vulnerable	Species or species

Name	Threatened	Type of Presence
		habitat may occur within area
Onychoprion anaethetus		
Bridled Tern [82845]		Foraging, feeding or related behaviour likely to occur within area
Phoebetria fusca		
Sooty Albatross [1075]	Vulnerable	Species or species habitat may occur within area
Thalassarche carteri		
Indian Yellow-nosed Albatross [64464]	Vulnerable	Foraging, feeding or related behaviour may occur within area
Thalassarche cauta Tasmanian Shy Albatross [89224]	Vulnerable*	Foraging, feeding or related
	vuirierable	behaviour likely to occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross	Vulnorablo	Species or species habitat
[64459]	vuirierable	Species or species habitat may occur within area
Thalassarche melanophris		
Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
Thalassarche steadi		
White-capped Albatross [64462]	Vulnerable*	Foraging, feeding or related behaviour likely to occur within area
Migratory Marine Species		
Balaena glacialis australis Southern Right Whale [75529]	Endangered*	Breeding known to occur within area
Balaenoptera edeni		
Bryde's Whale [35]		Species or species habitat may occur within area
Balaenoptera musculus		
Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Caperea marginata		
Pygmy Right Whale [39]		Species or species habitat may occur within area
Carcharodon carcharias		
White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area
Caretta caretta		
Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas  Groop Turtlo [1765]	Vulnoroblo	Forgaina fooding or roleted
Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<u>Dermochelys coriacea</u> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
Lagenorhynchus obscurus  Dusky Dolphin [43]		Species or species habitat may occur within area
Manta alfredi		
Reef Manta Ray, Coastal Manta Ray, Inshore Manta Ray, Prince Alfred's Ray, Resident Manta Ray [84994]		Species or species habitat may occur within area
Manta birostris		
Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Congregation or aggregation known to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Migratory Terrestrial Species		
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
<u>Limosa lapponica</u> Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pandion haliaetus Osprey [952]		Breeding known to occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

### Other Matters Protected by the EPBC Act

### Commonwealth Land [ Resource Information ] The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.

N	lar	n	e
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Diomedea epomophora

Southern Royal Albatross [89221]

Commonwealth Land - Defence - BUNBURY TRAINING DEPOT		
Listed Marine Species		[ Resource Information ]
* Species is listed under a different scientific name	on the EPBC Act - Threater	ned Species list.
Name	Threatened	Type of Presence
Birds		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area
Anous stolidus Common Noddy [825]		Species or species habitat may occur within area
Anous tenuirostris melanops Australian Lesser Noddy [26000]	Vulnerable	Species or species habitat may occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea alba Great Egret, White Egret [59541]		Breeding known to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Catharacta skua Great Skua [59472]		Species or species habitat may occur within area
<u>Diomedea amsterdamensis</u> Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area
<u>Diomedea dabbenena</u> Tristan Albatross [66471]	Endangered	Species or species habitat may occur within area

Vulnerable

Foraging, feeding or related

behaviour likely to occur

within area

Name	Threatened	Type of Presence
Diomedea exulans Wandering Albatross [89223]  Diomedea sanfordi	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
Halobaena caerulea Blue Petrel [1059]	Vulnerable	Species or species habitat may occur within area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pachyptila turtur Fairy Prion [1066]		Species or species habitat likely to occur within area
Pandion haliaetus		
Osprey [952]		Breeding known to occur within area
Phoebetria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat may occur within area
Pterodroma mollis Soft-plumaged Petrel [1036]	Vulnerable	Species or species habitat may occur within area
Puffinus assimilis Little Shearwater [59363]		Foraging, feeding or related behaviour known to occur within area
Puffinus carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [1043]		Species or species habitat likely to occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat may occur within area
Sterna anaethetus Bridled Tern [814]		Foraging, feeding or related behaviour likely to occur within area
Sterna caspia Caspian Tern [59467]		Foraging, feeding or

