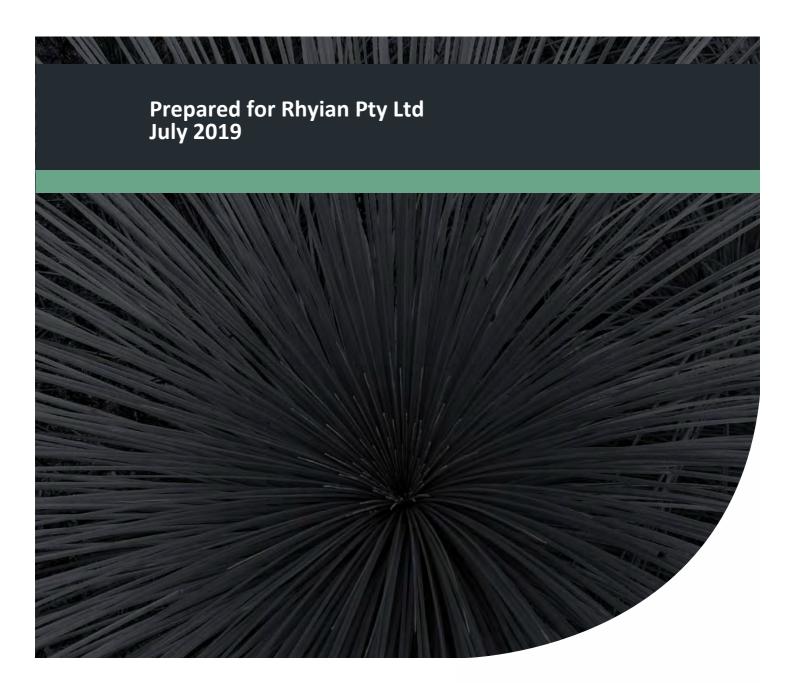


Level 1 Fauna and Targeted Black Cockatoo Assessment

Lot 1001 Murdoch Drive, Murdoch

Project No: EP19-068(05)





Document Control

Doc name:	Level 1 Fauna and Targeted Black Cockatoo Assessment Lot 1001 Murdoch Drive, Murdoch					
Doc no.:	EP19-068(05)007 I	EP19-068(05)007 MS				
Version	Date	Author		Reviewer		
1	July 2019	Melanie Schubert MS		Tom Atkinson	ТАА	
	Submitted for client review					

© 2019 Emerge Associates All Rights Reserved. Copyright in the whole and every part of this document belongs to Emerge Associates and may not be used, sold, transferred, copied or reproduced in whole or in part in any manner or form or in or on any media to any person without the prior written consent of Emerge Associates.



Executive Summary

Rhyian Pty Ltd intends to develop Lot 1001 Murdoch Drive in Murdoch for commercial development purposes. This lot (referred to herein as 'the site') is located approximately 18 kilometres (km) south of the Perth Central Business District within the City of Melville.

An ecologist from Emerge Associates visited the site on 24 June 2019 and undertook a 'level 1' fauna survey and a targeted black cockatoo survey. During the survey targeted searches for fauna species were conducted with a particular reference for 'threatened' and 'priority' fauna species and an assessment was made on the type and conservation significance of fauna habitat across the site.

Outcomes of the survey include the following:

- A total of 11 native and two non-native fauna species were positively identified to occur within the site, including threatened (endangered) Carnaby's cockatoo and (vulnerable) forest red-tailed black cockatoo.
- Six additional species of conservation significance are considered to have potential to occur within the site, including Baudin's cockatoo (endangered), black-stripe snake (P3), Perth slider (P3), graceful sunmoth (P4), quenda (P4) and pacific swift (migratory). However, the likelihood that the site would provide important habitat for these species is low, due to the relatively poor condition and limited extent of habitat within the site.
- The site contains nine potential black cockatoo habitat trees, of which none contain hollows. The site does therefore currently not provide suitable breeding habitat for species of black cockatoo.
- No evidence of black cockatoo roosting activity was observed within the site and it is considered unlikely that roosting would occur.
- Plant species within areas of **banksia woodland** and scattered native trees within the site are considered to provide a limited extent of quality foraging habitat for Carnaby's cockatoo, forest red-tailed cockatoo and to a lesser extent Baudin's cockatoo.
- With the exception of the aforementioned species of black cockatoo, the site is likely to be primarily utilised by common and widespread native species without specific habitat requirements.



This page has been left blank intentionally.



Table of Contents

1	Intro	Introduction1			
	1.1	Project background			
	1.2	Purpose and scope of work			
2	Envir	ronmental Context	2		
	2.1	Significant fauna			
		2.1.1 Threatened fauna species			
		2.1.2 Priority fauna species			
		2.1.3 Migratory fauna species			
		2.1.4 Pest fauna species			
	2.2	Bush Forever			
	2.3	Ecological linkages			
	2.4	Black cockatoo habitat			
	2.5	Previous surveys	5		
3	Met	hods	6		
	3.1	Desktop assessment	6		
		3.1.1 Database searches	6		
		3.1.2 Likelihood of occurrence	6		
	3.2	Field survey	6		
		3.2.1 Level 1 fauna	6		
		3.2.2 Targeted black cockatoo	7		
	3.3	Mapping and data analysis			
		3.3.1 Fauna habitat			
		3.3.2 Black cockatoo habitat			
	3.4	Survey limitations	9		
4	Resu	ılts	10		
	4.1	General site conditions			
	4.2	Fauna habitat			
	4.3	Fauna			
		4.3.1 Desktop assessment			
		4.3.2 Species inventory			
		4.3.3 Conservation significant fauna			
		4.3.1 Declared pests			
	4.4	Black cockatoo habitat			
		4.4.1 Breeding habitat			
		4.4.2 Roosting habitat			
		4.4.3 Foraging habitat			
5	Discu	ussion			
	5.1	Fauna habitat values			
	5.2	Black cockatoo habitat values			
6	Conc	clusions	19		
7	Refe	rences	20		
	7.1	General references			
	7.2	Online references			



List of Tables

Table 1: Attributes recorded as part of the black cockatoo potential habitat tree (POT) assessment	7
Table 2: Evaluation of survey methodology against standard constraints outlined in EPA Technical	
Guidance – Terrestrial fauna Surveys.	9
Table 3: Fauna habitats identified within the site	11
Table 4: Summary of conservation significant fauna species with have potential to occur within the si	ite.15

List of Plates

Plate 1: Banksia woodland	11
Plate 2: Open woodland Corymbia calophylla and Eucalyptus marginata	12
Plate 3: Dense shrubland Chamelaucium uncinatum.	12
Plate 4: Open woodland Eucalyptus spp	13
Plate 5: Scattered non-native trees and shrubs.	13
Plate 6: Non-native grassland (foreground).	14

Figures

Figure 1: Site Location

Figure 2: Environmental Features

Figure 3: Black Cockatoo Habitat Context

Figure 4: Fauna Habitat

Figure 5: Black Cockatoo Habitat

Appendices

Appendix A

Additional Background Information

Appendix **B**

NatureMap Database Results

Appendix C

Conservation Significant Species and Likelihood of Occurrence Assessment

Appendix D

Species List

Appendix E

Black Cockatoo Potential Habitat Tree Data

Abbreviation Tables

Table A1: Abbreviations – Organisations

Organisations	
EPA	Environmental Protection Authority
DBCA	Department of Biodiversity, Conservation and Attractions
DPaW	Department of Parks and Wildlife (now DBCA)
DoEE	Department of Environment and Energy

Table A2: Abbreviations – General terms

General terms	
ESA	Environmentally sensitive area
VU	Vulnerable
EN	Endangered
S	Specially protected fauna
CD	Conservation depended
CE	Critically endangered
IA	International agreement
MI	Migratory fauna
P1	Priority 1
P2	Priority 2
P3	Priority 3
P4	Priority 4
Р5	Priority 5
DBH	Diameter at breast height

Table A3: Abbreviations –Legislation

Legislation	
EPBC Act	Environment Protection and Biodiversity Conservation Act 1999
BC Act	Biodiversity Conservation Act 2016

Table A4: Abbreviations - planning

Planning terms	
TPS	District Planning Scheme
MRS	Metropolitan region scheme



Table A5: Abbreviations – units of measurement

Units of measurement		
ha	Hectare	
km	Kilometre	
m	Metre	
cm	Centimetre	



1 Introduction

1.1 Project background

Rhyian Pty Ltd (Rhyian) intends to develop Lot 1001 Murdoch Drive in Murdoch for commercial development purposes. This lot (referred to herein as 'the site') is located approximately 18 kilometres (km) south of the Perth Central Business District within the City of Melville and is zoned 'urban' under the Metropolitan Region Scheme and reserved 'service commercial' under the City of Melville *Local Planning Scheme* (LPS) No. 6.

The site is approximately 1.49 hectares (ha) in size and is bound by commercial land to the east, State Energy Commission land to the north, Murdoch Drive to the west and Farrington Road to the south. The location and extent of the site is shown in **Figure 1**.

1.2 Purpose and scope of work

Emerge Associates (Emerge) were engaged by Rhyian to provide environmental consultancy services to support the planning process for the site. The purpose of this survey is to provide sufficient information on the fauna values within the site to inform this process.

The scope of work was specifically to conduct a fauna assessment to the standard required of a 'level 1' fauna survey and a targeted black cockatoo survey in accordance with the Environmental Protection Authority's (EPA's) *Technical Guidance – Terrestrial fauna Surveys* (EPA 2016).

As part of this scope of work the following tasks were undertaken:

- Desktop review of background information regarding fauna species relevant to the site and surrounds.
- Compilation of a list of fauna species opportunistically recorded as part of the field survey.
- Identification of potential habitat for conservation significant fauna species and likelihood of occurrence.
- A targeted black cockatoo survey.
- Documentation of the desktop assessment, survey methodology and results into a report.

2 Environmental Context

2.1 Significant fauna

2.1.1 Threatened fauna species

Certain fauna taxa that are considered to be rare or under threat warrant special protection under Commonwealth and/or State legislation. At a Commonwealth level, fauna taxa may be listed as 'threatened' under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). Any action likely to have a significant impact on a taxon listed under the EPBC Act requires approval from the Commonwealth Minister for the Environment and Energy.

In Western Australia fauna species may also be classed as 'threatened' under the *Biodiversity Conservation Act 2016* (BC Act). It is an offence to 'take' or disturb threatened fauna without Ministerial approval.

Threatened fauna species listed under the EPBC Act and/or BC Act are assigned a conservation status. Further information on threatened species and their categories is provided in **Appendix A**.

2.1.2 Priority fauna species

Fauna species that do not currently meet the criteria for listing as threatened but are potentially rare or threatened may be added to the Department of Biodiversity, Conservation and Attractions (DBCA) *Priority Fauna List*. These species are classified into 'priority' levels based on threat. Whilst priority species are not under direct statutory protection, they are considered during State approval processes. Further information on priority species and their categories is provided in **Appendix A**.

2.1.3 Migratory fauna species

Migratory fauna species that migrate to Australia and its external territories, or pass though or over Australian waters during their annual migrations warrant special protection under Commonwealth and State legislation. At a Commonwealth level, migratory fauna taxa may be listed as 'migratory' under *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). Any action likely to have a significant impact on a taxon listed under the EPBC Act requires approval from the Commonwealth Minister for the Environment and Energy.

In Western Australia migratory fauna taxa may be listed as 'specially protected species' and classed as 'migratory' under the *Biodiversity Conservation Act 2016* (BC Act). Further information on migratory species is provided in **Appendix A**.

2.1.4 Pest fauna species

The term 'pest fauna' can refer to any animal that requires some form of action to reduce its effect on the economy, the environment, human health and amenity. Many non-native fauna species and some fauna species native to Australia but not Western Australia are considered to be pest fauna.

A particularly invasive or detrimental pest species may be listed as a 'declared pest' pursuant to Western Australia's *Biosecurity and Agriculture Management Act 2007* (BAM Act), indicating that it

warrants special management to limit its spread. At a National level, pest fauna may be listed as 'Established Pests and Diseases of National Significance' (EPDNS) under the *Australian Pest Animal Strategy (2017-2027) (DoA 2017)*. Further information on declared pests and their categories is provided in Appendix A.

2.2 Bush Forever

The Government of Western Australia's *Bush Forever* policy is a strategic plan for conserving regionally significant bushland within the Swan Coastal Plain portion of the Perth Metropolitan Region. The objective of *Bush Forever* is to protect comprehensive representations of all original ecological communities by targeting a minimum of 10% of each vegetation complex for protection (Government of WA 2000). *Bush Forever* sites are representative of regional ecosystems and habitat and have a key role in the conservation of Perth's biodiversity.

No *Bush Forever* sites occur within or in close proximity to the site. Bush Forever Site 244 (North Lake and Bibra Lake, North Lake/Bibra Lake) lies approximately 550 m to the west of the site and extends to the south west of the site. The location of Bush Forever Site 244 in relation to the site is shown in **Figure 2**.

2.3 Ecological linkages

Ecological linkages are linear landscape elements that allow the movement of fauna, flora and genetic material between areas of remnant habitat. This exchange of genetic material between vegetation remnants improves the viability of those remnants by allowing greater access to breeding partners and food sources, refuge from disturbances such as fire and maintenance of genetic diversity of plant communities and populations. Ecological linkages are ideally continuous or near-continuous as the more fractured a linkage is, the less ease flora and fauna have in moving within the corridor (Alan Tingay and Associates 1998).

The Perth Biodiversity Project, supported by the Western Australia Local Government Association (WALGA), have identified and mapped regional ecological linkages within the Perth Metropolitan Region (WALGA and PBP 2004). This study was extended beyond the Perth Metropolitan Region through the South West Biodiversity Project, resulting in the identification and mapping of the South West regional ecological linkages (Molloy *et al.* 2009).

There are no mapped ecological linkages within or in close proximity to the site. One regional ecological linkage (No. 50) occurs approximately 800 m west of the site running from north to south and intersects with another ecological linkage (No. 48) running east to west approximately 500 m south of the site. These ecological linkages connect areas of *Bush Forever* located in the wider local area. The location of these linkages is shown in **Figure 2**.

2.4 Black cockatoo habitat

The Swan Coastal Plain is known to provide habitat for three threatened species of black cockatoo, including *Calyptorhynchus latirostris* (Carnaby's cockatoo), *Calyptorhynchus baudinii* (Baudin's cockatoo) and *Calyptorhynchus banksii naso* (forest red-tailed black cockatoo).

Important black cockatoo habitat includes the following:

- Breeding habitat: Trees that contain hollows that are suitable for breeding black cockatoos. These must generally be located within 7 km of food and water resources (Saunders 1990).
- Roosting habitat: Groups of large trees that are located within 6 km of water and food resources, with overlapping foraging ranges within 12 km (Shah 2006; Le Roux 2017).
- Foraging habitat: Vegetation that contains known foraging plant species for black cockatoos.

The Department of Planning (DoP), in partnership with the Department of the Environment and Energy (DoEE) and fauna experts have identified and mapped Carnaby's cockatoo habitat (breeding, roosting and foraging) on the Swan Coastal Plain and Jarrah Forest to help identify areas of highest potential conflict between land-use planning and conservation of habitat (Johnstone *et al.* 2011).

The dataset includes confirmed (chicks or eggs observed) and potential (breeding behaviour or chew marks observed but no chicks or eggs) Carnaby's cockatoo breeding habitat, as well as confirmed (roosting observed) and potential roosting (requiring further investigation) habitat. Potential foraging habitat is mapped based on regional vegetation mapping that may contain plant species known to be foraged upon by Carnaby's cockatoo (Heddle *et al.* 1980; Havel and Mattiske 2000; DEC 2007; Strelein *et al.* 2009).

While this dataset only predicts potential habitat presence for Carnaby's cockatoo, the information is also largely applicable for Baudin's cockatoo and forest red-tailed black cockatoo. Many plant species that are foraged upon by Carnaby's cockatoo are also consumed by Baudins' cockatoo (e.g. *Banksia* spp. cones and *Corymbia calophylla* (marri) nuts) and forest red-tailed cockatoo (e.g. *Eucalyptus marginata* (jarrah) and marri nuts). Similarly, some roost and breeding sites that are suitable for Carnaby's cockatoo may also be suitable for Baudin's cockatoo and forest red-tailed cockatoo. The potential foraging habitat dataset is likely an overestimation of available foraging habitat for forest red-tailed cockatoos, as it includes a number of plant species that are not consumed by this species (e.g. *Banksia* spp.).

No confirmed or potential Carnaby's cockatoo breeding habitat is mapped within the site. The closest confirmed Carnaby's cockatoo breeding habitat is located approximately 10 km east of the site and potential breeding habitat is located 1.5 km north of the site.

No confirmed or potential roost site mapped within the site. Two confirmed black cockatoo roost sites are located approximately 1.5 m north and 2.8 km east of the site. This includes a very large roost site, located on Murdoch University grounds.

Vegetation in the southern and central portions of the site is mapped as potential black cockatoo foraging habitat. Extensive areas of potential black cockatoo foraging habitat exist approximately 20 km east of the site, which comprises remnant vegetation of the Jarrah Forest on the Darling Scarp.

emerge

This vegetation is likely suitable for foraging by all three species of black cockatoo. Multiple smaller patches of mapped potential black cockatoo foraging habitat occur within the local area.

Black cockatoo habitat within the wider local area is shown in Figure 3.

2.5 Previous surveys

No previous fauna surveys are known to have been undertaken over the site.



3 Methods

3.1 Desktop assessment

3.1.1 Database searches

A search was conducted for threatened and priority flora that may occur or have been recorded within a 10 km radius of the site using the *Protected Matters Search Tool* (DoEE 2019a) and *NatureMap* (DBCA 2019).

A total number of species with potential to occur within the site was calculated by adding the total count of non-conservation significant species provided by *NatureMap* to the combined number of conservation significant species provided by *NatureMap* and *Protected Matters Search Tool*.

3.1.2 Likelihood of occurrence

Information on habitat preferences and distribution of threatened and priority vertebrate fauna species¹ identified to potentially occur within the site or wider area was reviewed. This was assessed against the general site conditions and fauna habitat types recorded during the field survey.

An assessment of the likelihood of occurrence of threatened and priority fauna species within the site was undertaken and each was assigned to one of the following categories:

- Recorded: The species was positively identified as being present within the site during the field survey or from recent literature records.
- Likely: Potentially suitable habitat for the species was identified during the field survey and the site lies within the known distribution of the species.
- Possible: Potentially suitable habitat for the species was identified but of marginal quality and/or extend. The site lies within or close to the known distribution of the species.
- Unlikely: The site lies outside of the known distribution of the species and/or no suitable habitat was identified within the site.

3.2 Field survey

An ecologist from Emerge visited the site on the 24 June 2019 during the day (from 10:00 AM to 03:00 PM) to conduct the level 1 fauna survey and targeted black cockatoo field survey. The weather was fine with intermittent clouds.

3.2.1 Level 1 fauna

Transects were traversed across the site, during the day, and the characteristics of fauna habitat and presence of fauna species was recorded. Microhabitats such as logs, rocks and leaf litter were investigated and secondary evidence of species presence such as tracks, scats, skeletal remains, foraging evidence or calls was also noted.

A vertebrate fauna list was compiled and fauna habitat values were described, with particular reference to 'threatened' and 'priority' fauna species with potential to occur within the site¹. Taxonomy and nomenclature for vertebrate fauna species was taken from the *WA Museum Checklist of the Terrestrial Vertebrate Fauna of Western Australia* (Western Australian Museum 2019). Literature listed in **Appendix A** represent the main publications used to identify fauna species and habitats within the site.

3.2.2 Targeted black cockatoo

The site was searched for potential black cockatoo breeding, roosting and foraging habitat. Potential breeding habitat trees² were individually identified, tagged and assessed against attributes outlined in **Table 1** below. Potential habitat trees were deemed as potentially suitable for use by breeding black cockatoos if the opening diameter was \geq 10 cm (Groom 2010) and if the hollow was located in a trunk branch that is large enough to allow for a mature black cockatoo to occupy it.

Attribute	Description
Tag	Unique identifier on a metal tag was attached to each potential habitat tree (POT).
Image	Each POT was individually photographed.
GPS location	The location of each POT was recorded using a handheld GPS unit.
Tree species	Species and common name were identified.
Diameter at breast height (DBH) (cm)	Each POT was measured using a diameter tape.
Tree height (m)	The height of each POT was estimated.
Hollow information	If observed, hollows were noted and photographed.
Entrance information	The entrance diameter was estimated and the entry position noted (e.g. top-entry or side-entry).
Hollow orientation	The orientation of hollows was recorded (vertical, near-vertical, non-vertical).
Hollow height (m)	The height of hollows was recorded.
Signs of use of hollows	Signs of use of hollows by black cockatoos or other species were noted.

Table 1: Attributes recorded as part of the black cockatoo potential habitat tree (POT) assessment.

A dusk roost survey was not undertaken but the site was assessed for the potential of providing roosting habitat for black cockatoos, and secondary evidence of roosting activity, such as branch clippings, droppings or moulted feathers was searched. Patches of large native and non-native trees were assumed to provide potential black cockatoo roosting habitat.