Nama	Throatonad	Type of Presence
Name	Threatened	Type of Presence related behaviour known to
<del></del>		occur within area
Thalassarche carteri		
Indian Yellow-nosed Albatross [64464]	Vulnerable	Foraging, feeding or related behaviour may occur within area
Thalassarche cauta		
Tasmanian Shy Albatross [89224]	Vulnerable*	Foraging, feeding or related behaviour likely to occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Thalassarche melanophris		
Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
Thalassarche steadi		
White-capped Albatross [64462]	Vulnerable*	Foraging, feeding or related behaviour likely to occur within area
Thinornis rubricollis		
Hooded Plover [59510]		Species or species habitat known to occur within area
Tringa nebularia		
Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area
Fish		
Acentronura australe		Charies ar angeine hebitat
Southern Pygmy Pipehorse [66185]		Species or species habitat may occur within area
Campichthys galei		
Gale's Pipefish [66191]		Species or species habitat may occur within area
Heraldia nocturna		
Upside-down Pipefish, Eastern Upside-down Pipefish, Eastern Upside-down Pipefish [66227]		Species or species habitat may occur within area
Hippocampus angustus		
Western Spiny Seahorse, Narrow-bellied Seahorse		Species or species habitat
[66234]		may occur within area
<u>Hippocampus breviceps</u>		
Short-head Seahorse, Short-snouted Seahorse [66235]		Species or species habitat may occur within area
Hippocampus subelongatus		
West Australian Seahorse [66722]		Species or species habitat may occur within area
Histiogamphelus cristatus		
Rhino Pipefish, Macleay's Crested Pipefish, Ring-back Pipefish [66243]		Species or species habitat may occur within area
Lissocampus caudalis		_
Australian Smooth Pipefish, Smooth Pipefish [66249]		Species or species habitat may occur within area
<u>Lissocampus fatiloquus</u>		
Prophet's Pipefish [66250]		Species or species habitat may occur within area
<u>Lissocampus runa</u>		
Javelin Pipefish [66251]		Species or species habitat may occur within area
Maroubra perserrata		
Sawtooth Pipefish [66252]		Species or species

Name	Threatened	Type of Presence
		habitat may occur within
Mitotichthys meraculus		area
Western Crested Pipefish [66259]		Species or species habitat
		may occur within area
Nannocampus subosseus		
Bonyhead Pipefish, Bony-headed Pipefish [66264]		Species or species habitat
		may occur within area
Phycodurus eques		
Leafy Seadragon [66267]		Species or species habitat
		may occur within area
Phyllopteryx taeniolatus		
Common Seadragon, Weedy Seadragon [66268]		Species or species habitat
		may occur within area
Pugnaso curtirostris		
Pugnose Pipefish, Pug-nosed Pipefish [66269]		Species or species habitat
		may occur within area
Solegnathus lettiensis		
Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat
		may occur within area
Stigmatopora argus		
Spotted Pipefish, Gulf Pipefish, Peacock Pipefish		Species or species habitat
[66276]		may occur within area
Stigmatopora nigra		
Widebody Pipefish, Wide-bodied Pipefish, Black		Species or species habitat
Pipefish [66277]		may occur within area
<u>Urocampus carinirostris</u>		
Hairy Pipefish [66282]		Species or species habitat may occur within area
		may occur within area
Vanacampus margaritifer		
Mother-of-pearl Pipefish [66283]		Species or species habitat may occur within area
		may occar mammarca
Vanacampus phillipi  Port Phillip Pinofish (66294)		Chasias ar anasias habitat
Port Phillip Pipefish [66284]		Species or species habitat may occur within area
		•
Vanacampus poecilolaemus  Longsnout Pipefish, Australian Long-snout Pipefish,		Species or species habitat
Long-snouted Pipefish [66285]		may occur within area
Mammala		
Mammals <u>Arctocephalus forsteri</u>		
Long-nosed Fur-seal, New Zealand Fur-seal [20]		Species or species habitat
		may occur within area
Neophoca cinerea		
Australian Sea-lion, Australian Sea Lion [22]	Vulnerable	Species or species habitat
		may occur within area
Reptiles		
Caretta caretta		
Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur
		within area
Chelonia mydas Croop Turtle (1765)	Vi dagadala	Coronina for diameter and the le
Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur
		within area
Dermochelys coriacea	Endoneses	Drooding likely to a serve
Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
Natator depressus		
Flatback Turtle [59257]	Vulnerable	Foraging, feeding or

Name	Threatened	Type of Presence
		related behaviour known to occur within area
Whales and other Cetaceans		[ Resource Information ]
Name	Status	Type of Presence
Mammals		
Balaenoptera acutorostrata  Minke Whale [33]		Species or species habitat may occur within area
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Caperea marginata Pygmy Right Whale [39]		Species or species habitat may occur within area
Delphinus delphis Common Dophin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
Eubalaena australis		
Southern Right Whale [40]	Endangered	Breeding known to occur within area
Grampus griseus Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area
<u>Lagenorhynchus obscurus</u> Dusky Dolphin [43]		Species or species habitat may occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Congregation or aggregation known to occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area
Stenella attenuata Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area
Tursiops aduncus Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area
Tursiops truncatus s. str. Bottlenose Dolphin [68417]		Species or species habitat may occur within area

#### **Extra Information**

Oryctolagus cuniculus

Rabbit, European Rabbit [128]

State
WA

### Regional Forest Agreements [Resource Information]

Note that all areas with completed RFAs have been included.

Name State

South West WA RFA Western Australia

### Invasive Species [Resource Information]

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

Name	Status	Type of Presence
Birds		
Anas platyrhynchos		
Mallard [974]		Species or species habitat likely to occur within area
Columba livia		
Rock Pigeon, Rock Dove, Domestic Pigeon [80	3]	Species or species habitat likely to occur within area
Passer domesticus		
House Sparrow [405]		Species or species habitat likely to occur within area
Passer montanus		
Eurasian Tree Sparrow [406]		Species or species habitat likely to occur within area
Streptopelia chinensis		
Spotted Turtle-Dove [780]		Species or species habitat likely to occur within area
Streptopelia senegalensis		
Laughing Turtle-dove, Laughing Dove [781]		Species or species habitat likely to occur within area
Mammals		
Canis lupus familiaris		
Domestic Dog [82654]		Species or species habitat likely to occur within area
Felis catus		
Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Feral deer		
Feral deer species in Australia [85733]		Species or species habitat likely to occur within area
Mus musculus		
House Mouse [120]		Species or species habitat likely to occur within area

Species or species habitat

likely to occur

Name	Status	Type of Presence
		within area
Rattus rattus Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
Sus scrofa Pig [6]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Anredera cordifolia Madeira Vine, Jalap, Lamb's-tail, Mignonette Vine, Anredera, Gulf Madeiravine, Heartleaf Madeiravine, Potato Vine [2643] Asparagus asparagoides Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's		Species or species habitat likely to occur within area  Species or species habitat
Smilax, Smilax Asparagus [22473]		likely to occur within area
Asparagus declinatus Bridal Veil, Bridal Veil Creeper, Pale Berry Asparagus Fern, Asparagus Fern, South African Creeper [66908]		Species or species habitat likely to occur within area
Asparagus plumosus Climbing Asparagus-fern [48993]		Species or species habitat likely to occur within area
Brachiaria mutica Para Grass [5879]		Species or species habitat may occur within area
Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]		Species or species habitat may occur within area
Chrysanthemoides monilifera Bitou Bush, Boneseed [18983]		Species or species habitat may occur within area
Genista linifolia Flax-leaved Broom, Mediterranean Broom, Flax Broon [2800]	n	Species or species habitat likely to occur within area
Genista sp. X Genista monspessulana Broom [67538]		Species or species habitat may occur within area
Lycium ferocissimum African Boxthorn, Boxthorn [19235]		Species or species habitat likely to occur within area
Olea europaea Olive, Common Olive [9160]		Species or species habitat may occur within area
Pinus radiata Radiata Pine Monterey Pine, Insignis Pine, Wilding Pine [20780]		Species or species habitat may occur within area
Rubus fruticosus aggregate Blackberry, European Blackberry [68406]		Species or species habitat likely to occur within area
Salix spp. except S.babylonica, S.x calodendron & S.x Willows except Weeping Willow, Pussy Willow and Sterile Pussy Willow [68497]	reichardtii	Species or species habitat likely to occur within area
Solanum elaeagnifolium Silver Nightshade, Silver-leaved Nightshade, White Horse Nettle, Silver-leaf Nightshade,		Species or species habitat likely to occur