Potential black cockatoo foraging habitat was identified by comparing the literature on known foraging habitat resources against the vegetation within the site (Davies 1966; Saunders 1980; Johnstone and Storr 1998; Johnstone and Kirkby 1999; Groom 2011; Johnstone *et al.* 2011; DOEE

¹ Invertebrate taxa were not assessed and no evaluation of the potential for invertebrate taxa to occur within the site is provided.

² Native tree of a suitable species with a diameter at breast height (DBH) \geq 50 cm (or \geq 30 cm for salmon gum and wandoo).

2012, 2017). Secondary evidence of black cockatoo foraging, such as chewed marri nuts or banksia cones, within the site was searched and allocated to a species where possible.

Active searches were conducted for secondary evidence of breeding, roosting and foraging activity such as chew marks, branch clippings, droppings, moulted feathers and chewed marri nuts or banksia cones.

3.3 Mapping and data analysis

3.3.1 Fauna habitat

Fauna habitats were described according to the dominant flora species and vegetation type present, as determined from observations made during the field survey and information provided in the *'Reconnaissance Flora and Vegetation Assessment'* (Emerge Associates 2019). The identified fauna habitats were mapped on aerial photography with the boundaries interpreted from aerial photography, previously identified plant communities (Emerge Associates 2019) and notes taken in the field.

Information on specific habitat requirements for conservation significant vertebrate fauna species with potential to occur within the site were compiled as part of the desktop assessment. This information was compared to the fauna habitats identified within the site to determine whether any conservation significant fauna species are considered to have potential to utilise the site.

3.3.2 Black cockatoo habitat

The location of potential black cockatoo habitat trees recorded in the site and information on hollows (if present) were mapped on aerial imagery. The data for each potential black cockatoo habitat tree was compiled in a table format.

Potential black cockatoo foraging habitat was mapped according to the fauna habitats recorded and notes taken in the field. The quality of foraging habitat was assessed based on presence of black cockatoo foraging plant species, vegetation extent and regional context of the site and information provided in the Department of the Environment and Energy's (DoEE) *EPBC Act referral guidelines for three threatened black cockatoo species* (DoEE 2012).

3.4 Survey limitations

It is important to note the specific constraints imposed on surveys and the degree to which these may have limited survey outcomes. An evaluation of the survey methodology against standard constraints outlined in the EPA document *Technical Guidance – Terrestrial Fauna Surveys* (EPA 2016) is provided in **Table 2**.

Table 2: Evaluation of survey methodology against standard constraints outlined in EPA Technical Guidance – Terrestrial fauna Surveys.

Constraint	Degree of limitation	Details
Level of survey	No limitation	A level 1 survey (desktop study and field survey) in combination with level 2 (targeted) black cockatoo survey was considered adequate given the relatively low habitat values within the site and the generally good availability of fauna information for the region.
Scope	No limitation	The survey focused on vertebrate fauna and habitat values, with particular focus on conservation significant taxa with potential to occur within the site.
Proportion of fauna identified, recorded and/or collected.	No limitation	All observed vertebrate fauna were identified. No reptiles where observed within the site. It is likely that reptiles are present within the site but not detected due to typically low activity during cold weather.
Sources of information e.g. previously available information (whether historic or recent) as distinct from new data.	No limitation	Adequate information was available from database searches.
The proportion of the task achieved and further work which might be needed.	No limitation	The task was achieved in its entirety.
Experience level of personnel	Minor limitation	This fauna assessment was undertaken by a qualified, early career ecologist with a university degree in landscape ecology. The ecologist is experienced in conducting fauna surveys but is relatively new to Western Australia. Technical review was undertaken by a senior environmental consultant with 15 years' experience in environmental science in Western Australia.
Suitability of timing	Slight limitation	Survey timing is not considered to be of great importance for Level 1 assessments. Nonetheless, the cold seasonal conditions during the field survey likely reduced the detectability of some fauna classes such as reptiles.
Completeness	No limitation	The desktop assessment, field survey and targeted black cockatoo components of the survey were completed.
Spatial coverage and access	No limitation	Site coverage was comprehensive (track logged).
	No limitation	All parts of the site could be accessed as required.
Survey intensity	No limitation	The intensity of the survey was adequate given the size of the site and the relatively low habitat value present.
Influence of disturbance	No limitation	The site is highly modified due to historical disturbance. However, no recent disturbance was noted that may have affected outcomes of the survey.
Adequacy of resources	No limitation	All resources required to perform the survey were available.



4 Results

4.1 General site conditions

The site contains a west facing slope with sandy soils. Historical clearing is evident, particularly in the western half of the site. A number of tracks are present throughout and surrounding the periphery of the site. Evidence of disturbance to the landform was observed, particularly the presence of steep sloping sand banks in the north eastern and south eastern portions of the site.

4.2 Fauna habitat

Historical disturbance has significantly compromised habitat values within the site. The majority of the native vegetation has been removed and vegetation now predominantly comprises cleared areas, dominated by non-native and weed species with scattered or patches of native and non-native trees and shrubs.

A total of six (6) fauna habitats were identified within the site, including 'banksia woodland', 'open woodland *Corymbia calophylla* and *Eucalyptus marginata*', 'dense shrubland *Chamelaucium uncinatum*', 'open woodland *Eucalyptus* spp.', 'scattered non-native trees and shrubs' and 'non-native grassland'.

A description and the area of each habitat is provided in **Table 3** and representative photographs of each are provided in **Plate 1** to **Plate 6**. The location of each habitat is shown on **Figure 4**.

The highest fauna habitat values within the site are associated with a small area of remnant native **banksia woodland** vegetation. In particular where this vegetation remains in good³ or better condition, it provides a cover of native trees and shrubs, dense ground cover and contains microhabitats such as logs, rocks and leaf litter.

³ Keighery, B. 1994, *Bushland Plant Survey: A guide to plant community survey for the community*, Wildflower Society of WA (Inc), Nedlands.

emerge

Level 1 Fauna and Targeted Black Cockatoo Assessment Lot 1001 Murdoch Drive, Murdoch

Table 3: Fauna habitats identified within the site.

Fauna habitat classification	Description	Area (ha)
Banksia woodland	Low open woodland of <i>Banksia menziesii</i> , <i>B. attenuata</i> , <i>B. ilicifolia</i> , <i>Eucalyptus marginata</i> and <i>Nuytsia floribunda</i> over open shrubland of <i>Kunzea glabrescens</i> , <i>Xanthorrhoea preissii</i> and <i>Allocasuarina humilis</i> over low shrubland of <i>Acacia pulchella</i> var. <i>glaberrima</i> , <i>Stirlingia latifolia</i> , <i>Eremaea pauciflora</i> var. <i>pauciflora and Hibbertia</i> spp. over forbland of <i>Desmocladus flexuosus</i> , <i>Patersonia occidentalis</i> and <i>Lomandra</i> spp. and open grassland of * <i>Ehrharta calycina</i> and * <i>Briza maxima</i> (Plate 1).	0.47
Open woodland Corymbia calophylla and Eucalyptus marginata	Scattered <i>Eucalyptus marginata</i> and <i>Corymbia calophylla</i> trees over weeds and occasional native species (Plate 2).	0.09
Dense shrubland Chamelaucium uncinatum	Dense shrubland <i>Chamelaucium uncinatum</i> over weeds and bare ground (Plate 3).	0.06
Open woodland Eucalyptus spp.	Open woodland of planted <i>Eucalyptus</i> spp. over shrubland of <i>Stirlingia latifolia</i> and <i>Kunzea glabrescens</i> over weeds (Plate 4).	0.04
Scattered non-native trees and shrubs	Scattered non-native trees and shrubs over weeds and bare ground (Plate 5).	0.05
Non-native grassland Heavily disturbed areas comprising grassy and herbaceous weeds with occasional native shrubs and forbs and planted vegetation (Plate 6).		0.78



Plate 1: Banksia woodland





Plate 2: Open woodland Corymbia calophylla and Eucalyptus marginata.



Plate 3: Dense shrubland Chamelaucium uncinatum.





Plate 4: Open woodland Eucalyptus spp.



Plate 5: Scattered non-native trees and shrubs.





Plate 6: Non-native grassland (foreground).

4.3 Fauna

4.3.1 Desktop assessment

A total number of 678 fauna species were identified from database searches as occurring or potentially occurring within 10 km of the site⁴ as listed in **Appendix B**.

This includes 37 threatened, 17 priority, 37 migratory fauna and two other specially protected species as listed in **Appendix C.**

4.3.2 Species inventory

A total of 11 native and two introduced fauna species, including two fauna species of conservation significance (Carnaby's cockatoo and forest red-tailed black cockatoo), were directly or indirectly (from foraging evidence) recorded during the field survey. A complete species list is provided in **Appendix D**.

4.3.3 Conservation significant fauna

Foraging evidence indicates that the threatened fauna species Carnaby's cockatoo and forest redtailed black cockatoo have utilised the site.

The majority of the threatened and priority flora species identified in the desktop assessment are not considered to occur in the site due to lack of suitable habitat or because the site lies outside of the species known distribution.

⁴ Includes native and non-native species

Other conservation significant fauna species identified from database searches that are considered to also have the potential to utilise the site are shown in **Table 4**.

Table 4: Summary of conservation significant fauna species with have potential to occur within the site.

Species Common name		Level of significance		Habitat	Likelihood of occurrence within the site			
		BC Act	EPBC Act					
Birds								
Apus pacificus	Pacific swift	MI	MI	Aerial, migratory species that is most often seen over inland plains and sometimes above open areas, foothills or in coastal areas. Sometimes occurs over settled areas, including towns, urban areas and cities.	Possible: May opportunistically occur in or fly over the site on commute or while searching for prey.			
Calyptorhynchus banksii naso	Forest red-tailed black cockatoo	VU	VU	Eucalypt and Corymbia forests, often in hilly interior. More recently also observed in more open agricultural and suburban areas including Perth metropolitan area. Attracted to seeding Corymbia calophylla, Eucalyptus marginata, introduced Melia azedarach and Eucalyptus spp. trees.	Likely: Foraging habitat present.			
Calyptorhynchus baudinii	Baudin's cockatoo	EN	EN	Mainly eucalypt forests. Attracted to seeding Corymbia calophylla, Banksia spp., Hakea spp., and to fruiting apples and pears.	Possible: Species prefers dense eucalypt forests and does not usually occur in the Perth metropolitan area. However, it may occasionally fly over the site or forage opportunistically.			
Calyptorhynchus latirostris	Carnaby's cockatoo	EN	EN	Mainly proteaceous scrubs and heaths and adjacent eucalypt woodlands and forests; also plantations of Pinus spp. Attracted to seeding Banksia spp., Dryandra spp., Hakea spp., Eucalyptus spp., Corymbia calophylla, Grevillea spp., and Allocasuarina spp	Likely: Foraging habitat present.			

Table 3 (continued): Summary of conservation significant fauna species deemed possible or likely to occur within the site.

Species	Common name	Level of significance		Habitat	Likelihood of occurrence within the site			
		WA	EPBC Act					
Mammals								
Isoodon fusciventer	Quenda	Ρ4	-	Dense scrubby, often swampy, vegetation with dense cover up to one metre high	Possible: Some parts of the site provide adequate ground cover for this species but these are limited in extent.			
Reptiles								
Lerista lineata	Perth slider	Р3	-	Sandy coastal heath and low scrubland. Banksia spp. woodland, Eucalyptus gomphocephala open woodland over deep sands, and coastal dunes immediately adjacent to the beach.	Possible: May utilise the remnant banksia woodland vegetation and sandy soils within the site.			
Neelaps calonotos	Black-striped snake	Р3	-	Coastal and near-coastal dunes, sandplains supporting heathlands and Banksia spp. woodlands.	Possible: May utilise the remnant banksia woodland vegetation.			

4.3.1 Declared pests

One species, **Oryctolagus cuniculus* (rabbit) listed as a declared pest (C3) pursuant to the BAM Act, was identified from scats within the site.

4.4 Black cockatoo habitat

4.4.1 Breeding habitat

A total of nine potential black cockatoo habitat trees were observed within the site as shown in **Figure 5**. These trees consist of five *Corymbia calophylla* (marri), three *Eucalyptus marginata* (jarrah) and one *Eucalyptus gomphocephala* (tuart). None of the potential habitat trees contained hollows. An inventory of potential habitat trees recorded within the site is provided in **Appendix E**.

4.4.2 Roosting habitat

No evidence of black cockatoo roosting, such as branch clippings, droppings and moulted feathers was observed within the site. A small number of native and non-native trees within the site have the potential to provide a limited area of roosting habitat for black cockatoos.

4.4.3 Foraging habitat

The site contains approximately 0.57 ha of potential black cockatoo foraging habitat as shown in **Figure 5**. The majority of the foraging habitat within the site consists of banksia woodland vegetation such as *Banksia attenuata*, *Banksia ilicifolia*, *Banksia menziesii*, *Jacksonia furcellata*, *Xanthorrhoea preissii*. These species are recognised as important foraging species for Carnaby's cockatoo and Baudin's cockatoo and would therefore be considered a quality foraging resource. The site also contains patches of marri and jarrah trees and one tuart tree, which are also recognised as important foraging species for the two black cockatoo species mentioned above and forest red-tailed black cockatoo.

The site is therefore considered to contain approximately 0.55 ha of quality foraging habitat for Carnaby's and Baudin's cockatoos and approximately 0.12 ha of quality foraging habitat for forest red-tailed black cockatoo. The scattered non-native eucalyptus trees (0.02 ha) within the site may be foraged upon opportunistically but do not represent a quality resource.

Foraging evidence attributed to Carnaby's cockatoo and forest red-tailed black cockatoo was observed within the site.

5 Discussion

5.1 Fauna habitat values

Fauna habitat values within the site are generally limited. The 11 native and two non-native fauna recorded within the site are all generally common and widespread species.

Habitat value is greatest with respect to **banksia woodland**, as well as, scattered native trees within the site that likely provide value to a range of native species including some that are conservation significant, such as species of black cockatoo (further discussed in **Section 4.2** below). However, the extent of **banksia woodland** vegetation within the site is relatively small (0.47 ha). For the majority of the site, habitat values are compromised by the removal of native vegetation and historical degradation. The site now primarily provides habitat that is suitable for common and widespread species with non-specific habitat requirements.

5.2 Black cockatoo habitat values

Carnaby's cockatoo and forest red-tailed black cockatoo were positively identified within the site. A record of these species at the site was anticipated as the areas surrounding the site are known to contain habitat used by these species. The site lies outside of the usual distribution range of Baudin's cockatoo. However, this species travels long distances and may occasionally fly over the site while commuting between habitats and may also utilise the site for foraging opportunistically, as some potentially suitable foraging habitat is present.

Of the nine potential black cockatoo habitat trees identified within the site, none were observed to contain hollows. Hence the site does not currently provide breeding habitat for species of black cockatoo. While trees within the site have the potential to form hollows in the future, it will likely take many years for hollows to form that are suitable for use by black cockatoos.

A small number of trees within the site have the potential to provide roosting habitat for black cockatoos. However, the extent of this habitat is very limited and no evidence of recent or historical roosting activity was observed within the site. It is therefore considered unlikely that black cockatoo roosting would occur within the site due to the small number of trees present and isolation of patches of trees.

Several plant species within remnant patches of vegetation in the site are recognised as important foraging resources for Carnaby's and Baudin's cockatoo and forest red-tailed black cockatoo. However, the site is located outside of Baudin's cockatoo usual range and the site is therefore not considered to represent important foraging habitat for this species. Quality foraging habitat for Carnaby's cockatoo and forest red-tailed black cockatoo within the site covers a relatively small area (0.55 ha Carnaby's cockatoo and 0.12 ha forest red-tailed black cockatoo) and extensive areas of higher quality black cockatoo foraging habitat are located in close proximity to the site.

6 Conclusions

A total of 11 native and two non-native fauna species were positively identified to occur within the site, including threatened (endangered) Carnaby's cockatoo and (vulnerable) forest red-tailed black cockatoo. Six additional species of conservation significance are considered to have potential to occur within the site, including Baudin's cockatoo (endangered), black-stripe snake (P3), Perth slider (P3), graceful sunmoth (P4), quenda (P4) and pacific swift (migratory). However, the likelihood that the site would provide important habitat for these species is low, due to the relatively poor condition and limited extent of habitat within the site.

The site contains nine potential black cockatoo habitat trees, of which none contain hollows. The site does therefore currently not provide suitable breeding habitat for species of black cockatoo. No evidence of black cockatoo roosting activity was observed within the site and it is considered unlikely that roosting would occur. Plant species within areas of **banksia woodland** and scattered native trees within the site are considered to provide a limited extent of quality foraging habitat for Carnaby's cockatoo, forest red-tailed cockatoo and to a lesser extent Baudin's cockatoo.

With the exception of the aforementioned species of black cockatoo, the site is likely to be primarily utilised by common and widespread native species without specific habitat requirements.



7 References

7.1 General references

- Alan Tingay and Associates 1998, A Strategic Plan for Perth's Greenways Final Report. December 1998.
- Davies, S. J. J. F. 1966, *The movements of the White-tailed Black Cockatoo* (*Calyptorhynchus baudinii*) in south-western Australia, Western Australian Naturalist 10: 33-42.
- Department of Environment and Conservation (DEC) 2007, Vegetation Map for the State of Western Australia, Perth.
- Department of Agriculture (DoA) 2017, *Australian Pest Animal Strategy (2017-2027)*, Canberra.
- Department of the Environment and Energy (DoEE) 2012, EPBC Act referral guidelines for three threatened black cockatoo species, Australian Government, Canberra.
- Department of Environment and Energy (DoEE) 2017, Revised draft referral guideline for three threatened black cockatoo species: Carnaby's Cockatoo (Endangered) Calyptorhynchus latirostris, Baudin's Cockatoo (Vulnerable) Calyptorhynchus baudinii and Forest Red-tailed Black Cockatoo (Vulnerable) Calyptorhynchus banksii naso, Canberra, Australia.
- Emerge Associates 2019, *Reconnaissance Flora and Vegetation Assessment Lot 1001 Murdoch Drive Murdoch*, EP19-068(04)--002 SKP Version A.
- Environmental Protection Authority (EPA) 2016, *Technical Guidance Terrestrial Fauna Surveys*, Perth.
- Government of WA 2000, *Bush Forever Volume 1: Policies, principles and processes,* Perth.
- Groom, C. 2010, Artificial Hollows for Carnaby's Black Cockatoo: An investigation of the placement, use, monitoring and maintenance requirements of artificial hollows for Carnaby's black cockatoo, Department of Environment and Conservation, Perth.
- Groom, C. 2011, *Plants Used by Carnaby's Black Cockatoo*, Department of Environment and Conservation, Perth.
- Havel, J. J. and Mattiske, E. M. 2000, Vegetation mapping of south-west forest regions of Western Australia, CALMScience, Department of Conservation and Land Management and Environment Australia, Perth.
- Heddle, E. M., Loneragan, O. W. and Havel, J. J. 1980, 'Vegetation Complexes of the Darling System Western Australia', in Department of Conservation and Environment (ed.), Atlas of Natural Resources Darling System Western Australia, Perth.
- Johnstone, R. E., Johnstone, C. and Kirkby, T. 2011, Black Cockatoos on the Swan Coastal Plain: Carnaby's Cockatoo (Calyptorhynchus latirostris), Baudin's Cockatoo (Calyptorhynchus baudinii) and the Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso) on the Swan Coastal Plain (Lancelin– Dunsborough), Western Australia. Studies on distribution, status, breeding, food, movements and historical changes., Department of Planning, Western Australia.
- Johnstone, R. E. and Kirkby, T. 1999, *Food of the Red-tailed Forest Black Cockatoo Calyptorhynchus banksii naso in Western Australia*, Western Australian Naturalist, 22: 167-178.
- Johnstone, R. E. and Storr, G. M. 1998, Handbook of Western Australian Birds. Volume 1 -Non-Passerines (Emu to Dollarbird), Western Australian Museum, Perth.



- Keighery, B. 1994, *Bushland Plant Survey: A guide to plant community survey for the community*, Wildflower Society of WA (Inc), Nedlands.
- Le Roux, C. 2017, Nocturnal roost tree, roost site and landscape characteristics of Carnaby 's Black-Cockatoo (Calyptorynchus latirostris) on the Swan Coastal Plain, Edith Cowan University Research Online.
- Molloy, S., Wood, J., Hall, S., Wallrodt, S. and Whisson, G. 2009, *South West Regional Ecological Linkages Technical Report*, Western Australian Local Government Association and Department of Environment and Conservation, Perth.
- Saunders, D. A. 1980, Food and Movements of the Short-billed Form of the White-tailed Black Cockatoo, Australian Wildlife Research, 7: 257-269.
- Saunders, D. A. 1990, Problems of Survival in an Extentively Cultivated Landscape: the case of Carnaby's Cockatoo <u>Calyptorhynchus funereus latirostris</u>, Biological Conservation, 54: 277-290.
- Shah, B. 2006, Conservation of Carnaby's Black Cockatoo on the Swan Coastal Plain, Western Australia, Birds Australia, Perth.
- Strelein, G., Loewanthal, G. and Davy, A. 2009, *Draft Pre-European vegetation mapping of the Swan Coastal Plain*, Forest Management Branch, Department of Environment and Conservation, Perth.
- Western Australian Local Government Association and Perth Biodiversity Project (WALGA and PBP) 2004, Local Government Biodiversity Planning Guidelines for the Perth Metropolitan Region, Perth.
- Western Australian Museum 2019, WA Museum Checklist of the Terrestrial Vertebrate Fauna of Western Australia, Perth, Western Australia.