Name Status Type of Presence Tomato Weed, White Nightshade, Bull-nettle, Prairie- within area

Tomato Weed, White Nightshade, Bull-nettle, Prairieberry, Satansbos, Silver-leaf Bitter-apple, Silverleafnettle, Trompillo [12323]

#### 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 gualifications 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

 $\hbox{-}33.25222\ 115.74889, \hbox{-}33.34194\ 115.77056, \hbox{-}33.4025\ 115.67861$ 

### 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.

### DoEE 2017 Foraging Habitat Scoring Tool







Table 3: Foraging habitat scoring tool

Starting Score	Foraging habitat for Carnaby's Cockatoo	Foraging habitat for Baudin's Cockatoo	Foraging habitat for Forest Red-tailed Black cockatoo
10 (Very high	Foraging habitat that is being managed for black	Foraging habitat that is being managed for black	Foraging habitat that is being managed for black
quality)	cockatoos such as habitat that is the focus of	cockatoos such as habitat that is the focus of,	cockatoos such as habitat that is the focus of successful
	successful <b>rehabilitation</b> , and/or has some level of	successful <b>rehabilitation</b> , and/or has some level	rehabilitation, and/or has some level of protection from
	protection from clearing, and/or is quality habitat	of <b>protection</b> from clearing, and/or is quality	clearing, and/or is quality habitat described below with
	described below with attributes contributing to meet	habitat described below with attributes contributing	attributes contributing to meet a sore of ≥10.
	a sore of ≥10.	to meet a sore of ≥10.	
7 (High quality)	Native shrubland, kwongan heathland and	Native eucalypt woodlands and forest, and	Jarrah and marri woodlands and forest, and edges of
	woodland dominated by proteaceous plant species	proteaceous woodland and heath, particularly	karri forests, including wandoo and blackbutt, within the
	such as Banksia spp. (including Dryandra spp.),	marri, including along roadsides. Does not include	range of the subspecies, including along roadsides. Does
	Hakea spp. and Grevillea spp., as well as native	orchards or areas under a RFA.	not include areas under a RFA.
	eucalypt woodland and forest that contains foraging		
	species, including along roadsides. Does not		
F (Overlite)	include orchards, canola, or areas under a RFA.	Disconlantation without and accordant	Lating divising a superbooks as small as the status divisind Open Hills
5 (Quality)	Pine plantation or introduced eucalypts.	Pine plantation or introduced eucalypts.	Introduced eucalypts as well as the introduced Cape lilac (Melia azedarach).
1 (Low quality)	Individual foraging plants or small stand of foraging	Individual foraging plants or small stand of	Individual foraging plants or small stand of foraging
	plants.	foraging plants.	plants.
Additions	Context adjustor - attributes improving	Context adjustor - attributes improving	Context adjustor - attributes improving functionality
	functionality of foraging habitat	functionality of foraging habitat	of foraging habitat
+3	Is within the Swan Coastal Plain (important foraging area).	Is within the known foraging area (see map).	Jarrah and/or marri show good recruitment (i.e. evidence of young trees).
+3	Contains trees with suitable nest hollows.	Contains trees with suitable nest hollows.	Contains trees with suitable nest hollows.
+2	Primarily comprises marri.	Primarily contains marri.	Primarily contains marri and/or jarrah.
+2	Contains trees with potential to be used for breeding	Contains trees with potential to be used for	Contains trees with potential to be used for breeding (dbh
	(dbh ≥ 500 mm or ≥ 300 mm dbh for salmon gum	breeding (dbh ≥ 500 mm or ≥ 300 mm dbh for	≥ 500 mm or ≥ 300 mm dbh for salmon gum and
	and wandoo).	salmon gum and wandoo).	wandoo).
+1	Is known to be a roosting site.	Is known to be a roosting site.	Is known to be a roosting site.
Subtractions	Context adjustor - attributes reducing	Context adjustor - attributes reducing	Context adjustor - attributes reducing functionality of
	functionality of foraging habitat	functionality of foraging habitat	foraging habitat quality
-2	No clear evidence of feeding debris.	No clear evidence of feeding debris.	No clear evidence of feeding debris.
-2	No other foraging habitat within 6 km.	No other foraging habitat within 6 km.	No other foraging habitat within 6 km.
-1	Is > 12 km from a known breeding location.	Is > 12 km from a known breeding location.	Is > 12 km from a known breeding location.
-1	Is > 12 km from a known roosting site.	Is > 12 km from a known roosting site.	Is > 12 km from a known roosting site.
-1	Is > 2 km from a watering point.	Is > 2 km from a watering point.	Is > 2 km from a watering point.
-1	Disease present (e.g. <i>Phytophthora cinnamomi</i> or marri canker).	Disease present (e.g. <i>Phytophthora cinnamomi</i> or marri canker).	Disease present (e.g. <i>Phytophthora cinnamomi</i> or marri canker).



DoEE 2017 Foraging Habitat Scoring Tool Raw Results







Appendix 7.1: Carnaby's Black-Cockatoo. Application of the Foraging Habitat Scoring Tool. Vegetation codes and descriptions after GHD (2019).

Veg. Unit	Veg. description	Area (ha)	Starting Score	+3: Is within the Swan Coastal Plain (important foraging area).	+3: Contains trees with suitable nest hollows.	+2: Primarily comprises marri	+2: Contains trees with potential to be used for breeding (DBH ≥ 50 cm)	+1: Is known to be a roosting site	Final Score
1	Highly modified / Cleared	786.1	-				-	-	0
2	Non native vegetation	123.3	-	-	-	-	-	-	0
3	Revegetation / Planted	16.8	1	3	3	-	2	-	9
3а	Recent Revegetation / Planted	17.4	1	3	3	-	2	-	9
4	Low woodland of Eucalyptus rudis and Melaleuca rhaphiophylla	21.9	-	-	-	-	-	-	0
5	Corymbia calophylla and Melaleuca preissiana / Kunzea glabrescens Swamp	2.1	7	3	-	2	2	-	14
6	Very open woodland of Melaleuca rhaphiophylla over introduced grasses and herbs in paddocks and road reserves	25.2	-	-	-	-	-	-	0
7	Melaleuca preissiana and Kunzea glabrescens Swamp	4.6	-	-	-	-	-	-	0
8	Mosaic of Melaleuca rhaphiophylla, Corymbia calophylla and Eucalyptus rudis woodland	3.7	1	3	-	-	2	-	6
9	Woodland of Eucalyptus rudis and Corymbia calophylla over Melaleuca rhaphiophylla on creeklines	5.9	7	3	-	2	2	-	14
10	Woodland of Melaleuca rhaphiophylla, Eucalyptus rudis and Casuarina obesa; fringing vegetation along Collie River	2.3	-	-	-	-	-	-	0
11	Open Forest of Corymbia calophylla and Eucalyptus rudis over Agonis flexuosa along the Preston River	21.6	7	3	-	2	2	-	14
11a	Open Forest of Eucalyptus rudis on upper banks of Brunswick River	0.3	-	-	-	-	-	-	0
12	Melaleuca rhaphiophylla and Melaleuca lateritia Shrubland (MrMl)	1.0	-	-	-	-	-	-	0
12a	(blank)	0.4	-	-	-	-	-	-	0