7.2 Online references

Department of the Environment (DoEE) 2019a, *Protected Matters Search Tool*, viewed 20 June 2019 https://www.environment.gov.au/epbc/protected-matters-search-tool.

Department of Biodiversity, Conservation and Attractions (DBCA) 2019, *NatureMap*, viewed 20 June 2019 https://naturemap.dpaw.wa.gov.au/.



This page has been left blank intentionally.





Figure 1: Site Location Figure 2: Environmental Features Figure 3: Black Cockatoo Habitat Context Figure 4: Fauna Habitat Figure 5: Black Cockatoo Habitat



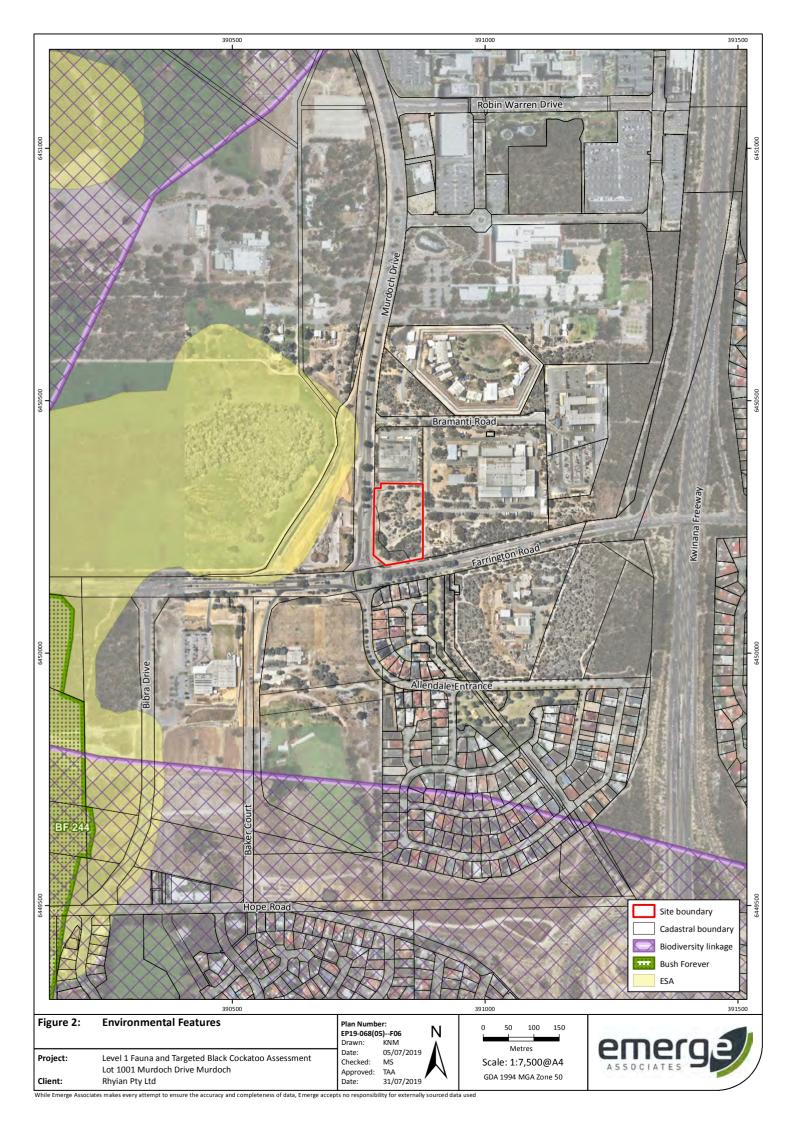
Client:

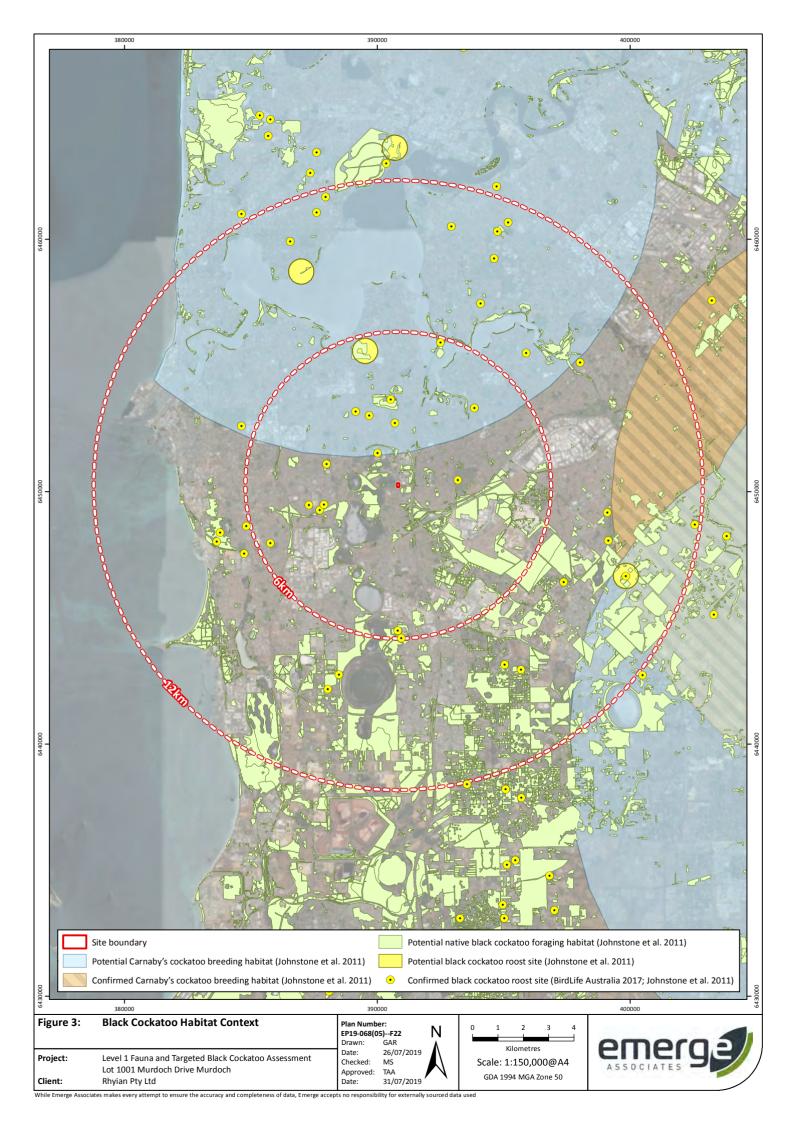
While Emerge A

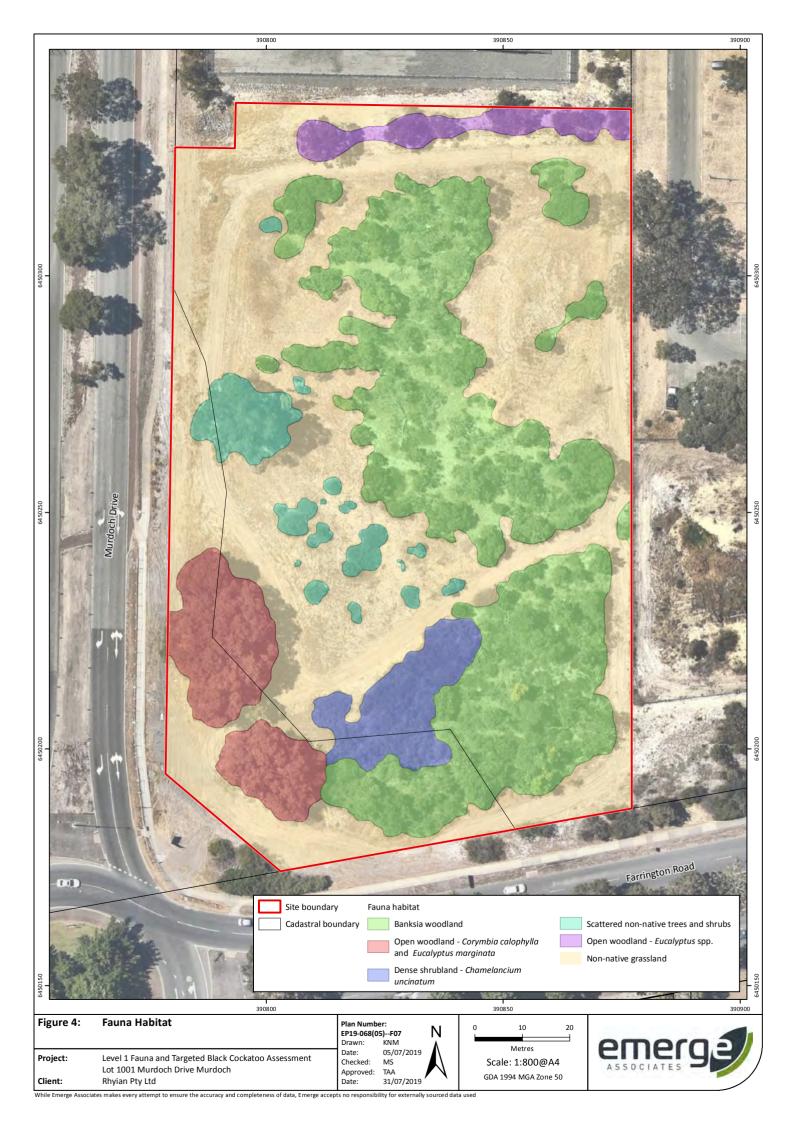
Lot 1001 Murdoch Drive Murdoch Rhyian Pty Ltd es makes every attempt to ensure the accuracy and completeness of data, Emerge accepts no respo

Date: Checked: 05/07/2019 MS Approved: Date: TAA 31/07/2019 ility for exte nally sourced data used

Scale: 1:2,500@A4 GDA 1994 MGA Zone 50















Conservation Significant Fauna

Threatened and priority fauna

Fauna species considered rare or under threat warrant special protection under Commonwealth and/or State legislation. At the Commonwealth level, fauna species can be listed under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). Migratory birds may be recognised under international treaties including:

- Japan Australia Migratory Bird Agreement 1981 (JAMBA)
- China Australia Migratory Bird Agreement 1998 (CAMBA)
- Republic of Korea-Australia Migratory Bird Agreement 2007 (ROKAMBA)
- *Bonn Convention 1979* (The Convention on the Conservation of Migratory Species of Wild Animals).

All migratory bird species listed in the annexes to these bilateral agreements are protected in Australia as 'matters of national environmental significance' (MNES) under the EPBC Act. Fauna species considered 'threatened' pursuant to Schedule 1 of the EPBC Act are assigned categories as outlined in **Table 1**.

Conservation Code	Category			
х	Threatened Fauna –Extinct There is no reasonable doubt that the last member of the species has died.			
EW#	Threatened Fauna –Extinct in the Wild Taxa which are known only to survive in cultivation, captivity or as a naturalised population outside its past range, or taxa which have not been recorded in its known and/or expected habitat despite appropriate exhaustive surveys.			
CR#	Threatened Fauna – Critically Endangered Taxa which are considered to be facing an extremely high risk of extinction in the wild.			
EN#	Threatened Fauna – Endangered Taxa which are considered to be facing a very high risk of extinction in the wild.			
VU#	Threatened Fauna – Vulnerable Taxa which are considered to be facing a high risk of extinction in the wild.			
Migratory#	Migratory Fauna All migratory species that are: (i) native species; and (ii) from time to time included in the appendices to the Bonn Convention; and (b) all migratory species from time to time included in annexes established under JAMBA, CAMBA and ROKAMBA; and All native species from time to time identified in a list established under, or an instrument made under, an international agreement approved by the Minister.			
Ма	Marine Fauna Species in the list established under s248 of the EPBC Act			

Table 1: Definitions of conservation significant fauna species pursuant to the EPBC Act

#matters of national environmental significance (MNES) under the EPBC Act

In Western Australia, fauna taxa may be classed as 'specially protected' under the *Biodiversity Conservation Act 2016* (BC Act) which is enforced by Department of Biodiversity Conservation and Attractions (DBCA). Specially protected fauna species are listed under Schedules 1 to 7 according to their conservation status. The definitions of these Schedules are provided in **Table 2**.

Conservation Code	Definition
CR	Schedule 1 – Critically Endangered Threatened species considered to be facing an extremely high risk of extinction in the wild.
EN	Schedule 2 – Endangered Threatened species considered to be facing a very high risk of extinction in the wild.
VU	Schedule 3 – Vulnerable Threatened species considered to be facing a high risk of extinction in the wild.
EX	Schedule 4 – Presumed extinct Species which have been adequately searched for and there is no reasonable doubt that the last individual has died.
MI	Schedule 5 – Migratory birds protected under an international agreement Birds that are subject to an agreement between the government of Australia and the governments of Japan (JAMBA), China (CAMBA) and The Republic of Korea (ROKAMBA), and the Bonn Convention, relating to the protection of migratory birds.
CD	Schedule 6 – Fauna of special conservation need as conservation dependent fauna Fauna of special conservation need being species dependent on ongoing conservation intervention to prevent it becoming eligible for listing as threatened.
OS	Schedule 7 – Other specially protected fauna. Fauna otherwise in need of special protection to ensure their conservation.

Table 2: Definitions of specially protected fauna schedules under the BC Act.

emerg

Fauna species that may be threatened or near threatened but lack sufficient information to be legislatively listed may be added to the DBCA's *Priority Fauna List* (DBCA 2018). Priority fauna species are considered during State approval processes. Priority fauna categories and definitions are listed in **Table 3**.

Table 3: Definitions of	f priority fauna ca	ategories on DBCA's	Priority Fauna List
		legenes on bbons	

Conservation Code	Category
P1	Priority 1 – Poorly known Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes. Such species are in urgent need of further survey.
Ρ2	Priority 2 – Poorly known Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, e.g. national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes. Such species are in urgent need of further survey.
Ρ3	Priority 2 – Poorly known Species that are known from several locations and the species does not appear to be under imminent threat, or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. Such species are in need of further survey.
Ρ4	 (a) Priority 4 – Rare species Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These species are usually represented on conservation lands. (b) Priority 4 – Near Threatened Species that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable. (c) Priority 4 – Other Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.



Pest fauna

A number of legislative and policy documents exist in relation to weed management at state and national levels. The *Biosecurity and Agriculture Management Act 2007* (BAM Act) is the principle legislation guiding weed management in Western Australia and lists declared pest species. At a national level, pest fauna may be listed as 'Established Pests and Diseases of National Significance' (EPDNS) under the *Australian Pest Animal Strategy (2017-2027) (DoA 2017)*.

Declared Pests

Part 2.3.23 of the BAM Act requires a person must not; "a) keep, breed or cultivate the declared pest; b) keep, breed or cultivate an animal, plant or other thing that is infected or infested with the declared pest; c) release into the environment the declared pest, or an animal, plant or other thing that is infected or infested with the declared pest; or d) intentionally infect or infest, or expose to infection or infestation, a plant, animal or other thing with a declared pest".

Under the BAM Act, all declared pests are assigned a legal status, as described in **Table 4**. Species assigned to the 'declared pest, prohibited - s12' category are placed in one of three control categories, as described in **Table 5**.

The *Biosecurity and Agriculture Management Regulations 2013* specify keeping categories for species assigned to the 'declared pest - s22(2)' category, which relate to the purposes of which species can be kept, as well as the entities that can keep them. The categories are described in **Table 6**.

The Western Australian Organism List (WAOL) provides the status of organisms which have been categorised under the BAM Act (DAFWA 2016).

Category	Description
Declared PestMay only be imported and kept subject to permits. Permit conditions applicable to some sProhibited - s12may only be appropriate or available to research organisations or similarly secure instituti	
Declared Pest s22(2)	Must satisfy any applicable import requirements when imported, and may be subject to an import permit if they are potential carriers of high-risk organisms. They may also be subject to control and keeping requirements once within Western Australia

Table 4: Legal status of declared pest species listed under the BAM Act (DAFWA 2016).

Table 5: Control categories of declared pest species listed under the BAM Act (DAFWA 2016).

Category	Description
C1	Exclusion Not established in Western Australia and control measures are to be taken, including border checks, in order to prevent them entering and establishing in the State.
C2	Eradication Present in Western Australia in low enough numbers or in sufficiently limited areas that their eradication is still a possibility.
C3	Management

emerg

Additional Background Information

Category	Description
	Established in Western Australia but it is feasible, or desirable, to manage them in order to limit their damage. Control measures can prevent a C3 pest from increasing in population size or density or moving from an area in which it is established into an area which currently is free of that pest.

Table 6: Keeping categories of declared pest species listed under the BAM Act (DAFWA 2016).

Category	Description
Prohibited	Can only be kept under a permit for public display and education purposes, and/or genuine scientific research, by entities approved by the state authority.
Exempt	No permit or conditions are required for keeping.
Restricted	Organisms which, relative to other species, have a low risk of becoming a problem for the environment, primary industry or public safety and can be kept under a permit by private individuals.



References

General references

Department of Biodiversity, Conservation and Attractions (DBCA) 2018, *Threatened and Priority Fauna List 15 February 2018*, Perth.

Department of Agriculture (DoA) 2017, Australian Pest Animal Strategy (2017-2027), Canberra.

Literature

Conservation Code	Category
Birds	Johnstone and Storr (1998b), Johnstone and Storr (1998a), Pizzey and Knight (2012), Slater et al. (2003)
Mammals	Menkhorst and Knight (2011), Triggs (2003)
Amphibia	Tyler and Doughty (2009), Bush et al. (2002)
Reptiles	Bush <i>et al.</i> (2002)

Table 1: Standard literature used for identifying fauna species and habitats.

References

Bush, B., Maryan, B., Browne-Cooper, R. and Robinson, D. 2002, *Reptiles and Frogs of the Perth Region*, UWA Press, Crawley.

Johnstone, R. E. and Storr, G. M. 1998a, *Handbook of Western Australian Birds. Volume 2 - Passerines (Blue-Winged Pitta to Goldfinch)*, Western Australian Museum, Perth.

Johnstone, R. E. and Storr, T. 1998b, *Handbook of Western Australian Birds: Volume 1 - Non-passerines (Emu to Dollarbird)*, Western Australian Museum, Perth.

Menkhorst, P. and Knight, F. 2011, *Field guide to the mammals of Australia (Third edition)*, Oxford University Press Australia & New Zealand, Melbourne, VIC, Australia.

Pizzey, G. and Knight, F. 2012, *The Fieldguide to the Birds of Australia*, Harper Collins Publishers, Sydney, Australia.

Slater, P., Slater, P. and Slater, R. 2003, *The Slater Field Guide to Australian Birds*, Reed New Holland, Australia.

Triggs, B. 2003, *Tracks, Scats and Other Traces A Field Guide to Australian Mammals*, Oxford University Press Australia, Melbourne, Victoria.

Tyler, M. J. and Doughty, P. 2009, *Field Guide to Frogs of Western Australia*, Western Australian Museum, Perth, Western Australia.







NatureMap Species Report

Created By Guest user on 20/06/2019

Kingdom Animalia Current Names Only Yes Core Datasets Only Yes Method 'By Circle' Centre 115° 50' 36" E,32° 04' 43" S Buffer 10km

	Name ID	Species Name	Naturalise	d Conse	rvation Code	¹ Endemic To Query Area
1.		??				
2.	24559	Acanthagenys rufogularis (Spiny-cheeked Honeyeater)				
3.		Acanthiza apicalis (Broad-tailed Thornbill, Inland Thornbill)				
4.		Acanthiza chrysorrhoa (Yellow-rumped Thornbill)				
5.		Acanthiza inornata (Western Thornbill)				
6.		Acanthorhynchus superciliosus (Western Spinebill)				
7.	25535	Accipiter cirrocephalus (Collared Sparrowhawk)				
8.	25536	Accipiter fasciatus (Brown Goshawk)				
9.	24282	Accipiter fasciatus subsp. fasciatus (Brown Goshawk)				
10.		Acentrogobius bifrenatus				
11.		Acentrogobius pflaumi				Y
12.		Acercella falcipes				
13.		Acridotheres fuscus				Y
14.		Acridotheres tristis subsp. tristis				
15.	42368	Acritoscincus trilineatus (Western Three-lined Skink)				
16.	25755	Acrocephalus australis (Australian Reed Warbler)				
17.	24831	Acrocephalus australis subsp. gouldi (Australian Reed Warbler)				
18.		Acrocephalus scripaceus				Y
19.	41323	Actitis hypoleucos (Common Sandpiper)			IA	
20.	25544	Aegotheles cristatus (Australian Owlet-nightjar)				
21.		Afurcagobius suppositus				
22.		Akamptogonus novarae				
23.		Aldrichetta forsteri				
24.		Allothereua maculata				
25.		Amblyomma albolimbatum				
26.		Ammotretis elongatus				
27.		Amniataba caudavittata				
28.		Aname mainae				
29.		Aname tepperi				
30.	24310	Anas castanea (Chestnut Teal)				
31.	24312	Anas gracilis (Grey Teal)				
32.	24313	Anas platyrhynchos (Mallard)				
33.		Anas platyrhynchos subsp. domesticus				
34.	24315	Anas rhynchotis (Australasian Shoveler)				
35.	24316	Anas superciliosa (Pacific Black Duck)				
36.		Anguilla australis				
37.	47414	Anhinga novaehollandiae (Australasian Darter)				
38.	44629	Anilios australis				
39.		Anoplocapros lenticularis				
40.	24506	Anous tenuirostris subsp. melanops (Australian Lesser Noddy)			Т	
41.		Anser anser				
42.		Anthochaera carunculata (Red Wattlebird)				
43.	24562	Anthochaera lunulata (Western Little Wattlebird)				
44.		Aploactisoma milesii				
45.		Apogon rueppellii				
46.	24991	Aprasia repens (Sand-plain Worm-lizard)				
47.		Aptychotrema vincentiana				
48.		Apus pacificus (Fork-tailed Swift, Pacific Swift)			IA	
49.	24285	Aquila audax (Wedge-tailed Eagle)				
50.		Aracana aurita				
51.		Aracana ornata				
52.		Arachnura higginsi	·@	partment of Plantings-11		WEETERN
eMap is a collaborative	e project of t	he Department of Biodiversity, Conservation and Attractions and the Western Australian Museum.	ODVERNMENT OF WESTERN AUSTRALIA	partment of Biodiversity, nservation and Attractic	ons WWA	

WESTERN AUSTRALIAN

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Q Area
53.		Araneus cyphoxis			
54.		Araneus eburneiventris			
55.		Araneus senicaudatus			
56.	24208	Arctocephalus forsteri (New Zealand Fur Seal, long-nosed fur-seal)		S	
57.	25557	Ardea garzetta (Little Egret)			
58.	24337	Ardea garzetta subsp. nigripes (Little Egret)			
59.	25558	Ardea ibis (Cattle Egret)			
60.	25559	Ardea intermedia (Intermediate Egret)			
61.	41324	Ardea modesta (great egret, white egret)			
62.	24340	Ardea novaehollandiae (White-faced Heron)			
63.	24341	Ardea pacifica (White-necked Heron)			
64.	25560	Ardea sacra (Eastern Reef Egret, Eastern Reef Heron)			
65.		Arenaria interpres (Ruddy Turnstone)		IA	
66.		Arenigobius bifrenatus			
67.		Argiope protensa			
68.		Argiope trifasciata			
69.		Argyrosomus japonicus			
70.		Arkys walckenaeri			
71.		-			
71. 72.		Arothron hispidus Arripis georgiana			
	05500				
73.		Artamus cinereus (Black-faced Woodswallow)			
74.	24353	Artamus cyanopterus (Dusky Woodswallow)			
75.		Artoria flavimana			
76.		Artoria linnaei			
77.		Artoria taeniifera			
78.		Artoriopsis eccentrica			
79.		Artoriopsis expolita			
80.		Artoriopsis joergi			
81.		Atherinomorus lacunosus			
82.		Atherinomorus vaigiensis			
83.		Atherinosoma wallacei			
84.		Aulohalaelurus labiosus			
85.		Aurecocrypta lugubris			
86.		Austracantha minax			
87.	47713	Austronomus australis (White-striped Free-tailed Bat)			
88.		Aythya australis (Hardhead)			
89.		Backobourkia heroine			
90.		Badumna insignis			
91.		Ballarra longipalpus			
92.		Barnardius zonarius			
93.	2/310	Biziura lobata (Musk Duck)			
94.		Botaurus poiciloptilus (Australasian Bittern)		т	
				I	
95.		Brachyurophis fasciolatus subsp. fasciolatus (Narrow-banded Shovel-nosed Snake)			
96.		Brachyurophis semifasciatus (Southern Shovel-nosed Snake)			
97.		Burhinus grallarius (Bush Stone-curlew)			
98.		Cacatua galerita (Sulphur-crested Cockatoo)			
99.		Cacatua pastinator (Western Long-billed Corella)			
00.	24724	Cacatua pastinator subsp. pastinator (Muir's Corella, Muir's Corella (Western Corella		S	
		SW WA))		Ũ	
01.	25715	Cacatua roseicapilla (Galah)			
02.	25716	Cacatua sanguinea (Little Corella)			
03.	24729	Cacatua tenuirostris (Eastern Long-billed Corella)	Y		
04.	25598	Cacomantis flabelliformis (Fan-tailed Cuckoo)			
05.	24427	Cacomantis flabelliformis subsp. flabelliformis (Fan-tailed Cuckoo)			
06.		Cacomantis pallidus (Pallid Cuckoo)			
07.		Calidris acuminata (Sharp-tailed Sandpiper)		IA	
08.		Calidris alba (Sanderling)		IA	
09.		Calidris canutus (Red Knot, knot)		IA	
10.		Calidris canutus subsp. rogersi (Red Knot (north-eastern Siberia))		Т	
11.		Calidris canadas subsp. (Gers (Neu Not (Not Neustern Gibena)) Calidris ferruginea (Curlew Sandpiper)		Т	
12.		Calidris relanotos (Pectoral Sandpiper)		IA	
12.					
		Calidris minuta (Little Stint)		14	
14.	24/08	Calidris ruficollis (Red-necked Stint)		IA	
	o 1== 1	Calidris sp.			
		Calidris subminuta (Long-toed Stint)		IA	
16.		Calidris tenuirostris (Great Knot)		Т	
16. 17.	24790				V
15. 16. 17. 18.	24790	Callevophthalmus lividus			Y
16. 17. 18. 19.	24790	Callogobius mucosus			Ŷ
16. 17. 18.	24790				Y Y
16. 17. 18. 19.		Callogobius mucosus			

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Quei Area
122.	24731	Calyptorhynchus banksii subsp. naso (Forest Red-tailed Black Cockatoo)		т	
123.	24733	Calyptorhynchus baudinii (Baudin's Cockatoo, White-tailed Long-billed Black		т	
		Cockatoo)		ľ	
124.	24734	Calyptorhynchus latirostris (Carnaby's Cockatoo, White-tailed Short-billed Black		т	
105	10.100	Cockatoo)			
125.	48400	Calyptorhynchus sp. (white-tailed black cockatoo)		Т	
126. 127.		Cantherhines sp.			
127.		Carassius auratus Carcharhinus leucas			
120.		Carcharhinus ibucas			
130.		Carcharhinus sp.			
131.	34031	Carcharodon carcharias (Great White Shark)		т	
132.		Carduelis carduelis (Goldfinch, European Goldfinch)	Y	•	
133.		Carduelis chloris			Y
134.	25335	Caretta caretta (Loggerhead Turtle)		т	
135.		Catharacta skua			Y
136.		Cercophonius granulosus			
137.		Cercophonius sulcatus			
138.		Chaetodermis penicilligera			
139.	24186	Chalinolobus gouldii (Gould's Wattled Bat)			
140.	24187	Chalinolobus morio (Chocolate Wattled Bat)			
141.		Charadrius dubius (Little Ringed Plover)		IA	
142.		Charadrius leschenaultii (Greater Sand Plover)		т	
143.	24377	Charadrius ruficapillus (Red-capped Plover)			
144.		Cheilodactylus gibbosus			
145.		Cheilopogon olgae?			Y
146.		Cheiracanthium nervosum			Y
147.		Chelidonichthys kumu			
148.		Chelodina colliei (South-western Snake-necked Turtle)		_	
149.		Chelonia mydas (Green Turtle)		Т	
150.		Chenonetta jubata (Australian Wood Duck, Wood Duck)			
151. 152.		Cheramoeca leucosterna (White-backed Swallow)			
152.	33939	Cherax cainii (Marron) Cherax destructor			
153.		Cherax desiración			
155.		Cherax quinquecarinatus			
156.		Cherax sp.			
157.	41332	Chlidonias leucopterus (White-winged Black Tern, white-winged tern)		IA	
158.		Christinus marmoratus (Marbled Gecko)			
159.		Chroicocephalus novaehollandiae			
160.	25601	Chrysococcyx lucidus (Shining Bronze Cuckoo)			
161.	24432	Chrysococcyx lucidus subsp. plagosus (Shining Bronze Cuckoo)			
162.	24288	Circus approximans (Swamp Harrier)			
163.	24289	Circus assimilis (Spotted Harrier)			
164.		Cirrhimuraena calamus			
165.	24774	Cladorhynchus leucocephalus (Banded Stilt)			
166.		Cleidopus gloriamaris			
167.		Clynotis albobarbatus			
168.		Cnidoglanis macrocephalus			
169.		Colluricincla harmonica (Grey Shrike-thrush)			
170.	24399	Columba livia (Domestic Pigeon)	Y		
171.	05505	Contusus brevicaudus			
172.	25568	Coracina novaehollandiae (Black-faced Cuckoo-shrike)			
173.		Cormocephalus aurantilipes			
174.		Cormocephalus novaehollandiae			
175. 176.	24446	Cormocephalus rubriceps Corvus bennetti (Little Crow)			
176.		Corvus coronoides (Australian Raven)			
177.		Corvus coronoides (Australian Raven) Corvus coronoides subsp. perplexus (Australian Raven)			
179.		Corvus colonoides subsp. perpiexus (Australian Raven) Corvus splendens (House Crow)			
180.	2.410	Corvus splendens subsp. protegatus			
181.	24671	Coturnix pectoralis (Stubble Quail)			
182.		Coturnix ypsilophora (Brown Quail)			
183.		Cracticus nigrogularis (Pied Butcherbird)			
184.		Cracticus tibicen (Australian Magpie)			
185.		Cracticus tibicen subsp. dorsalis (White-backed Magpie)			
186.		Cracticus torquatus (Grey Butcherbird)			
187.		Craterocephalus mugiloides			
188.	25398	Crinia georgiana (Quacking Frog)			
189.	25399	Crinia glauerti (Clicking Frog)			
			, feint ,	ent of Biodiversity,	WESTER

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
190.		Crinia insignifera (Squelching Froglet)			
191.	25401	Crinia pseudinsignifera (Bleating Froglet)			
192.		Cristiceps australis			
193.		Cristiceps sp.			
194.		Crustulina bicruciata			
195.	30893	Cryptoblepharus buchananii			
196.	25020	Cryptoblepharus plagiocephalus			
197.		Cryptoerithus quobba			
198.	30899	Ctenophorus adelaidensis (Southern Heath Dragon, Western Heath Dragon)			
199.		Ctenotus australis			
200.	25039	Ctenotus fallens			
201.	25040	Ctenotus gemmula (Jewelled South-west Ctenotus (Swan Coastal Plain subpop P3), skink)			
202.	25047	Ctenotus impar			
203.	25087	Cyclodomorphus celatus (Western Slender Blue-tongue)			
204.		Cyclosa trilobata			
205.	24322	Cygnus atratus (Black Swan)			
206.	24323	Cygnus olor (Mute Swan)	Y		
207.		Cypselurus sp.			
208.		Cyrtophora parnasia			
209.	30901	Dacelo novaeguineae (Laughing Kookaburra)	Y		
210.		Dactylopus dactylopus			
211.		Daphnia carinata			
212.		Daphoenositta chrysoptera (Varied Sittella)			
213.		Daphoenositta chrysoptera subsp. pileata (Varied Sittella, Black-capped Sitella)			
214.		Daption capense (Cape Petrel)		_	
215.		Dasyurus geoffroii (Chuditch, Western Quoll)		Т	
216.		Delma fraseri (Fraser's Legless Lizard)			
217.		Delma grayii			
218.		Demansia psammophis (Yellow-faced Whipsnake)			
219. 220.		Demansia psammophis subsp. reticulata (Yellow-faced Whipsnake)			
220.	24324	Dendrocygna arcuata (Wandering Whistling Duck, Chestnut Whistling Duck) Dermatopsis sp.			
221.	25346	Dermochelys coriacea (Leatherback Turtle)		т	
223.		Dicaeum hirundinaceum (Mistletoebird)		1	
224.	20001	Dingosa murata			
225.		Dingosa serrata			
226.		Diodon nicthemerus			
227.	30836	Diomedea exulans subsp. exulans (Snowy Albatross)		Т	
228.	44654	Diplodactylus lateroides (Speckled Stone Gecko)			
229.		Dipulus caecus			
230.	24470	Dromaius novaehollandiae (Emu)			
231.		Echeneis naucrates			
232.	25096	Egernia kingii (King's Skink)			
233.	25100	Egernia napoleonis			
234.		Egretta garzetta			
235.		Egretta novaehollandiae			
236.		Elanus axillaris			
237.		Elanus caeruleus (Black-shouldered Kite)			
238.		Elanus caeruleus subsp. axillaris (Australian Black-shouldered Kite)			
239.	25250	Elapognathus coronatus (Crowned Snake)			
240.	1700-	Elops hawaiensis			
241.	47937	Elseyornis melanops (Black-fronted Dotterel)			
242. 243.		Engraulis australis			V
243. 244.		Enoplognatha bidens			Y
244. 245.		Enoplosus armatus Eodelena convexa			
245. 246.		Eodelena lapidicola			
247.		Eolophus roseicapillus			
247.		Epinephelus sp.			
249.	24567	Ephianura albifrons (White-fronted Chat)			
250.		Eriophora biapicata			
251.		Ero aphana			
252.		Erythracarus decoris			
253.	24379	Erythrogonys cinctus (Red-kneed Dotterel)			
254.		Ethmostigmus rubripes			
255.	24368	Eurostopodus argus (Spotted Nightjar)			
256.	25591	Eurystomus orientalis (Dollarbird)			
257.	25621	Falco berigora (Brown Falcon)			
258.	24471	Falco berigora subsp. berigora (Brown Falcon)			
			Benertmant of	Biodiversity.	WEGTERNI

NatureMap is a collaborative project of the Department of Biodiversity, Conservation and Attractions and the Western Australian Museum.

Department of Biodiversity, Conservation and Attractions

WESTERN AUSTRALIAN



NatureMap Mapping Western Australia's biodiversity

	warne ID	Species Name	Naturalised	Conservation Code	Endemic To C Area
259.	25622	Falco cenchroides (Australian Kestrel, Nankeen Kestrel)			
260.		Falco longipennis (Australian Hobby)			
261.		Falco longipennis subsp. longipennis (Australian Hobby)			
262.		Falco peregrinus (Peregrine Falcon)		S	
263.		Falco peregrinus subsp. macropus (Australian Peregrine Falcon)		S	
264.	24189	Falsistrellus mackenziei (Western False Pipistrelle, Western Falsistrelle)		P4	
265.		Favonigobius lateralis			
266.	24041	Felis catus (Cat)	Y		
267.		Filicampus tigris			
268.		Fistularia sp.			
269.		Fulica atra (Eurasian Coot)			
270.		Fulica atra subsp. australis (Eurasian Coot)			
271.		Fulmarus glacialoides (Southern Fulmar)			
272.	30916	Funambulus pennanti (Indian Palm Squirrel)	Y		
273.	0 40 0 0	Galaxias maculatus			
274.	34028	Galaxias occidentalis (Western Minnow)			
275.		Galeorhinus galeus			
276.		Gallinago hardwickii (Latham's Snipe, Japanese snipe)		IA	
277.		Gallinago stenura (Pin-tailed Snipe)		IA	
278.		Gallinula tenebrosa (Dusky Moorhen)			
279.		Gallinula tenebrosa subsp. tenebrosa (Dusky Moorhen)			
280.		Gallirallus philippensis (Buff-banded Rail)			
281.	24765	Gallirallus philippensis subsp. mellori (Buff-banded Rail)			
282.		Gallus gallus			
283.	42314	Gavicalis virescens (Singing Honeyeater)			
284.		Gea theridioides			
285.		Gehyra variegata			
286.	47954	Gelochelidon nilotica (Gull-billed Tern)		IA	
287.		Geogarypus taylori			
288.	24401	Geopelia cuneata (Diamond Dove)			
289.		Gerres subfasciatus			
290.	25530	Gerygone fusca (Western Gerygone)			
291.	24271	Gerygone fusca subsp. fusca (Western Gerygone)			
292.		Girella zebra			
293.	47962	Glyciphila melanops (Tawny-crowned Honeyeater)			
294.		Gonorynchus greyi			
295.	24443	Grallina cyanoleuca (Magpie-lark)			
296.		Gymnapistes marmoratus			
297.		Gymnothorax woodwardi			
298.	25627	Haematopus fuliginosus (Sooty Oystercatcher)			
299.	24487	Haematopus longirostris (Pied Oystercatcher)			
300.	24293	Haliaeetus leucogaster (White-bellied Sea-Eagle)			
301.	24295	Haliastur sphenurus (Whistling Kite)			
302.	24689	Halobaena caerulea (Blue Petrel)			
303.	25410	Heleioporus eyrei (Moaning Frog)			
304.		Hemicloea insidiosa			Y
305.	25232	Hemidactylus frenatus (Asian House Gecko)	Y		
306.	25119	Hemiergis quadrilineata			
307.		Henicops dentatus			
308.	24961	Heteronotia binoei (Bynoe's Gecko)			
309.	47965	Hieraaetus morphnoides (Little Eagle)			
310.	25734	Himantopus himantopus (Black-winged Stilt)			
311.	24775	Himantopus himantopus subsp. leucocephalus (Black-winged Stilt)			
312.		Hippocampus elongatus			
313.		Hippocampus sp.			
314.	24491	Hirundo neoxena (Welcome Swallow)			
315.		Histrio histrio			
316.		Hogna crispipes			
317.		Holconia westralia			
318.	24215	Hydromys chrysogaster (Water-rat, Rakali)		P4	
319.	25366	Hydrophis elegans (Elegant Seasnake, Bar-bellied Seasnake)			
320.	43384	Hydrophis platurus (Yellow-bellied Seasnake)			
321.	48587	Hydroprogne caspia (Caspian Tern)		IA	
322.		Hyperlophus vittatus			
323.		Hyporhamphus regularis			
324.		Idiommata blackwalli			
		Idiosoma hirsutum			
325.	48935	Idiosoma sigillatum (Swan Coastal Plain shield-backed trapdoor spider)		P3	
325. 326.	40000				
	-10000	Idiotropiscis australe?			
326.		Idiotropiscis australe? Isoodon fusciventer (Quenda, southwestern brown bandicoot)		P4	

	Name ID	Species Name	Naturalis	sed Conservation Code	¹ Endemic To Query Area
329.		Isopeda leishmanni			, nou
330.	47975	Ixobrychus dubius (Australian Little Bittern)		P4	
331.		Ixodes australiensis			
332.		Kangarosa ludwigi			
333.		Kangarosa properipes			
334.		Lagocephalus sceleratus			
335.		Lampona brevipes			
336.		Lampona cylindrata			
337.		Lanius tigrinus (Tiger Shrike)			Y
338.	25637	Larus novaehollandiae (Silver Gull)			
339.		Larus novaehollandiae subsp. novaehollandiae (Silver Gull)			
340.	25638	Larus pacificus (Pacific Gull)			
341.		Latrodectus hasseltii			
342.	33982	Leioproctus contrarius (a short-tongued bee)		P3	
343.		Lepidoblennius marmoratus			
344.	25128	Lerista christinae			
345.	25131	Lerista distinguenda			
346.	25133	Lerista elegans			
347.	25147	Lerista lineata (Perth Slider, Lined Skink)		P3	
348.	25148	Lerista lineopunctulata			
349.	25165	Lerista praepedita			
350.		Leucauge dromedaria			Y
351.	25005	Lialis burtonis			
352.		Lichmera indistincta (Brown Honeyeater)			
353.		Lichmera indistincta subsp. indistincta (Brown Honeyeater)			
354.		Limnodynastes dorsalis (Western Banjo Frog)			
355.		Limosa lapponica (Bar-tailed Godwit)		IA	
356.		Limosa limosa (Black-tailed Godwit)		IA	
357.		Limosa limosa subsp. melanuroides (Black-tailed Godwit)			
				IA	
358.		Litoria adelaidensis (Slender Tree Frog)			
359.		Litoria moorei (Motorbike Frog)			
360.	25683	Lonchura castaneothorax (Chestnut-breasted Mannikin)			
361.		Longepi woodman			
362.		Lophoictinia isura			
363.		Lycosa gilberta			
364.		Lycosa godeffroyi			
365.		Lycosa lacertosa			
366.	24690	Macronectes giganteus (Southern Giant Petrel)		IA	
367.	24132	Macropus fuliginosus (Western Grey Kangaroo)			
368.	24326	Malacorhynchus membranaceus (Pink-eared Duck)			
369.	25651	Malurus lamberti (Variegated Fairy-wren)			
370.	25654	Malurus splendens (Splendid Fairy-wren)			
371.	24583	Manorina flavigula (Yellow-throated Miner)			
372.		Maratus pavonis			
373.		Megalaspis cordyla			
374.	25758	Megalurus gramineus (Little Grassbird)			
375.		Melanodryas cucullata (Hooded Robin)			
376.		Melithreptus brevirostris (Brown-headed Honeyeater)			
377.		Melithreptus chloropsis (Western White-naped Honeyeater)			
378.		Melopsittacus undulatus (Budgerigar)			
379.		Menetia grevii			
379.		Merops ornatus (Rainbow Bee-eater)			
380.	24090	Merops ornatus (Rainbow Bee-eater) Metavelifer multiradiatus			
382.		Meuschenia freycineti			
383.	05000	Microcarbo melanoleucos			
384.		Microeca fascinans (Jacky Winter)			
385.	25542	Milvus migrans (Black Kite)			
386.		Missulena granulosa			
387.		Missulena occatoria			
388.		Mituliodon tarantulinus			
389.		Mitzoruga insularis			
390.		Molycria vokes			
391.		Monacanthus chinensis			
392.	25191	Morethia lineoocellata			
393.	25192	Morethia obscura			
394.	48008	Morus serrator (Australasian Gannet)			
395.		Mugil cephalus			
396.	24223	Mus musculus (House Mouse)	Y		
397.		Mustela putorius (European Polecat, Ferret)	Y		
398.		Myiagra inquieta (Restless Flycatcher)			
			1.500	Department of Biodiversity,	MESTERN
ap is a collaborat	ive project of t	he Department of Biodiversity, Conservation and Attractions and the Western Australian Museum.	OUVERNMENT OF WESTERN AUSTRALIA	Conservation and Attractions	AUSTRAL MUSEUM