Veg. Unit	Veg. description	Area (ha)	Starting Score	+3: Is within the Swan Coastal Plain (important foraging area).	+3: Contains trees with suitable nest hollows.	+2: Primarily comprises marri	+2: Contains trees with potential to be used for breeding (DBH ≥ 50 cm)	+1: Is known to be a roosting site	Final Score
13	Astartea scoparia shrubland	0.2	-	-	-	-	-	-	0
14	Woodland of Corymbia calophylla and Agonis flexuosa over weedy grass and herbland	6.8	7	3	3	2	2	-	17
15	Open woodland of Corymbia calophylla over introduced grasses in road reserves and paddocks	25.0	7	3	3	2	2	-	17
16	Agonis flexuosa Closed Woodland over pasture grasses	25.8	-	-	-	-	-	-	0
17	Scattered Eucalyptus rudis	1.4	-	-	-	-	-	-	0
18	Isolated Trees of Eucalyptus species / Agonis flexuosa and Melaleuca species in paddocks	10.7	1	3	-	-	2	-	6
19	Woodland of Eucalyptus marginata over Agonis flexuosa, Banksia attenuata and B. ilicifolia	23.1	7	3	3	-	2	-	15
20	Eucalyptus marginata, Banksia spp, Kunzea glabrescens	3.0	7	3	-	-	2	-	12
	Grand Total	1128.5							

Appendix 7.2: Baudin's Black-Cockatoo. Application of the Foraging Habitat Scoring Tool. Vegetation codes and descriptions after GHD (2019).

Veg. Unit	Veg. description	Area (ha)	Starting Score	+3: Is within the known foraging area	+3: Contains trees with suitable nest hollows.	+2: Primarily comprises marri	+2: Contains trees with potential to be used for breeding (DBH ≥ 50 cm)	+1: Is known to be a roosting site	Final Score
1	Highly modified / Cleared	786.1	-				-	-	0
2	Non native vegetation	123.3	-	-	-	-	-	-	0
3	Revegetation / Planted	16.8	1	3	3	-	2	-	9
3a	Recent Revegetation / Planted	17.4	1	3	3	-	2	-	9
4	Low woodland of Eucalyptus rudis and Melaleuca rhaphiophylla	21.9	-	-	-	-	-	-	0
5	Corymbia calophylla and Melaleuca preissiana / Kunzea glabrescens Swamp	2.1	7	3	-	2	2	-	14
6	Very open woodland of Melaleuca rhaphiophylla over introduced grasses and herbs in paddocks and road reserves	25.2	-	-	-	-	-	-	0
7	Melaleuca preissiana and Kunzea glabrescens Swamp	4.6	-	-	-	-	-	-	0
8	Mosaic of Melaleuca rhaphiophylla, Corymbia calophylla and Eucalyptus rudis woodland	3.7	1	3	_	_	2	_	6
9	Woodland of Eucalyptus rudis and Corymbia calophylla over Melaleuca rhaphiophylla on creeklines	5.9	7	3	-	2	2	-	14
10	Woodland of Melaleuca rhaphiophylla, Eucalyptus rudis and Casuarina obesa; fringing vegetation along Collie River	2.3	-	-	-	-	-	-	0
11	Open Forest of Corymbia calophylla and Eucalyptus rudis over Agonis flexuosa along the Preston River	21.6	7	3	-	2	2	-	14
lla	Open Forest of Eucalyptus rudis on upper banks of Brunswick River	0.3	-	-	-	-	-	-	0
12	Melaleuca rhaphiophylla and Melaleuca lateritia Shrubland (MrMI)	1.0	-	-	-	-	-	-	0
12a	(blank)	0.4	-	-	-	-	-	-	0

Veg. Unit	Veg. description	Area (ha)	Starting Score	+3: Is within the known foraging area	+3: Contains trees with suitable nest hollows.	+2: Primarily comprises marri	+2: Contains trees with potential to be used for breeding (DBH ≥ 50 cm)	+1: Is known to be a roosting site	Final Score
13	Astartea scoparia shrubland	0.2	-	-	-	-	-	-	0
14	Woodland of Corymbia calophylla and Agonis flexuosa over weedy grass and herbland	6.8	7	3	3	2	2	-	17
15	Open woodland of Corymbia calophylla over introduced grasses in road reserves and paddocks	25.0	7	3	3	2	2	-	17
16	Agonis flexuosa Closed Woodland over pasture grasses	25.8	-	-	-	-	-	-	0
17	Scattered Eucalyptus rudis	1.4	-	-	-	-	-	-	0
18	Isolated Trees of Eucalyptus species / Agonis flexuosa and Melaleuca species in paddocks	10.7	1	3	-	-	2	-	6
19	Woodland of Eucalyptus marginata over Agonis flexuosa, Banksia attenuata and B. ilicifolia	23.1	7	3	3	-	2	-	15
20	Eucalyptus marginata, Banksia spp, Kunzea glabrescens	3.0	7	3	-	-	2	-	12
	Grand Total	1128.5							

Appendix 7.3: Forest Red-tailed Black-Cockatoo. Application of the Foraging Habitat Scoring Tool. Vegetation codes and descriptions after GHD (2019).