NatureMap Mapping Western Australia's biodiversity

	Name ID	Species Name	Naturalis	ed Conservation Code	¹ Endemic To Quer Area
399.		Myliobatis australis			
400.	25420	Myobatrachus gouldii (Turtle Frog)			
401.	24146	Myrmecobius fasciatus (Numbat, Walpurti)		Т	
402.		Nannoperca vittata			
403.	25248	Neelaps bimaculatus (Black-naped Snake)			
404.	25249	Neelaps calonotos (Black-striped Snake, black-striped burrowing snake)		P3	
405.		Nematalosa erebi			
406.		Nematalosa vlaminghi			
407.	25426	Neobatrachus pelobatoides (Humming Frog)			
408.	24738	Neophema elegans (Elegant Parrot)			
409.	24739	Neophema petrophila (Rock Parrot)			
410.		Neophoca cinerea (Australian Sea-lion)		т	
411.		Nephila edulis		•	
412.		Nicodamus mainae			
413.	25747	Ninox connivens (Barking Owl)			
414.				D4	
		Notamacropus eugenii subsp. derbianus (Tammar Wallaby, Tammar)		P4	
415.		Notamacropus irma (Western Brush Wallaby)		P4	
416.	25252	Notechis scutatus (Tiger Snake)			
417.		Notiasemus glauerti			
418.		Novakiella trituberculosa			
419.		Numenius madagascariensis (Eastern Curlew)		Т	
420.		Numenius phaeopus (Whimbrel)		IA	
421.		Nycticorax caledonicus (Rufous Night Heron)			
422.	24194	Nyctophilus geoffroyi (Lesser Long-eared Bat)			
423.	24742	Nymphicus hollandicus (Cockatiel)			
424.		Ocrisiona leucocomis			
425.	24407	Ocyphaps lophotes (Crested Pigeon)			
426.		Odax cyanomelas			
427.		Oecobius navus			
428.		Ommatoiulus moreleti			
429.		Ommatoiulus moreletii			
430.		Ophisurus serpens			
431.		Orectolobus ornatus			
432.	2/085	Oryctolagus cuniculus (Rabbit)	Y		
433.		Otus sunia (Oriental Scops Owl)			V
434.	40040	Oxidus gracilis			I
434.	24220	-		P4	
		Oxyura australis (Blue-billed Duck)		P4	
436.		Pachycephala rufiventris (Rufous Whistler)			
437.		Pachycephala rufiventris subsp. rufiventris (Rufous Whistler)			
438.		Pachyptila belcheri (Slender-billed Prion)			
439.		Pachyptila desolata (Antarctic Prion)			
440.		Pachyptila salvini (Salvin's Prion)			
441.		Pachyptila turtur (Fairy Prion)			
442.	24697	Pachyptila vittata (Broad-billed Prion)			
443.		Pagrus auratus			
444.	48591	Pandion cristatus (Osprey, Eastern Osprey)		IA	
445.		Papillogobius punctatus			
446.		Parablennius postoculomaculatus			
447.		Parablennius tasmanianus			
448.		Paralamyctes cammooensis			Y
449.	25253	Parasuta gouldii			
450.		Pardalotus punctatus (Spotted Pardalote)			
451.		Pardalotus punctatus subsp. punctatus (Spotted Pardalote)			
452.		Pardalotus striatus (Striated Pardalote)			
453.		Parequula melbournensis			
454.		Parma mccullochi			
455.	25687	Passer domesticus (House Sparrow)	Y		
455. 456.			Y Y		
	24042	Passer montanus (Eurasian Tree Sparrow)	Ŷ		
457. 459		Pediana occidentalis			
458.		Pegasus volitans			
459.		Pelates sexlineatus			
460.	24648	Pelecanus conspicillatus (Australian Pelican)			
461.		Pelsartia humeralis			
462.		Pempheris sp.			
463.	48060	Petrochelidon ariel (Fairy Martin)			
464.	48061	Petrochelidon nigricans (Tree Martin)			
465.	48066	Petroica boodang (Scarlet Robin)			
466.	24659	Petroica goodenovii (Red-capped Robin)			
467.	24663	Phaethon rubricauda (Red-tailed Tropicbird)		P4	
468.		Phalacrocorax carbo (Great Cormorant)			
		. /	× (iii) ×		
				epartment of Biodiversity,	WESTER

NatureMap Mapping Western Australia's biodiversity

440. 2468 Palatocours measures (Lat Back Acad Commany) 471. 2468 Palatocours measures (Lat Back Commany) 472. 2469 Palatocours winus (Pod Commany) 473. 2569 Palatocours winus (Pod Commany) 474. 2569 Palatocours winus (Pod Commany) 475. 2569 Palatocours winus (Pod Commany) 476. 2468 Palatocours winus (Pod Commany) 477. 2569 Palatocours winus (Pod Commany) 478. Palato column Excursion) Palatocours winus (Pod Commany) 478. Palatocours winus (Pod Commany) Image Column Excursion) 479. Palato column Excursion) Image Column Excursion) 470. Palato column Excursion) Image Column Excursion) 471. Palato column Excursion) Image Column Excursion) 482. 4209 Phylotocours meanitos (Pod Commany) Image Column Excursion) 484. 4209 Phylotocours meanitos (Pod Commany) Image Column Excursion) 484. 4209 Phylotocours meanitos (Pod Commany) Image Column Excursion)		¹ Endemic To Quer Area
47. 2466 Plankancoccas unios, mésochoso (Luite Plad Comman) 47. 2498 Plankancoccas (unios Ubela, Playcoloso (Plad Comman) 47. 2498 Plankancoccas (unios Ubela, Playcoloso (Plad Comman) 47. 2490 Plankancoccas (unios Ubela, Playcoloso (Plad Comman) 47. 2400 Plankancoccas (unios Ubela, Playcoloso (Plad Comman) 47. 2400 Plankanchu para degras (Dui, Newe) 47. Plankanchu para degras (Dui, Newe) 47. Plankanchu para degras (Dui, Newe) 47. Playdo Play degras (Dui, Newe) 47. Playdo Play degras (Dui, Newe) 48. 2403 Playdory in consenhalmatic (New Halund Horospeater) 48. 2404 Playdory in consenhalmatic (New Halund Horospeater) 49. Playdory in consenhalmatic (New Halund Horospeater) 49. Playdor in consenhalmatic (New Halund Horospeater) 49. <t< td=""><td></td><td></td></t<>		
4/2 2467 Plastecocore sublication (Linke Elask Commond) 474 2468 Phalbecocore sharpages 475 Phalbecocore sharpages 476 Phalbecocore sharpages 477 2557 Page objects (Ersish Brocenersing) 478 Phalbecocore sharpages 479 2480 Phalpe objects (Ersish Brocenersing) 471 2480 Phalbecocore sharpages 473 2480 Phalbecocore sharpages 473 2480 Phalbecocore sharpages 473 2480 Phalbecocore sharpages 473 2480 Phalbecoche conserving 474 2480 Phalbecoche conserving 475 Phalbecoche conserving Image 476 Phalbecoche conserving Image 476 Phalbecoche conserving Image 476 Phalbecoche conserving Image 476 Phalbecoche conserving Image 477 Phalbecoche conserving Image 478 2481 Phalbecoche consetanoconserving <		
473 2608 Phalocoroox varies (Plan Common) 474 2408 Phalocoroo harpagos 475 2404 Phago calcopera (Common Bernzewing) 478 2404 Phago calcopera (Common Bernzewing) 478 2403 Phago calcopera (Common Bernzewing) 478 2403 Phago calcopera (Eucli (Newe) 478 Phago calcopera (Eucli (Newe)		
414.2488Plakeors hypokeos (Pad Cornorant)476.2480Phage colstapper (Cornorant Brazewing)477.2588Planes alson kongio analacia478.2481Planes alson kongio analacia479.2481Planes alson kongio analacia471.2481Planes alson kongio analacia472.2481Planes alson kongio analacia473.2481Planes alson kongio analacia473.2481Planes alson kongio analacia474.Planes alson kongio analacia475.Planes alson kongio analacia478.Planes analacia478.Planes analacia478.Planes analacia478.Planes analacia479.Planes analacia479.Planes analacia479.Planes analacia479.Planes analacia (kasta fin Reselle)470.Planes analacia (kasta fin Reselle)471.Planes analacia (kasta fin Reselle)472.Planes analacia (kasta fin Reselle)473.Planes analacia (kasta fin Reselle)474.Planes analacia (kasta fin Reselle)475.Planes analacia (kasta fin Reselle)474.Planes analacia (kasta fin Reselle)475.Planes analacia (kasta fin Reselle)476.Planes analacia (kasta fin Reselle)477.Planes analacia (k		
475. Plantscience langages 476. 2409 Plage schepping (Common Bruzzewing) 477. 2490 Plage schepping (Darmon Bruzzewing) 478. Phologeneogene andeka 480. Phologeneogene andeka 481. Phologeneogene andeka 482. 4400 483. 4401 484. 24441 485. Phologeneous camberlanderais 486. Phologeneous camberlanderais 487. 24421 488. 24441 488. 24441 488. 24441 488. 24441 489. 2452 480. 25500 481. 25500 481. 25500 482. 24521 483. 24532 484. 24532<		
476.2480Phage selacing/ine (Carmon Borazening)477.25857Phage selacin fanza Borazening)478.Phage selacin fanza Borazening)479.24802Phanzahus pagna (Pali, newe)471.24802Pholos prohonico longiconductir473.24802Pholos prohonico longiconductir473.48011Phylosopa selacing (May Boragon)473.48011Phylosopa selacing (May Boragon)473.48011Phylosopa selacing (May Boragon)473.48011Phylosopa selacing (May Boragon)474.Pholos prohonica selacing (May Boragon)475.Pholos prohonica selacing (May Boragon)476.Pholos prohonica selacing (May Boragon)477.Pholos prohonica (May Boragon)478.2442Phalesensa prono selacing (May Boragon)479.Phalesensa prono selacing (May Boragon)470.24442Phalesensa prono selacing (May Boragon)471.24712Phalesensa prono selacing (May Boragon)472.24747Phalesensa prono selacing (May Boragon)473.24712Phalesensa prono selacing (May Boragon)474.24759Phalesensa prono selacing (May Boragon)475.24719Phalesensa prono selacing (May Boragon)476.24709Pholosensa prohonica (May Boragon)477.Phalesensa prono selacing (May Boragon)478.24709Pholosensa479.Pholosensa479.Pholosensa479.Pholosensa479.Pholosena		
477. 2587 Pinas alignas infonds Diracewing 478. Pinatacowa ingiconductor 478. Pinatacowa ingiconductor 478. Pinatacowa ingiconductor 478. Pinatacowa ingiconductor 478. Pinotacowa indika 481. Pinoganegona indika 482. 4303 483. 4401 484. 24069 9 Pilytöptyty fantakon indika 485. Pinktytöytytä indika 486. 24041 1000 Pinktytöytytä indika 487. Pinktytöytä indika 488. 24042 212. Pinktytöytä indika 488. 24042 212. Pinktytöytä indika 488. 24042 212. Pinktytöytä indika 483. 24042 212. Pinktytöytä indika 484. 24152 2144. Pinktytöytä indika 485. 24162 2142. Pinktytöytäytää 2143. P		Y
478. 24802 Philosophano, longicon (Mer, reeve) 479. 24803 Philosophano, longicon (Mer, reeve) 481. Philosophano, longicon (Mer, Verkel) Image (Mer, Verkel) 482. 4333 Philosophano, longicon (Mer, Verkel) Image (Mer, Verkel) 483. 4497 Philosophano, longicon (Mer, Verkel) Image (Mer, Verkel) 484. 2481 Philosophano, longicon (Mer, Verkel) Image (Mer, Verkel) 485. Philosophano, longicon (Mer, Verkel) Image (Mer, Verkel) Image (Mer, Verkel) 486. Philosophano, longicon (Mer, Verkel) Image (Mer, Verkel) Image (Mer, Verkel) 487. Philosophano, longicon (Mer, Nogel) Image (Mer, Verkel) Image (Mer, Verkel) 488. 2484 Phalono, longicon (Mer, Nogel) Image (Mer, Verkel) Image (Mer, Verkel) 489. 2484 Phalono, somain, Loutstain Regrach, Ringrach, Ringra		
478 Parasterior forgéconductor 478 Paroles prisangent (util, reve) 478 Pholes prisangent (util, reve) 478 Panagent (util, reve) 478 Panagent (util, reve) 479 Pholes prisangent (util, reve) 470 Pholes prisangent (util, reve) 471 Pholes prisangent (util, reve) 472 Pholes prisangent (util, reve) 473 Pholes prisangent (reve) 474 Pholes prisangent (reve) 475 Pholes prisangent (reve) 476 Pholes prisangent (reve) 477 Pholes prisangen (reve) 478 Pholes pris		
479.2480.2Photos priore (uff, rever)481.Photos priore lange (uff, freewer)482.3433Phytopary accurate lange (uff, freewer)483.4417Phytopary accurate lange (uff, freewer)484.2468Phytopary accurate lange (uff, freewer)485.Phytopary accurate lange (uff, freewer)486.Phytopary accurate lange (uff, freewer)487.Phatee lange (uff, freewer)488.2444.Plantee lange (uff, freewer)489.2442.Plantee lange (uff, freewer)481.2442.Plantee lange (uff, freewer)483.2443.Plantee lange (uff, freewer)484.2457.Plantee lange (uff, freewer)485.2444.Plantee lange (uff, freewer)486.2572.Planteensite sate, scientific sate, freewer (uff, freewer)487.2572.Planteensite sate, scientific sate, freewer (uff, freewer)488.2483.Planteensite sate, scientific sate, freewer (uff, freewer)489.2483.Planteensite sate, scientific sate, freewer)489.2483.Planteensite (uff, freewer)500.2570.Pototage actists uff, freewer)501.2471.Planteensite (uff, freewer)502.2571.Pototage actists uff, freewer)503.2483.Planteensite (uff, freewer)504.2571.Pototage actists uff, freewer)505.2470.Pototage actists uff, freewer)506.2481.Pototage actists uff, freewer)507.Potota		
481 Physionpoint seques (Lady Sea Dragon) 481 4030 Physionpoint seques (Lady Sea Dragon) 482 4030 Physionpoint seques (Lady Sea Dragon) 483 4010 Physionpoint seques (Lady Sea Dragon) 484 4026 Physionpoint seques (Lady Sea Dragon) 485 Physionpoint seques (Lady Sea Dragon) 486 Physionpoint seques (Lady Sea Dragon) 487 Parla Dragon Sea Dragon (Lady Sea Dragon) 488 Parla Dragon Sea Dragon (Lady Sea Dragon) 488 Parla Dragon Sea Dragon (Lady Sea Dragon) 489 Parla Dragon Sea Dragon (Lady Sea Dragon) 480 Dragon Sea Dragon (Lady Sea Dragon) 481 Dragon Sea Dragon (Lady Sea Dragon) 482 Dragon Sea Dragon (Lady Sea Dragon) 483 Dragon Sea Dragon (Lady Sea Dragon) 484 Parla Dragon (Lady Sea Dragon) 485 Dragon Dragon (Lady Sea Dragon) 486 Parla Dragon (Lady Sea Dragon) 487 Dragon Dragon (Lady Sea Dragon) 488 Parla Dragon (Lady Sea Dragon) 489 Parla Dragon Dragon (Lady Sea Dragon) 480 Dragon Dragon Dragon (Lady Sea Dragon) 481 Dragon Dragon Dragon Dragon Dragon Dragon (Lady Sea Dragon) 582 Parla Dragon Dragon Dragon Dragon	IA	
441 Pripspappongenume 442 3403 Physiophysis angle (Mahe-checked Honeyeater) 443 4437 Physiophysis angle (Mahe-checked Honeyeater) 444 2458 Physiophysis anaiolatus Image (Mahe-checked Honeyeater) 445 Physiophysis anaiolatus Image (Mahe-checked Honeyeater) 448 2441 Platesenbandmahasia Image (Mahe-Checked Platesend PlatesendPlatesend PlatesendPlatesend Platesend Platesen		
442 3433 Physical arus eques (a why Sea Dragon) 443 4401 Physical problem (while checked honeyoater) 444 4269 Physical problem (while checked honeyoater) 445 Physical problem (while checked honeyoater) 446 Physical problem (while checked honeyoater) 447 Porta cum before/ensis 448 2441 Plastale favines (Yellow-billed Spoonbil) 449 Parks 2441 17272 Plastale and project problem (Sociem Rosalin) Image (Royal Spoonbil) 449 2472 Plasty construits (Justafian Royack, Royan-beidd Parrot) Image (Royal Statuminis Status) 449 24751 Plasty construits (Justafian Royack, Royan-beidd Parrot) Image (Royal Status) 449 24750 Plasty construits (Justafian Royack, Royan-beidd Parrot) Image (Royal Status) 449 2433 Plasty construits (Justafian Royan Royan Royan Checked Loges Justa) Image (Royal Status) 449 2433 Plasty construits (Justafian Royan Royan Checked Loges Justa) Image (Royal Status) 449 2433 Plasty construits Justafian Royan Royan Royan Royan Royan Royan Royan Royan Royan R		
443. 4071 Phylokaryst novaahalandia (Nav Holangatar) 444. 2456 Phylokaryst novaahalandia (Nav Holangatar) 445. Phylokaryst novaahalandia (Nav Holangatar) 446. Pinkhyyda harvai 447. Pora cumbariadeniasi 448. 24441 Platabar (Nav)es (Nav) 448. 24442 Platabar (Nav)es (Nav) 449. 2477 Playcocus (Introduction (Nav)es (Nav) 449. 2477 Playcocus connais udas, seminorquatus (Nave) (Nave) (Nave) 449. 24750 Playcocus connais udas, seminorquatus (Nave) (Nave) (Nave) (Nave) 449. 24750 Playcocus connais udas, seminorquatus (Nave) (Nave) (Nave) (Nave) 449. 24750 Playcocus connais udas, seminorquatus (Nave) (Nave) (Nave) 449. 24320 Playcocus connais udas, seminorquatus (Nave) (Nave) (Nave) 449. 24332 Playcocus connais udas, seminorquatus (Nave) (Nave) (Nave) 449. 24332 Playcocus connais udas, andita (Nave) (Nave) (Nave) (Nave) 449. 24332 Playcocus connais udas, nave) (Nave) (Nave) (Nave) (Nave) 449. 24332 Playcocus connais udas, nave) (Nave) (Nave) (Nave) (Nave) 449.	P2	
444.24506Phylokoprys teeniokaus/ Prinktyckerys teeniokaus445.Pinktyckerys teeniokaus446.Pinktyckerys teeniokaus447.Pinata angia harvait448.2444Pinata angiae (Yalvav-Niald Spoonbil)448.2444Pinata angiae (Yalvav-Niald Spoonbil)449.2472Pinytopataus endrachtensis449.2472Pinytopataus endrachtensis441.2475Pinytopataus andrachtensis442.24772Pinytoparous ketrolis (Keela Lago Parot)444.24750Pinytoparous sterios (Keela Lago Parot)445.24831Pinytofi kennikus (Giosy Pinkty446.24550Pinhohur graciis (Keela Lago Parot)447.25007Piethoks graciis (Keela Lago Parot)448.24332Pinytois kenjokus (Giosy Pinkty)448.24332Pinytois kenjokus (Giosy Proven)449.24579Podraguas strigokles subsp. trachytopany Frogmouth)501.24579Podraguas strigokles subsp. trachytopany Frogmouth)502.25501Podraguas strigokles subsp. trachytopany (Giosy Parot)503.24619Podraguas subsp. kestralis (Regent Parot)504.25510Podraguas subsp. kestralis (Regent Parot)505.24717Porara mata subsp. sameting (Regent Parot)506.25722Polyhikis anthoppuls (Regent Parot)507.Polytejs anthoppuls (Regent Parot)508.25722Polyhikis anthoppuls (Regent Parot)509.25723Porara mata subsp. settralis (Regent Paro	12	
485. Phyllopianys taaniolatus 486. Pinkinyula harvei 487. Piona curbenindensis 488. 2441 Plataba flavjes (Yallow-billed Spoonbil) 488. 2442 Plataba flavjes (Yallow-billed Spoonbil) 489. 2442 Plataba flavjes (Yallow-billed Spoonbil) 480. 2472 Platy-caphatus andrachtensis 481. 2572 Platy-carus teatros (Wastam Rosola)		
486.Pindinyafa harvei487.Pinto authorkandensis488.24841Pintale regin (Royal Spoorbill)488.24842Pintales regin (Royal Spoorbill)489.24720Pintyverzus icterosis (Klvesten Roselles)481.25720Pintyverzus icterosis (Klvesten Roselles)482.24747Pintyverzus caranis (Austalean Rangroeck, Ring-necked Parco)483.25721Pintyverzus zoranis au subap. somiloruzus (Twenty-velph Parco)484.25709Pintyverzus zoranis au subap. somiloruzus (Twenty-velph Parco)485.24843Pintyverzus zoranis au subap. somiloruzus (Twenty-velph Parco)486.2509Pintyverzus zoranis au subap. somiloruzus (Twenty-velph Parco)487.2507Pintyverzus zoranis au subap. somiloruzus (Twenty-velph Parco)488.24832Pinuxia is subap. zaralis (Klealet Legiess Lizard)489.24833Pinuxia is subap. practis (Klealet Legiess Lizard)480.24832Pinuxia is subap. Trachytems (Tarmy Fragmouth)501.24709Podreignus strigoides tauny Fragmouth)502.2510Podragius strigoides tauty. Prospontint)503.7007Podreignus subap. Nachytems (Tarmy Fragmouth)504.2511Podragius subap. Vastalia (Rogen Parco)505.2512Polysia anthopoplus subap. Wastalia (Rogen Parco)506.2572Polysia anthopoplus subap. Wastalia (Rogen Parco)507.Podragius autiap. Vastalia (Rogen Parco)508.2572Polysia anthopoplus subap. Vastalia (Rogen Parco)<		
487. Piona cumberiandomia 488. 2484 Pionae anyles (rigola Sponchill) 489. 24842 Pionae anyles (Roya Sponchill) 490. Partycephalis endrachtenias 491. 2570 Pioprecurs spurius (Red-capped Parco) 492. 2474 Piotycephalis endrachtenias 493. 2571 Piotycerus spurius (Red-capped Parco) 494. 24750 Pioprecurs spurius (Red-capped Parco) 495. 24843 Piagadis fabinelius (Glossy libi) 496. 25007 Piothescurs convarius subsp. semitorquatus (Tverny-béjht Parco) 497. 25007 Piothescurs convarius subsp. semitorquatus (Tverny-béjht Parco) 498. 24332 Piovisia subsp. gracilis (Keelet Legiess Lizard) 498. 24333 Piovisia subsp. gracilis (Keelet Capiess Lizard) 498. 24332 Piovisia subsp. gracilis (Keelet Capiess Lizard) 501. 24707 Podragua strigoletis (Inamy Forgmouth) 502. 25704 Podragua strigoletis (Inamy Forgmouth) 503. 24907 Pogran aninor subsp. minor (Uwarl Bearded Dragon) 504. 25716 Polylop a continue (Maarl Bearled Dragon) 505. 24907 Pograna ninor subsp. minor (Uwarl Bearled Dragon) 506. 25722 Polylop corphyn		
488. 24441 Platalea Invipes (Yellow-billed Spoonbill) 489. 24442 Platyoerous sicteroit (Western Rosella) 481. 25720 Platyoerous sicteroit (Western Rosella) 482. 24747 Platyoerous sourius (Kericepeel Parrot) 483. 25721 Platyoerous sourius (Australian Ringmeck, Ring-necked Parrot) 484. 24750 Platyoerous sourius (Australian Ringmeck, Ring-necked Parrot) 485. 24843 Pleudoit Scienchius (Gosp View) 486. 25509 Pletholax graciis (Keeled Legless Lzard) 487. 25007 Pletholax graciis (Keeled Legless Lzard) 488. 24832 Pluvalia strajedies (Tarvi Progronuth) 501. 24673 Padoregus strajodes (Tarvi Progronuth) 502. 25710 Padoregus strajodes (Grav Progron 503. Padagreus tarlopablis (Grav Progron		
489. 24842 Plataka regia (Royal Spoonhill) 490. Patycophalus endrachtensis 491. 25720 Patycores identis (Kest-enaped Parrol) 492. 24147 Platycercus spunis (Red-capped Parrol) 493. 221750 Platycercus sonarius (Astrone Roella) 494. 24750 Platycercus zonarius (Astrone Roella) 495. 24850 Plentokas gradiis (Redel Cagless Lzard) 496. 25509 Plentokas gradiis (Redel Cagless Lzard) 497. 25077 Plentokas gradiis Colden Plover) 498. 24838 Pluvialis sulutarola (Greet Plover) 500. 25704 Podorgus strigodess (Carver Plover) 501. 24767 Podagrus strigodess (Created Grebe) 503. Podorgus strigodes (Greet Created Grebe)		
49. Platyceptulue endrachtensis 491. 25720 Platycercus ictericit (Western Roselia) 492. 2447 Platycercus zonarius (Australian Ringneck, Ring-necked Parnot) 493. 25721 Platycercus zonarius (Justralian Ringneck, Ring-necked Parnot) 494. 24750 Platycercus zonarius subap, semitorquatus (Twenty-leight Parnot) 495. 24843 Plegadia faichellus (Glossy Ibis) 496. 25007 Petholox gracilis (Keeled Lejess Lzard) 497. 25007 Petholox strigolies (Keeled Lejess Lzard) 498. 24822 Pluvalis Luiva (Pacific Golden Plover) 499. 24833 Pluvalis Strigolies subap, nearlypensu (Tamy Frogmouth) 501. 2510 Podargus strigolies subap. Inachypensu (Tamy Frogmouth) 502. 25104 Podargus strigolies subap. Famy Frogmouth) 503. Podry Pogona minor (Dwarl Baarded Dragon) Immer Subap. mino: Subap. Subap. Immer Subap. Mino: Subap. Subap. 504. 2510 Pogona mino: Clovarl Baarded Dragon) Immer Subap. Mino: Subap		
491. 25720 Platycercus icterotis (Western Posella) 492. 24747 Platycercus spurius (Red-capped Parrot) 493. 25711 Platycercus zonarius (Australian Ringreck, Ring-necked Parrot) 494. 24750 Platycercus zonarius (Australian Ringreck, Ring-necked Parrot) 495. 24843 Plagyadis facinelius (Glossy bis) 496. 25007 Pletholax gracilis subap, gracilis (Keelde Legless Lizard) 497. 25007 Pletholax gracilis subap, argacilis (Keelde Legless Lizard) 498. 24383 Pluvialis aquatarola (Grey Plover) 500. 25703 Podargus strigodes (Tawny Frogmouth) 501. 24767 Podargus strigodes (Tawny Frogmouth) 502. 25704 Podargus strigodes (Tawny Frogmouth) 503. Podargus strigodes (Tawny Frogmouth)		
492. 24747 Playcercus spurius (Red-capped Parrot) 493. 25711 Playcercus zonarius (Justralian Ringrenck, Ring-necked Parrot) 494. 24750 Playcercus zonarius (Justralian Ringrenck, Ring-necked Parrot) 495. 24933 Plenolax gracilis (Keeled Legiess Lzard) 496. 25059 Plenolax gracilis (Keeled Legiess Lzard) 498. 24932 Pluvailus kuva (Pacific Golden Plover) 498. 24933 Pluvailus strojoletis Caviden Plover) 501. 24679 Podargus strojoletis Caviden Plover) 502. 25704 Podargus strojoletis Caviden Plover) 503. Podargus strojoletis caviden Oragon) 501 504. 25510 Pogana minor (Dwarl Baarded Dragon) 502 505. 24070 Podargus anthoppalus (Hoary-headed Dragon) 503 506. 24081 Polocophalus policocephalus (Hoary-headed Dragon) 504 507. Polyls Ischiosus 507 Polyls policocephalus (Hoary-headed Dragon) 508 508. 24701 Poraan intro subar, minor Uwarl Baarded Dragon) 501 502 508. 24722 Polyls Ischiosus 504		
493. 25721 Playcercus zonarius (Australian Ringneck, Ring-necked Parrot) 494. 24750 Playcercus zonarius subs.p. senitorquatus (Twenty-eight Parrot) 495. 24843 Plaget fainellus (Socies Uzard) 496. 2500 Plethokar graciis (Keeled Legless Lzard) 497. 25007 Plethokar graciis (Keeled Legless Lzard) 498. 24382 Pluvialis subag. traciois (Keeled Legless Lzard) 498. 24383 Pluvialis subag. tracinis (Keeled Legless Lzard) 500. 25703 Podargus strigoides (Tawn Progmouth) 501. 24679 Podargus strigoides (Greet Cested Greeb) 502. 25704 Podargus strigoides (Greet Cested Greeb) 503. Podybag collius policoephtalus (Haary-headed Dragon)		
444. 24750 Playercus zonarius subsp. semitorquatus (Twenty-eight Parrot) 4495. 24443 Plogadis taicnellus (Glossy Ibis) 4496. 2550 Plotholax gracilis (Sedel Legless Lizard) 4497. 25007 Pletholax gracilis (Sedel Legless Lizard) 4498. 24382 Pluvialis tuba (Pacific Golden Plover) 4500. 25703 Podragus strigoides subsp. brachypterus (Tawny Frogmouth) 501. 24679 Podragus strigoides subsp. brachypterus (Tawny Frogmouth) 502. 25704 Podragus strigoides subsp. inacrypterus (Tawny Frogmouth) 503. Podybpus collinus		
495. 24843 Plegodis falcinellus (Glossy Ibis) 496. 25609 Pletholax gracilis (Koeled Legless Lizard) 497. 25007 Pletholax gracilis (Koeled Legless Lizard) 498. 24382 Pluvialis fulva (Pacific Golden Plover) 499. 24383 Pluvialis supatarola (Grey Plover) 500. 25703 Podragus strigoites (Tarvery Frogmouth) 501. 24679 Podragus strigoites (Tarvery Frogmouth) 502. 25704 Podragus collinus 503. Podragus collinus Graed Crested Grebe) 504. 25510 Pogora minor (Dwarl Bearded Dragon) 505. 24907 Pogolagus collinus 506. 24907 Pogolagus collinus 507. Polagus collinus (Hoary-headed Grebe) 507. Polagus anthopepulus (Regent Parrot) 500 508. 25722 Polysis anthopepulus (Regent Parrot) 501 509. Pormatomus astatrix 501 502 511. 25731 Porphyto portlytrio (Purple Swamphen) 501 512. 24767 Poptrytio portlytrio (Suzhe) 501 <td< td=""><td></td><td></td></td<>		
496. 25509 Pierholax gracilis (Keeled Legiess Lizard) 497. 25007 Pietholax gracilis (Keeled Legiess Lizard) 498. 24382 Piuvialis subar, Pacific Coldan Ploven) 499. 24383 Pluvialis supatarola (Grey Plover) 500. 25703 Podargus strigoides (Tawny Frogmouth) 501. 24761 Podrigus strigoides (Tawny Frogmouth) 502. 25704 Podiceps cristatus (Great Crested Grebe) 503. Podykipus collinus 504. 25510 Pogona minor Subap, minor (Dwarf Bearded Dragon) 505. 24007 Polys Encinosus 508. 25722 Polyteis anthopeplus subap. vestralis (Regent Parrot) 508. 25722 Polyteis anthopeplus subap. vestralis (Regent Parrot) 509. Podias anthopeplus subap. vestralis (Regent Parrot) 510. Pornorus saltativ 511. 25731 Porphyrio porphyrio (Purple Swamphen) 513. 24769 Porzana pusilia (Salion's Crake) 514. 25732 Porzana pusilia Subap, Palutris (Ballon's Crake) 515. 24770 Porzana tu		
497. 25007 Pletholax gracills subsp. gracills (Keeled Legiess Lizard) 498. 24332 Pluvalis fulva (Racific Golden Plover) 500. 25703 Podargus strigoides (Tawny Frogmouth)	IA	
498. 24382 Pluvialis fulva (Pacific Golden Plover) 499. 24383 Pluvialis squatarola (Grey Plover) 500. 25703 Podargus strigoides subs. brachypterus (Tawny Frogmouth) 501. 24709 Podargus strigoides subs. brachypterus (Tawny Frogmouth) 502. 25704 Podorgus strigoides subs. brachypterus (Tawny Frogmouth) 503. Podykipus collinus 504. 25510 Pogona minor Clovarf Bearded Dragon) 505. 24007 Pogona minor Subsp. minor (Dwarf Bearded Dragon) 506. 24017 Pogona minor Subsp. minor (Dwarf Bearded Dragon) 507. Polys Eakinisous Formanior Subsp. Maines Subsp. Maines 508. 25722 Polyteils anthopeplus subsp. westrakis (Regent Parrot) 509. S084 Polyteins anthopeplus subsp. westrakis (Regent Parrot) 510. Portana fuminea (Australian Spotted Crake) Imminea (Australian Spotted Crake) 511. 25731 Portana pusilla Usiba, pallustris (Baillon's Crake) 514. 25732 Porzana pusilla Usiba, pallustris (Baillon's Crake) 515. 24771 Porzana pusilla Usiba, pallustris (Baillon's Crake) 516. 24771 Porzana b		
499. 24383 Pluvialis squatarola (Grey Plover) 500. 25703 Podargus strigoides (Tawry Frogmouth) 501. 24679 Podargus strigoides subsp. brachypterus (Tawry Frogmouth) 502. 25704 Podargus strigoides subsp. brachypterus (Tawry Frogmouth) 503. Podykipus collinus 504. 25510 Pogona minor (Dwarf Bearded Dragon) 505. 24007 Pogona minor subsp. minor (Dwarf Bearded Dragon) 506. 24681 Policosphalus policoephalus (Hoary-headed Grebe) 507. Polys laciniosus 508. 25722 Polylesis anthopeplus (Regent Parrot) 509. 30854 Polysis laciniosus 501. Pornatorus saltarix 511. 25717 Porphyrio porphyrio (Purple Swamphen) 512. 24767 Porphyrio schsp. bellus (Purple Swamphen) 513. 24769 Porzana pusilla subsp. palustris (Bailon's Crake) 514. 25712 Porzana pusilla subsp. palustris (Bailon's Crake) 515. 24770 Porzana pusilla subsp. palustris (Bailon's Crake) 516. 24771 Porzana pusilla subsp. palustris (Bailon's Crake) 528.		