Veg. Unit	Veg. description	Area (ha)	Starting Score	+3: Jarrah shows good recruitment.	+3: Contains trees with suitable nest hollows.	+2: Primarily Contains marri and/or Jarrah	+2: Contains trees with potential to be used for breeding (DBH ≥ 50 cm)	+1: Is known to be a roosting site	Final Score
1	Highly modified / Cleared	786.1	-	-	-	-	-	-	-
2	Non native vegetation	123.3	-	-	-	-	-	-	-
3	Revegetation / Planted	16.8	1	-	-	-	2	-	3
3a	Recent Revegetation / Planted	17.4	1	-	3	-	2	-	6
4	Low woodland of Eucalyptus rudis and Melaleuca rhaphiophylla	21.9	1		-	-	2	-	3
5	Corymbia calophylla and Melaleuca preissiana / Kunzea glabrescens Swamp	2.1	7	3	-	-	2	-	12
6	Very open woodland of Melaleuca rhaphiophylla over introduced grasses and herbs in paddocks and road reserves	25.2	-		_	-	2	-	2
7	Melaleuca preissiana and Kunzea glabrescens Swamp	4.6	-	-	-	-	2	-	2
8	Mosaic of Melaleuca rhaphiophylla, Corymbia calophylla and Eucalyptus rudis woodland	3.7	1	3	-	-	2	_	6
9	Woodland of Eucalyptus rudis and Corymbia calophylla over Melaleuca rhaphiophylla on creeklines	5.9	7	3	-	2	2	-	14
10	Woodland of Melaleuca rhaphiophylla, Eucalyptus rudis and Casuarina obesa; fringing vegetation along Collie River	2.3	1	-	-	-	2	-	3
11	Open Forest of Corymbia calophylla and Eucalyptus rudis over Agonis flexuosa along the Preston River	21.6	7	3	-	2	2	-	14
11a	Open Forest of Eucalyptus rudis on upper banks of Brunswick River	0.3	1	-	-	-	2	-	3
12	Melaleuca rhaphiophylla and Melaleuca lateritia Shrubland (MrMI)	1.0	-	-	-	-	-	-	-
12a	(blank)	0.4	-	-	-	-	-	-	-

Veg. Unit	Veg. description	Area (ha)	Starting Score	+3: Jarrah shows good recruitment.	+3: Contains trees with suitable nest hollows.	+2: Primarily Contains marri and/or Jarrah	+2: Contains trees with potential to be used for breeding (DBH ≥ 50 cm)	+1: Is known to be a roosting site	Final Score
13	Astartea scoparia shrubland	0.2	-	-	-	-	-	-	-
14	Woodland of Corymbia calophylla and Agonis flexuosa over weedy grass and herbland	6.8	7	3	3	2	2	-	17
15	Open woodland of Corymbia calophylla over introduced grasses in road reserves and paddocks	25.0	7	3	3	2	2	-	17
16	Agonis flexuosa Closed Woodland over pasture grasses	25.8	-	-	-	-	-	-	-
17	Scattered Eucalyptus rudis	1.4	1	-	-	-	2	-	3
18	Isolated Trees of Eucalyptus species / Agonis flexuosa and Melaleuca species in paddocks	10.7	1	-	-	-	2	-	3
19	Woodland of Eucalyptus marginata over Agonis flexuosa, Banksia attenuata and B. ilicifolia	23.1	7	3	3	2	2	-	17
20	Eucalyptus marginata, Banksia spp, Kunzea glabrescens	3.0	7	3	-	2	2	-	14
_	Grand Total	1128.5	-	-	-	-	-	-	