500. 25703 Podargus strigoides subsp. brachtypterus (Tawny Frogmouth) 501. 24767 Podargus strigoides subsp. brachtypterus (Tawny Frogmouth) 502. 25704 Podicesp cristatus (Great Crested Grebe) 503. Podytypus collinus 504. 25510 Pogona minor (Dwart Bearded Dragon) 505. 24801 Policosphalus policocphalus (Hoary-headed Grebe) 506. 24521 Polytis laciniosus 507. Poltys laciniosus Formatornus saltatrix 508. 25722 Polytis anthopephus (Regent Parrot) Formatornus saltatrix 510. Pormatornus saltatrix Formatornus saltatrix Formatornus saltatrix 511. 25731 Porzana fumine (Lustralian Spotted Crake) Formatornus saltatrix 513. 24769 Porzana fumines (Spottess Crake) Formata busins (Spottess Crake) 514. 25732 Porzana fumines (Spottess Crake) Formosternum soutatum 516. 24771 Porzana fumines (Mulga Snake) Formosternum soutatum 517. Pseudonaja affinis (Dugite) Formosternum soutatum Formosternum soutatum <td>IA</td> <td></td>	IA	
501. 24679 Podagus strigoides subsp. brachypterus (Tawny Frogmouth) 502. 25704 Podikipus collinus 503. Podykipus collinus Podykipus collinus 504. 25510 Pogona minor (Dwarl Bearded Dragon) Status (Great Crested Grebe) 505. 24907 Pogona minor (Dwarl Bearded Dragon) Status Policoephalus policoephalus (Hoary-headed Grebe) 506. 24681 Polova indinor (Dwarl Bearded Dragon) Status Policoephalus policoephalus (Regent Parrot) 508. 25722 Polytelis anthopephus subsp. westralis (Regent Parrot) Pomatomus salatrix 510. Pornamus salatrix Portypiro porphyrio foruple Swamphen) Status Polytelis anthopephus subsp. vestralis (Regent Parrot) 511. 25731 Porphyrio porphyrio (Purple Swamphen) Status Portypiro porphyrio subsp. bellus (Purple Swamphen) 512. 24767 Portzana pusilla (Baillon's Crake) Status Portypiro Portypiro Status Policoephalus (Purple Swamphen) 514. 25732 Portzana pusilla subsp. palustris (Baillon's Crake) Status Policoephalus Policoephal	IA	
502. 25704 Podi/spus cristatus (Great Crested Grebe) 503. Pody/spus cristatus (Great Crested Grebe) Sol 504. 25510 Pogona minor (Dwarf Bearded Dragon) 505. 24907 Pogona minor (Dwarf Bearded Dragon) 506. 24681 Policoephalus poliocephalus (Hoary-headed Grebe) Sol 507. Polys laciniosus Sol Sol 508. 25722 Polytelis anthopeplus subsp. westralis (Regent Parrot) Sol 509. Sol 272 Polytelis anthopeplus subsp. westralis (Regent Parrot) Sol 510. Pornatorius saltatrix Sol Sol 511. 25731 Porphyrio porphyrio subsp. bellus (Purple Swamphen) Sol 512. 24767 Porphyrio porphyrio subsp. palustris (Bailon's Crake) Sol 513. 24769 Porzana pusilia laubicon's Crake) Sol 514. 25732 Polyte palustris (Bailon's Crake) Sol 515. 24717 Porzana tubuensis (Spoless Crake) Sol 516. 24717 Porzana tubuensis (Muga Snake) Sol		
502. 25704 Podikipus collinus 503. Podykipus collinus 504. 25510 Pogona minor (Dwarf Bearded Dragon) 505. 24681 Policoephalus, ninor (Dwarf Bearded Dragon) 506. 24681 Policoephalus, ninor (Dwarf Bearded Dragon) 507. Poltys laciniosus 508. 2572 Polytelis anthopephus (Regent Parrot) 509. 30854 Polytelis anthopephus subsp. westralis (Regent Parrot) 510. Pornatornus satlatrix 511. 25731 Porphyrio porphyrio (Purple Swamphen) 512. 24767 Porphyrio subsp. bellus (Purple Swamphen) 513. 24769 Porphyrio porphyrio subsp. palustris (Baillon'S Crake) 514. 25732 Portama pusilla tubers palustris (Baillon'S Crake)		
503. Podykipus collinus 504. 25510 Pogona minor (Dwarf Bearded Dragon) 505. 24907 Pogona minor subsp. minor (Dwarf Bearded Dragon) 506. 2481 Policcephalus policcephalus (Hoary-headed Grebe) 507. Politys laciniosus		
504. 25510 Pogona minor (Dwarl Bearded Dragon) 506. 24607 Pogona minor subsp. minor (Dwarl Bearded Dragon) 506. 24618 Policocephalus policocephalus (Hoary-headed Grebe) 507. Poltys lachinosus 508. 25722 Polytelis anthopeplus (Regent Parrot) 509. 30854 Polytelis anthopeplus subsp. westralis (Regent Parrot) 501. Pomatomus saltatrix 511. 25731 Pophyrio porphyrio subsp. bellus (Purple Swamphen) 512. 24767 Porphyrio porphyrio subsp. bellus (Purple Swamphen) 513. 24768 Porzana fullminea (Australian Spotted Crake) 514. 25722 Porzana pusilla Bullon's Crake) 515. 24770 Porzana pusilla Bullon's Crake) 516. 24711 Porzana tubuensis (Spottess Crake) 517. Prioosternum scutatum 518. Prionosternum scutatum 519. 25261 Pseudodpaja adfinis (Dugite) 520. Pseudonaja affinis (Dugite)		
505. 24907 Pogona minor subsp. minor (Dwarf Bearded Dragon) 506. 24681 Policcephalus policcephalus (Hoary-headed Grebe) 507. Polys laciniosus 508. 25722 Polytelis anthopeplus (Regent Parrot) 509. 30854 Polytelis anthopeplus subsp. westralis (Regent Parrot) 510. Pornatomus saltatrix 511. 25731 Porphyrio porphyrio (Purple Swamphen) 512. 24767 Porphyrio porphyrio Subsp. bellus (Purple Swamphen) 513. 24769 Porzana fluminea (Australian Spotted Crake) 514. 25732 Porzana pusilla (Baillon's Crake) 515. 24770 Porzana pusilla Subsp. palustris (Baillon's Crake) 516. 24771 Porzana tabuensis (Spotless Crake) 517. Priolepis nuchifasciata Prionostermum scutatum 518. Pionostermum scutatum Statustris (Mulga Snake) 520. Pseudonaja affinis (Dugite) Statustris (Statustris (Mulga Snake) 521. Pseudonaja affinis subsp. aflins (Dugite) Statustris (Regent Brown Snake) 522. 25511 Pseudonaja affinis subsp. aflins (Du		
506. 24681 Poliocephalus policcephalus (Hoary-headed Grebe) 507. Polys laciniosus 508. 25722 Polytelia anthopeplus (Regent Parrot) 509. 3084 Polytelia anthopeplus subsp. westralis (Regent Parrot) 510. Pornatomus saltatrix 511. 25731 Porphyrio porphyrio subsp. bellus (Purple Swamphen) 512. 24767 Porphyrio porphyrio subsp. bellus (Purple Swamphen) 513. 25732 Porzana pusilla (Baillon's Crake) 514. 25732 Porzana pusilla (Baillon's Crake) 515. 24770 Porzana pusilla (Baillon's Crake) 516. 24771 Porzana pusilla (Mulga Snake) 517. Priolepis nuchifasciata 518. Prionosterrum socutatum 519. 25261 Pseudolanpona woodman 522. 25511 Pseudonaja affinis (Dugite) 523. 25263 Pseudonaja affinis (Dugite) 524. 42416 Pseudonaja affinis (Dugite) 525. 25263 Pseudonaja affinis (Mulga Snake) 526. 25433 Pseudonaja		
507. Poltys laciniosus 508. 25722 Polytelis anthopeplus (Regent Parrot) 509. 30854 Polytelis anthopeplus subsp. westralis (Regent Parrot) 510. Pomatomus saltatrix 511. 25731 Porphyrio porphyrio (Purple Swamphen) 512. 24767 Porphyrio porphyrio subsp. bellus (Purple Swamphen) 513. 24769 Porzana pusilla (Sallon's Crake) 514. 25732 Porzana pusilla Subsp. palustris (Ballon's Crake) 515. 24770 Porzana pusilla Subsp. palustris (Ballon's Crake) 516. 24771 Porzana tuchifasciata 517. Priolepis nuchifasciata 518. Prionosternum scutatum 519. 25201 Pseudolampona woodman 522. 25511 Pseudolanja affinis (Dugite) 523. 25263 Pseudonaja affinis (Dugite) 524. 42416 Pseudonaja affinis (Dugite) 525. 25263 Pseudonaja mengdeni (Western Brown Snake) 526. 25433 Pseudontombus sp. 527. Pseudontombus sp. Filse		
508. 25722 Polytelis anthopeplus (Regent Parrot) 509. 30854 Polytelis anthopeplus subsp. westralis (Regent Parrot) 510. Pornatomus saltatrix 511. 25731 Porphyrio porphyrio (Purple Swamphen) 512. 24767 Porphyrio porphyrio subsp. bellus (Purple Swamphen) 513. 24769 Porzana fluminea (Australian Spotted Crake) 514. 25732 Porzana pusilla (Baillon's Crake) 515. 24770 Porzana pusilla (Spottess Crake) 516. 24771 Porzana tabuensis (Spottess Crake) 517. Priologis nuchifasciata Prionosternum scutatum 518. Prionosternum scutatum		
509. 30854 Polytelis anthopeplus subsp. westrai's (Regent Parrot) 510. Pormatomus saltatrix 511. 25731 Porphyrio porphyrio (Purple Swamphen) 512. 24767 Porphyrio porphyrio subsp. bellus (Purple Swamphen) 513. 24769 Porzana fluminea (Australian Spotted Crake) 514. 25732 Porzana pusilla (Baillon's Crake) 515. 24770 Porzana pusilla (Baillon's Crake) 516. 24771 Porzana tabuensis (Spottess Crake) 517. Priolepis nuchifasciata 518. Prionosternum scutatum 519. 25261 Pseudopibus olorum 520. Pseudopibus olorum 521. Pseudonaja affinis (Dugite) 523. 25259 Pseudonaja affinis (Dugite) 524. 42416 Pseudonaja modesta (Ringed Brown Snake) 525. 25263 Pseudonibus sp. 526. 25433 Pseudonibus sp. 527. Pseudonibus sp. 528. Pseudorhombus		
510. Pomatomus saltatrix 511. 25731 Porphyrio porphyrio (Purple Swamphen) 512. 24767 Porphyrio porphyrio subsp. bellus (Purple Swamphen) 513. 24769 Porzana fuminea (Australian Spotted Crake) 514. 25732 Porzana pusilla (Ballon's Crake) 515. 24770 Porzana pusilla Subsp. palustris (Ballon's Crake) 516. 24771 Porzana tubuensis (Spotless Crake) 517. Priolepis nuchifasciata 519. 25261 Pseudechis australis (Mulga Snake) 520. Pseudolampona woodman		
511. 25731 Porphyrio porphyrio (Purple Swamphen) 512. 24767 Porphyrio porphyrio subsp. bellus (Purple Swamphen) 513. 24769 Porzana fluminea (Australian Spotted Crake) 514. 25732 Porzana pusilla (Ballior)'s Crake) 515. 24770 Porzana pusilla Subsp. palustris (Ballon's Crake) 516. 24771 Porzana tabuensis (Spottess Crake) 517. Prionosternum scutatum 518. Prionosternum scutatum 519. 25261 Pseudochis australis (Mulga Snake) 520. Pseudopibus olorum 521. Pseudopibus olorum 522. 25511 Pseudonapna woodman 523. 25259 Pseudonaja affinis (Dugite) 524. 42416 Pseudonaja affinis (Dugite) 525. 25263 Pseudorhombus genynsi 526. 25433 Pseudorhombus genynsi 527. Pseudorhombus genynsi 528. Pseudorhombus genynsi 529. 48085 Psittaula krameri (Indian Ringnecked Parrot, Rose-ringed Parakeet) Y 530. 24702 Pterodroma brevirostris (Kerguelen Petrel)		
512. 24767 Porphyrio porphyrio subsp. bellus (Purple Swamphen) 513. 24769 Porzana fluminea (Australian Spotted Crake) 514. 25732 Porzana pusilla (Baillon's Crake) 515. 24770 Porzana pusilla Subsp. palustris (Baillon's Crake) 516. 24771 Porzana tubuensis (Spotless Crake) 517. Priolepis nuchifasciata		
513.24769Porzana fluminea (Australian Spotted Crake)514.25732Porzana pusilla (Baillon's Crake)515.24770Porzana pusilla subsp. palustris (Baillon's Crake)516.24771Porzana tabuensis (Spotless Crake)517.Priolopis nuchifasciata518.Prionosternum scutatum519.25261Pseudochis australis (Mulga Snake)520.Pseudojaus olorum521.Pseudolampona woodman522.25511Pseudonaja affinis (Dugite)523.25259Pseudonaja affinis (Dugite)524.42416Pseudonaja affinis (Sugite)525.25263Pseudonaja mengdeni (Westem Brown Snake)526.25433Pseudonaja mengdeni (Westem Brown Snake)527.Pseudonaja mengdeni (Wastem Brown Snake)528.Pseudonaja mengdeni (Wratem Brown Snake)529.48085Psittacula krameri (Indian Ringnecked Parrot, Rose-ringed Parakeet)531.24702Pterodroma brevirostris (Kerguelen Petrel)532.2510Pterodroma macroptera (Great-winged Petrel)533.2511Pterodroma macroptera (Great-winged Petrel)533.25111Pterodroma macroptera (Great-winged Petrel)533.25111Pterodroma macroptera (Great-winged Petrel)534.Pterygotrigla polyommata535.24711Pufinus assimilis subsp. assimilis (Little Shearwater)536.42344Purnella albitrons (White-fronted Honeyeater)537.Purpureicephalus spurius		
514. 25732 Porzana pusilla (Baillon's Crake) 515. 24770 Porzana pusilla subsp. palustris (Baillon's Crake) 516. 24771 Porzana tabuensis (Spotless Crake) 517. Priolepis nuchifasciata 518. Prionosternum scutatum 519. 25261 Pseudochis australis (Mulga Snake) 520. Pseudogobius olorum 521. Pseudoampona woodman 522. 25511 Pseudoampona woodman 523. 25252 Pseudoampona affinis (Dugite) 524. 42416 Pseudonaja affinis (Dugite) 525. 25263 Pseudonaja modesta (Ringed Brown Snake) 526. 25433 Pseudonnaja modesta (Ringed Brown Snake) 527. Pseudorhombus jenynsii 528. Pseudorhombus sp. 529. 48085 Psitacula krameri (Indian Ringnecked Parrot, Rose-ringed Parakeet) Y 530. 24702 Pterodroma hervirostris (Kerguelen Petrel) Y 531. 24703 Pterodroma macroptera (Great-winged Petrel) Y 533. 25711 Pterodroma macroptera (Great-winged Petrel) Y 533. </td <td></td> <td></td>		
515. 24770 Porzana pusilla subsp. palustris (Baillon's Crake) 516. 24771 Porzana tabuensis (Spotless Crake) 517. Priolepis nuchifasciata 518. Prionosternum scutatum 519. 25261 Pseudochis australis (Mulga Snake) 520. Pseudogabius olorum 521. Pseudolampona woodman 522. 25511 Pseudolanja affinis (Dugite) 523. 25259 Pseudonaja affinis (Dugite) 524. 42416 Pseudonaja mengdeni (Western Brown Snake) 525. 2563 Pseudorhmbus jenynsii 526. 25433 Pseudorhmbus jenynsii 527. Pseudorhombus jenynsii 528. Pseudorhombus sp. 529. 48085 Psittacula krameri (Indian Ringnecked Parrot, Rose-ringed Parakeet) Y 530. 24702 Pterodroma brevirostris (Kerguelen Petrel) Y 531. 24703 Pterodroma macroptera (Great-winged Petrel) Y 532. 25710 Pterodroma moliis (Soft-plumaged Petrel) Y 533. 25711 Pterodroma moliis (Soft-plumaged Petrel) Y 5		
516. 24771 Porzana tabuensis (Spotless Crake) 517. Priolepis nuchifasciata 518. Prionosternum scutatum 519. 25261 Pseudochis australis (Mulga Snake) 520. Pseudogobius olorum		
517.Priolepis nuchifasciata518.Prionosternum scutatum519.25261Pseudechis australis (Mulga Snake)520.Pseudogobius olorum521.Pseudolampona woodman522.25511Pseudolampona woodman523.25259Pseudonaja affinis (Dugite)524.42416Pseudonaja affinis (Dugite)525.2563Pseudonaja mengdeni (Western Brown Snake)526.25433Pseudonpyne guentheri (Crawling Toadlet)527.Pseudorhombus jenynsii528.Pseudorhombus sp.529.48065Psittacula krameri (Indian Ringnecked Parrot, Rose-ringed Parakeet)530.24702Pterodroma hervirostris (Kerguelen Petrel)531.24703Pterodroma hersoni (White-headed Petrel)533.25711Pterodroma macroptera (Great-winged Petrel)534.Pterygotrigla polyommata535.24711Purflinus assimilis subsp. assimilis (Little Sheanwater)536.42344Purnelicephalus spurius		
518.Prionosternum scutatum519.25261Pseudochis australis (Mulga Snake)520.Pseudogobius olorum521.Pseudolampona woodman522.25511Pseudonaja affinis (Dugite)523.25259Pseudonaja affinis (Dugite)524.42416Pseudonaja mengdeni (Western Brown Snake)525.25263Pseudonaja modesta (Ringed Brown Snake)526.2543Pseudonnja modesta (Ringed Brown Snake)527.Pseudorhombus jenynsii528.Pseudorhombus sp.529.48085Psittacula krameri (Indian Ringnecked Parrot, Rose-ringed Parakeet)530.24702Pterodroma brevirostris (Kerguelen Petrel)531.24703Pterodroma lessonii (White-headed Petrel)532.25710Pterodroma macroptera (Great-winged Petrel)533.25711Pterodroma macroptera (Great-winged Petrel)534.Pterygotrigla polyommata535.24711Puffinus assimilis subsp. assimilis (Little Shearwater)536.42344Purnella albifrons (White-fronted Honeyeater)537.Purpureicephalus spurius		
519.25261Pseudechis australis (Mulga Snake)520.Pseudogobius olorum521.Pseudolampona woodman522.25511Pseudonaja affinis (Dugite)523.25259Pseudonaja affinis (Dugite)524.42416Pseudonaja mengdeni (Western Brown Snake)525.25263Pseudonaja modesta (Ringed Brown Snake)526.25433Pseudonaja modesta (Ringed Brown Snake)527.Pseudorhombus jenynsii528.Pseudorhombus sp.529.48085Psittacula krameri (Indian Ringnecked Parrot, Rose-ringed Parakeet)530.24702Pterodroma brevirostris (Kerguelen Petrel)531.24703Pterodroma lessonii (White-headed Petrel)532.25710Pterodroma macroptera (Great-winged Petrel)533.25711Pterodroma molis (Soft-plumaged Petrel)534.Pterygotrigla polyommata535.24711Puflinus assimilis subsp. assimilis (Little Shearwater)536.42344Purnelia albifrons (White-fronted Honeyeater)537.Purpureicephalus spurius		
520.Pseudogobius olorum521.Pseudolampona woodman522.25511523.25259524.42416525.25263526.2543526.2543527.Pseudorhombus jenynsii528.Pseudorhombus sp.529.48085529.48085521.257107Pseudorhombus sp.529.48085531.2470224702Pterodroma brevirostris (Kerguelen Petrel)532.25710533.257117Pterodroma macroptera (Great-winged Petrel)534.Pterodroma molis (Soft-plumaged Petrel)535.24711536.423449Purpureicephalus sp.537.Purpureicephalus sp.		
521.Pseudolampona woodman522.25511Pseudonaja affinis (Dugite)523.2529Pseudonaja affinis subsp. affinis (Dugite)524.42416Pseudonaja mengdeni (Western Brown Snake)525.25263Pseudonaja modesta (Ringed Brown Snake)526.25433Pseudonbus jenynsii527.Pseudorhombus jenynsii528.Pseudorhombus sp.529.48085Psittacula krameri (Indian Ringnecked Parrot, Rose-ringed Parakeet)Y530.24702Pterodroma brevirostris (Kerguelen Petrel)531.24703Pterodroma lessonii (White-headed Petrel)532.25710Pterodroma macroptera (Great-winged Petrel)533.25711Pterodroma molis (Soft-plumaged Petrel)534.Pterygotrigla polyommata535.24711Puffinus assimilis subsp. assimilis (Little Shearwater)536.42344Purnella albifrons (White-fronted Honeyeater)537.Purpureicephalus spurius		
522.25511Pseudonaja affinis (Dugite)523.2529Pseudonaja affinis subsp. affinis (Dugite)524.42416Pseudonaja mengdeni (Western Brown Snake)525.25263Pseudonaja modesta (Ringed Brown Snake)526.25433Pseudonbus genynsii527.Pseudorhombus genynsii528.Pseudorhombus sp.529.48085Psittacula krameri (Indian Ringnecked Parrot, Rose-ringed Parakeet)Y530.24702Pterodroma brevirostris (Kerguelen Petrel)Y531.24703Pterodroma lessonii (White-headed Petrel)Y532.25710Pterodroma macroptera (Great-winged Petrel)Y533.25711Pterodroma molis (Soft-plumaged Petrel)Y534.Pterygotrigla polyommataY535.24711Puffinus assimilis subsp. assimilis (Little Shearwater)Y536.42344Purnelia albifrons (White-fronted Honeyeater)Y537.Purpureicephalus spuriusY		
523.25259Pseudonaja affinis subsp. affinis (Dugite)524.42416Pseudonaja mengdeni (Western Brown Snake)525.25263Pseudonaja modesta (Ringed Brown Snake)526.25433Pseudonhyne guentheri (Crawling Toadlet)527.Pseudorhombus jenynsii528.Pseudorhombus sp.529.48085Psittacula krameri (Indian Ringnecked Parrot, Rose-ringed Parakeet)Y530.24702Pterodroma brevirostris (Kerguelen Petrel)531.24703Pterodroma lessonii (White-headed Petrel)532.25710Pterodroma macroptera (Great-winged Petrel)533.25711Pterodroma molis (Soft-plumaged Petrel)534.Pterygotrigla polyommata535.24711Puffinus assimilis subsp. assimilis (Little Shearwater)536.42344Purnelia albifrons (White-fronted Honeyeater)537.Purpureicephalus spurius		
523.25259Pseudonaja affinis subsp. affinis (Dugite)524.42416Pseudonaja mengdeni (Western Brown Snake)525.25263Pseudonaja modesta (Ringed Brown Snake)526.25433Pseudonhyne guentheri (Crawling Toadlet)527.Pseudorhombus jenynsii528.Pseudorhombus sp.529.48085Psittacula krameri (Indian Ringnecked Parrot, Rose-ringed Parakeet)Y530.24702Pterodroma brevirostris (Kerguelen Petrel)531.24703Pterodroma lessonii (White-headed Petrel)532.25710Pterodroma macroptera (Great-winged Petrel)533.25711Pterodroma molis (Soft-plumaged Petrel)534.Pterogroma molis (Soft-plumaged Petrel)535.24711Puffinus assimilis subsp. assimilis (Little Shearwater)536.42344Purnelia albifrons (White-fronted Honeyeater)537.Purpureicephalus spurius		
524.42416Pseudonaja mengdeni (Western Brown Snake)525.25263Pseudonaja modesta (Ringed Brown Snake)526.25433Pseudophryne guentheri (Crawling Toadlet)527.Pseudorhombus jenynsii528.Pseudorhombus sp.529.48085Psittacula krameri (Indian Ringnecked Parrot, Rose-ringed Parakeet)Y530.24702Pterodroma brevirostris (Kerguelen Petrel)Y531.24703Pterodroma lessonii (White-headed Petrel)Y532.25710Pterodroma macroptera (Great-winged Petrel)Y533.25711Pterodroma molis (Soft-plumaged Petrel)Y534.Pterogotrigla polyommataY535.24711Puffinus assimilis subsp. assimilis (Little Shearwater)Y536.42344Purnella albifrons (White-fronted Honeyeater)Y537.Purpureicephalus spuriusY		
525. 25263 Pseudonaja modesta (Ringed Brown Snake) 526. 25433 Pseudohyne guentheri (Crawling Toadlet) 527. Pseudorhombus jenynsii 528. Pseudorhombus sp. 529. 48085 Psitacula krameri (Indian Ringnecked Parrot, Rose-ringed Parakeet) Y 530. 24702 Pterodroma brevirostris (Kerguelen Petrel) Y 531. 24703 Pterodroma lessonii (White-headed Petrel) Y 532. 25710 Pterodroma macroptera (Great-winged Petrel) Y 533. 25711 Pterodroma molis (Soft-plumaged Petrel) Y 534. Pterygotrigla polyommata Y 535. 24711 Puffinus assimilis subsp. assimilis (Little Shearwater) Y 536. 42344 Purnella albifrons (White-fronted Honeyeater) Y 537. Purpureicephalus spurius Y		
526. 25433 Pseudorhyrne guentheri (Crawling Toadlet) 527. Pseudorhombus jenynsii 528. Pseudorhombus sp. 529. 48085 Psitacula krameri (Indian Ringnecked Parrot, Rose-ringed Parakeet) Y 530. 24702 Pterodroma brevirostris (Kerguelen Petrel) Y 531. 24703 Pterodroma lessonii (White-headed Petrel) Y 532. 25710 Pterodroma macroptera (Great-winged Petrel) Y 533. 25711 Pterodroma mollis (Soft-plumaged Petrel) Y 534. Pterogoringla polyommata Y 535. 24711 Puffinus assimilis subsp. assimilis (Little Shearwater) Y 536. 42344 Purnella albifrons (White-fronted Honeyeater) Y 537. Purpureicephalus spurius Y		
527. Pseudorhombus jenynsii 528. Pseudorhombus sp. 529. 48085 Psittacula krameri (Indian Ringnecked Parrot, Rose-ringed Parakeet) Y 530. 24702 Pterodroma brevirostris (Kerguelen Petrel) Y 531. 24703 Pterodroma lessonii (White-headed Petrel) Y 532. 25710 Pterodroma macroptera (Great-winged Petrel) Y 533. 25711 Pterodroma molis (Soft-plumaged Petrel) Y 534. Pterygotrigla polyommata Y 535. 24711 Puffinus assimilis subsp. assimilis (Little Shearwater) Y 536. 42344 Purrelia albifrons (White-fronted Honeyeater) Y 537. Purpureicephalus spurius Y		
528. Pseudorhombus sp. 529. 48085 Psittacula krameri (Indian Ringnecked Parrot, Rose-ringed Parakeet) Y 530. 24702 Pterodroma brevirostris (Kerguelen Petrel) Y 531. 24703 Pterodroma lessonii (White-headed Petrel) Y 532. 25710 Pterodroma macroptera (Great-winged Petrel) Y 533. 25711 Pterodroma mollis (Soft-plumaged Petrel) Y 534. Pterygotrigla polyommata Y 535. 24711 Puffinus assimilis subsp. assimilis (Little Shearwater) Y 536. 42344 Purnelia albifrons (White-fronted Honeyeater) Y 537. Purpureicephalus spurius Y		
529.48085Psittacula krameri (Indian Ringnecked Parrot, Rose-ringed Parakeet)Y530.24702Pterodroma brevirostris (Kerguelen Petrel)		
530.24702Pterodroma brevirostris (Kerguelen Petrel)531.24703Pterodroma lessonii (White-headed Petrel)532.25710Pterodroma macroptera (Great-winged Petrel)533.25711Pterodroma mollis (Soft-plumaged Petrel)534.Pterygotrigla polyommata535.24711Puffinus assimilis subsp. assimilis (Little Shearwater)536.42344Purnella albifrons (White-fronted Honeyeater)537.Purpureicephalus spurius		
531.24703Pterodroma lessonii (White-headed Petrel)532.25710Pterodroma macroptera (Great-winged Petrel)533.25711Pterodroma mollis (Soft-plumaged Petrel)534.Pterygotrigla polyommata535.24711Puffinus assimilis subsp. assimilis (Little Shearwater)536.42344Purnella albifrons (White-fronted Honeyeater)537.Purpureicephalus spurius		
532.25710Pterodroma macroptera (Great-winged Petrel)533.25711Pterodroma mollis (Soft-plumaged Petrel)534.Pterygotrigla polyommata535.24711Puffinus assimilis subsp. assimilis (Little Shearwater)536.42344Purnella albifrons (White-fronted Honeyeater)537.Purpureicephalus spurius		
533.25711Pterodroma mollis (Soft-plumaged Petrel)534.Pterygotrigla polyommata535.24711Puffinus assimilis subsp. assimilis (Little Shearwater)536.42344Purnella albifrons (White-fronted Honeyeater)537.Purpureicephalus spurius		
534.Pterygotrigla polyommata535.24711Puffinus assimilis subsp. assimilis (Little Shearwater)536.42344Purnella albifrons (White-fronted Honeyeater)537.Purpureicephalus spurius		
535.24711Puffinus assimilis subsp. assimilis (Little Shearwater)536.42344Purnella albifrons (White-fronted Honeyeater)537.Purpureicephalus spurius		
536.42344Purnella albifrons (White-fronted Honeyeater)537.Purpureicephalus spurius		
537. Purpureicephalus spurius		
538. 25008 Pygopus lepidopodus (Common Scaly Foot)		
p is a collaborative project of the Department of Biodiversity, Conservation and Attractions and the Western Australian Museum.	Biodiversity,	

100. Acade Access (March Acade, Nation		Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Quer Area
14.1 24.24 Athen service 30 (Note Note) Y 45.3 Absorbed anoman Intermediate 3000 (Note Note) Intermediate 3000 (Note Note) 45.4 Absorbed anoman Intermediate 3000 (Note Note) Intermediate 3000 (Note Note) 45.4 Absorbed anoman Intermediate 3000 (Note Note) Intermediate 3000 (Note Note) 45.4 Absorbed anoman Intermediate 3000 (Note Note) Intermediate 3000 (Note Note) 45.4 Absorbed anoman Intermediate 3000 (Note Note) Intermediate 3000 (Note Note) 55.4 Attack Note 3000 (Note Note) Intermediate 3000 (Note Note) Intermediate 3000 (Note Note) 55.4 Attack Note 3000 (Note Note) Intermediate 3000 (Note Note) Intermediate 3000 (Note Note) 55.4 Attack Note 3000 (Note Note) Intermediate 3000 (Note Note) Intermediate 3000 (Note Note) 55.5 Attack Note 3000 (Note Note) Intermediate 3000 (Note Note) Intermediate 3000 (Note Note) 56.5 Attack Note 3000 (Note Note) Intermediate 3000 (Note Note) Intermediate 3000 (Note Note) 57.6 Attack Note 3000 (Note Note) Intermediate 3000 (Note Note) Intermediate 3000 (Note)						
14.2 24.24.6 Restrictly array (Back Ref) γ 54.4 - Restrictly array (Back Ref) - - 54.4 - Restrictly array (Back Ref) - - - 54.4 - Restrictly array (Back Ref) - <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
9-13						
i According only backgroup only according on a		24245		Y		
Single Part Part Part Part Part Part Part Part						
94. Part Proceedings of the Society of t						
9477 Reserve and parket absorption (Weile Weiger) 948 Papkan absorption (Weile Weiger) 959 2581 Papkan absorption (Weile Weiger) 951 97 Testable assorble (Australo Response) (Weile Weiger) 951 97 Testable assorble (Australo Response) (Weile Weiger) 953 97 Testable assorble (Australo Response) (Weile Weiger) 953 97 Stable Mericangerni Testable assorble Mericangerni 954 95 Stable Mericangerni Testable assorble Mericangerni Testable assorble Mericangerni 955 97 Stable Mericangerni Testable assorble Mericangerni Testable assorble Mericangerni 955 97 97 97 Testable Mericangerni Testable Mericangerni 956 97 97 97 97 97 97 97 957 97						
94 4400 Hadra Hackgring (Kink Hagan) 95 9440 Hadra Hackgring (Kink Hagan) 95 4423 Hadra Hackgring (Kink Hagan) 95 4237 Kanka Hackgring (Kink Hagan) 95 Sanda Hackgring (Kink Hagan) 1 95 Sanda Hackgring (Kink Hagan) 1 1 95 Sanda Hackgring (Kink Hackgrin		0.4770				
64.3 2614 Pingdon Rescondyrg (Main Megala) 55.1 MC Pindon Rescondyrg (Main Megala) T 55.2 MC Pindon Rescondyrg (Main Megala) T 55.3 Sandbaska advera T 55.4 MC Pindon Rescondyrg (Main Megala) T 55.3 Sandbaska de munu? T 55.4 Sandbaska de munu? T 55.5 Sandbaska de munu? T 55.6 Sandbaska de munu? T 55.7 Sandbaska de munu? T 55.8 Sandbaska de munu? T 55.9 Sandbaska de munu? T 55.1 Sandbas de munu? T 55.2 Sandbaska de munu? T 55.3 Sandbaska de munu? T 55.4 Sandbaska de munu? T 55.5 Sandbaska de munu? T						
92 2445 Physical subscription (New Yorgen) 932 4227 Notational subscription (Justication Pairing Strippion) T 934 93 Subscription (Justication Pairing Strippion) T 935 Subscription (Justication Pairing Strippion) T T 936 Subscription (Justication Pairing Strippion) T T 937 Subscription (Justication Pairing Strippion) T T 938 Subscription (Justication Pairing Strippion) T T 938 Subscription (Justication Pairing Strippion) T T T 939 Subscription (Justication Pairing Strippion) T T T 930 Subscription Pairing Strippion (Justication Pairing Strippion) T T T 931 Subscription Pairing Strippion (Justication Pairing Strippion) T T T 931 Su						
901. Paymetrok service (karsine) Paireted Single) T 953. Service kernice (karsine) Paireted Single) T 954. Sociopardie kernice T 955. Sociopardie kernice T 957. Sociopardie kernice T 957. Sociopardie kernice T 957. Sociopardie kernice T 958. Sociopardie kernice T 959. Sociopardie kernice T 950. Sociopardie Kernice T 951. Sociopardie Kernice T 952. Sociopardie Kernice T 953. Sociopardie Kernice T 954. Sociopardie Kernice T 955. Sociopardie Kernice T 956. Sociopardie Kernice T 957. Sociopardie Kernice T 957. Sociopardie Kernice T T <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
943 Postan Paramatic (Autoling Paramat Suppl) T 954 Sontroling Innovania Innovania 954 Sontroling Innovania Innovania 955 Sontroling Innovania Innovania 956 Sontroling Innovania Innovania 957 Sontroling Innovania Innovania 958 Sontroling Innovania Innovania 958 Sontroling Innovania Innovania 958 Sontroling Innovania Innovania 958 Sontroling Innovania Innovania Innovania 959 Sontroling Innovania Innovania Innovania 950 Sontroling Innovania Innovania Innovania		24454				
Services Accounts Analysis formation					_	
64 Sourceptore base inclusioned in the second of the s		48237			I	
965 Sorderwice base 964 Sorderwice base 965 9500 hypos 976 9500 hypos 978 Sorder wice base 978 Sorder wice base 978 Sorder wice base 978 Sorder wice base 978 2415 Sorder wice base 978 Sorder wice base T 978 Sorder wice base T 978 Sorder wice base T T 978 Sorder wice base T T 978 Sorder wice based wice base T T 978 Sorder wice based wice base T T 978 Sorder wice based wice base T T T 978 Sorder wice based wice base T T T T 978 Sorder wice based wice bas						
1000 Society in control (ship) (Marke Young Society (Marke Young Young Society (Marke Young Young Young Society (Marke Young Yo			•			
957. 2254 Seriores intervising (White bounded Scruberron) 958. Seriores a melania T 959. Seriores a melania T 959. Seriores a melania T 951. 24145 Seconda theodytuing (Querkla) T 952. Sillago bound T T 953. Sillago bound T T 954. Seconda theodytuing (Querkla) T T 955. Sillago bound T T T 956. Sillago bound T T T 957. Sollago bound any prophanes T T T 958. Sollago bound bound T T T 959. Sollago bound bounds T T T 950. Sollago bound bounds T T T 957. Sollago bound bounds T T T 957. Spectra any profile defension bounds of profile defension bo						
958. Section spin bond 959. 24145 Section spin bonds/units (lockka) T 951. 2415. Section scheduly units T 953. 2455. Singela baseniak T 953. 2525. Singela baseniak T T 953. 2525. Singela baseniak T T 954. 2525. Singela baseniak T T 955. 2525. Singela baseniak T T 956. 2525. Singela baseniak T T 957. Singela baseniak T		05504				
1950 Services symbols 1951 24145 Services symbols T 1952 Sillage benarmatic IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		25534				
1940 2448 Setunki horizowa (Lukakia) T 1951 Sillago hanasa Sillago hanasa Sillago hanasa 1952 Sillago hanasa Sillago hanasa Sillago hanasa 1953 Sillago hanasa Sillago hanasa Sillago hanasa 1954 Sillago hanasa Sillago hanasa Sillago hanasa 1956 Sillago hanasa Sillago hanasa Sillago hanasa 1957 Sillago hanasa Sillago hanasa Sillago hanasa 1958 Sillago hanasa Sillago hanasa Sillago hanasa 1957 Sillago hanasa Sillago hanasa Sillago hanasa 1958 Sollago hanasa Sillago hanasa Sillago hanasa 1957 Sollago hanasa Sillago hanasa Sillago hanasa Sillago hanasa 1958 Sollago hanasa Sillago hanasa Aita Y 1958 Sollago hanasa Sillago hanasa Aita Y 1958 Sillago hanasa Sillago hanasa Aita Y Y 1958 Sillago hanasa Sillago hanasa Aita Y Y <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
1911 2416 Scillage Assampting T 1922 Sillage Assampting International Assampting International Assampting 1924 Sindard Assampting Sillage Assampting International Assampting 1924 Sindard Assampting Sillage Assampting International Assampting International Assampting 1926 Sillage Assampting Sillage Assampting International Assampting International Assampting 1928 Soldard Assampting Sillage Assampting International Assampting International Assampting 1929 Soldard Componits Soldard Componits International Assampting International Assampting 1921 Soldard Componits International Assampting International Assampting International Assampting 1921 Soldard Componits International Assampting International Assampting International Assampting 1921 State Assampting Soldard Componits International Assampting International Assampting 1923 Soldard Componits Soldard Componits International Assampting International Assampting 1924 Soldard Componits Soldard Componits International Assa						
1000 Sillago hass-mais 1000 Solgenthile hass-mais 1000 Solgenthile hass-mais 1000 Sillago hass-mais		04445	·		_	
103. Silinge burns 103. Simular marks 103. Simular sargraphanes 103. Sintering para sateleniss 103. Sintering para sateleniss 103. Sintering para sateleniss 103. Solean colf holes parved 104. Solean colf holes parved 105. Solean colf holes parved form 105. Solean colf holes barban divers (Gov Y ten) 105. Solean colf holes barban divers (Gov Y ten) 105. Solean colf holes barban divers (Gov Y ten) 105. Solean colf holes barban divers (Gov Y ten) 105. Solean colf holes barban divers (Gov Y ten) 105. Solean colf holes barban divers (Gov Y ten) 105. Solean colf holes barban divers (Gov Y ten) 105. Solean colf holes barban divers (Gov Y ten) 105. Solean colf holes barban divers (Gov Y ten) 105. Solean colf holes barban divers (Gov Y ten) 105. Solea		24145			I	
64. Similar tanuar 55. 252.60 56. Siphonogradue sayrophanes 56. Siphonogradue sayrophanes 56. Siphonogradue sayrophanes 56. Siberophanes 57. Solegradue steriosis 57. Solegradue steriosis 57. Solegradue steriosis 57. Sisterio statue sterios sterios, notholosis (Scole Terr) 57. Sisterio statue sterios sterios, notholosis (Scole Terr) 57. Sisterio statue sterios sterios, notholosis (Scole Terr) 57. Sisterio sterios sterios, notholosis (Scole Terr) 57. Sisterio sterios sterios, notholosis (Scole Terr) 58. Sisterio sterios sterios notholosis (Scole Terr) 58. Sisterio sterios sterios notholosis sterios terris sterios notholosis (Scole Terr) 58. Sisterio sterios sterios notholosis (Scole Terr) Tisterios 58. Sisterrios terris sterios notholosis (Scole Ter			-			
955. 2260 Sinknorgenuluus anglenaisis 956. Sinknorgenuluus anglenaisis 957. Sinknorgenuluus anglenaisis 958. 30648 Sinknorgenuluus anglenaisis 957. Sinknorgenuluus anglenaisis 958. Sinknorgenuluus anglenaisis 957. Sinknorgenuluus anglenaisis 958. Sinknorgenuluus anglenaisis 959. Sinknorgenuluus anglenaisis 959. Sinknorgenuluus anglenaisis 958. Sinknorgenuluus anglenaisis 958. Sinknorgenuluus anglenais 959. <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
66. Springopsky argingopanes 67. Smeingopane statematic 67. Smeingopane statematic 67. Suberadok kelnovs 67. Solvegradits velnovs 67. Solvegradits velnovs 67. Solvegradits velnovs 67. Sprine konstet kelnovs 67. Statuto kelnovs </td <td></td> <td>05000</td> <td></td> <td></td> <td></td> <td></td>		05000				
667. Smearing-pups mate/masis 568. 300448 Smicromia thereinatis (Weeebill) 570. Solegrandus letterniss 571. Solegrandus letterniss 572. Spratolodos robustana 573. Sternot occepeniss 574. 24517 574. 24517 575. 24522 576. 24525 577. 24525 577. 24526 578. 24525 578. 24525 578. 24528 578. 24528 578. 24528 578. 24528 588. 48694 588. 48695 588. 48695 598. 588. 598. 588. 598. 588. 598. 588. 2599. 588. 598. 588. 2599. 588. 2591. 588. 2591. 588. <		25266				
668. 90488 Sinconsis bravinstris (Weeball) 669. Solepandul lage trained. 671. Solepandul lage trained. 673. Solepandul lage trained. 674. Syltyma zygeena 675. Solepandul lage trained. 676. Solepandul lage trained. 677. Solepandul lage trained. 678. Solepandul lage trained. 678. 2425 Starma functiona subp. nucleixa (Solep Tam) A Y 678. 2458 Starma functiona subp. nucleixa (Common Tam) A Y 678. 2458 Starma hareneis (Common Tam) A Y 678. 2459 Starmahareneis (Fairy Tam) T 678. 2459 Starmahareneis (Fairy Tam) T 678. 2597 Starpato neavosa (Frackod Duck) T 678. 2593 Starpatopalia chinensis (Salut Tufe-Dove) Y 678. 25930 Starpatopalia senegalentis subp.anore						
588 Soleenodolichtpup purvet 570. Solegnattus leitensis 571. Sprittel Segnattus leitensis 572. Sprateloides robustus 573. Statado capeniai 574. 24517 575. 24525 575. 24525 576. 24525 577. 24525 578. A 577. 24525 58. Sterna functus subap, nubilosa (Sochy Tern) 577. 24525 58. Sterna functus subap, nubilosa (Sochy Tern) 578. 48545 58. Sterna hindo subap, nubilosa (Sochy Tern) 578. 48555 58. Sternation subap, nereis (Fairy Tern) 580. 48555 581. 25259 581. 2559 581. 2559 582. Sternation clinensis subap, nereis (Fairy Tern) 584. 2559 581. 2559 581. Sternation clinennis sisobap, singing subatatatatata ataphing subata subap, si						
57. Solegnethus lettensis 57.1 Spatial/objes robustus 57.2 Spatial/objes robustus 57.4 Stational spansibus (Arcie Solug) IA 57.5 24517 Stereno bengi (Creational Solug), Incluido Solug, Incluido Common Tem) IA Y 57.6 24528 Sterma Invoiso Subg, Incluido Common Tem) IA Y 57.6 24529 Sterma Invoiso Subg, Incluido Common Tem) IA Y 57.8 24529 Stermalopora argus T T 58.1 24529 Stermalopora argus T T 58.2 Sterpatopora argus T T T 58.3 25595 Strepatopolia anengolensis (Laghing Turle-Dove) Y T T 58.4 25580 Strepatopolia anengolensis (Laghing Turle-Dove) Y T T 59.1 <t< td=""><td></td><td>30948</td><td></td><td></td><td></td><td></td></t<>		30948				
571. Sprine zggene 572. Sprine likelinger robustus 573. Steetold expensis 574. 24517 575. 24528 576. 24525 577. 24526 577. 24525 577. 24525 577. 24525 578. 24525 578. 24525 578. 24525 578. 24525 578. 24525 578. 24525 578. 24525 578. 24525 578. 24525 578. 24525 578. 24525 578. 24525 578. 24525 578. 24525 578. 25757 578. 25758 578. 25505 5775. 25505 577570000 Y 588. 255015 57757000000000000000000000000000000000						
572. Spratelloxies orbustus 573. Stelloxi acquenzis 574. 2451 Sterona kengdi (Cristel gengr, Arctic Skua) IA 575. 2452 Sterna kengdi (Cristel Tern) IA Y 576. 2452 Sterna kengdi Skooty Tern) IA Y 577. 2452 Sterna hundo subap. hundo (Common Tern) IA Y 578. 2453 Sterna hundo subap. hundo (Common Tern) IA Y 578. 2453 Sterna horde subap. numelis (Pairy Tern) T I 588. 2559 Strepatopone argues T I I 588. 2559 Strepatopone argues T I I 588. 2559 Strepatopone argues T I I 588. 2559 Strepatopelia chinensis (Skooted Turle-Dove) Y I I I 588. 2559 Strepatopelia chinensis subap. spingens s			-			
573. Stantada capensia 574. 24517. Stercoranis parasitious (Arcicic jaeger, Arcicic Skua) IA 575. 24522. Stermo builloss (Score) (Crested Tern) IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						
1574. 24517 Sterocoratus parasiticus (Arctic jaeger, Arctic Skue) IA 1575. 24522 Sterma lungi (Created Tarn) IA Y 1576. 24523 Sterma lundos subse, hinudo (Common Tern) IA Y 1578. 24523 Sterma hundos subse, notalos (Sooty Tern) T 1579. 44593 Sterma hundo subse, notalos (Sooty Tern) T 1580. 44593 Sterma hundo subse, notalos (Fairy Torn) T 1581. 2432 Sterma hundos subse, notalos (Fairy Torn) T 1583. 25597 Strapatopora argus T 1584. 25589 Straphopolis chrenzis (Soutof Turte-Dove) Y T 1585. 30951 Straphopolis chrenzis (Soutof Turte-Dove) Y T 1586. 25590 Straphopolis sengalaniss (Laughting Turtle-Dove) Y T 1588. 25518 Straphopurus subse, spingerus T T 1589. 25518 Straphopurus subse, spingerus T T 1580. 25518 Straphopurus straphurus T T 1591. 24424 Straph						
575. 24522 Stema fuscate subp. nublicas (Gooy Tern) 576. 24525 Stema fuscate subp. nublicas (Gooy Tern) IA Y 577. 24525 Stema funcado Subp. Intuinos (Common Tern) IA Y 578. 24528 Stema hurdo (Common Tern) IA Y 579. 44595 Stemula nereis (Fairy Tern) T 580. 44595 Stemula nereis (Fairy Tern) T 581. 24525 Strept Nereis (Fairy Tern) T 582. Stigmatopora argus Stemula nereis (Fairy Tern) T 584. 25595 Streptopelia chinensis (Spotted Turle-Dove) Y Stemula nereis (Fairy Tern-Dove) 586. 30951 Streptopelia senegalensis (Laughing Turle-Dove) Y Stemula nereis (Fairy Tern-Dove) 586. Storoghurus spingerus Y Stemula nereis (Fairy Tern-Dove) Y 587. 30950 Streptopelia senegalensis (Laughing Turle-Dove) Y Stemula nereis (Fairy Tern-Dove) Y 588. Strongyturu leiura Stemula nereis (Fairy Tern-Dove) Y Stemula nereis (Fairy Tern-Dove) Y 589. Strongyt		04547				
576. 24525 Sterm Anaroa is usbep. Initudio S(Sody Term) IA Y 577. 24526 Sterm A Initudio Subsp. Initudio (Common Term) IA Y 578. 24525 Sterm A Initudio Subsp. Initudio (Common Term) IA Y 578. 24525 Sterm Janoia (Common Term) IA Y 578. 24525 Sterm Janoia (Common Term) I I 578. 24525 Sterm Janoia (Common Term) T I 580. 48595 Sterm Janoia (Common Term) T I I 581. 24525 Sterm Janoia (Common Term) T I <tdi< td=""><td></td><td></td><td></td><td></td><td>IA</td><td></td></tdi<>					IA	
577. 24528 Sterna hirundo subsp. hirundo (Common Term) IA Y 578. 24528 Storna hybride subsp. javanica (Whiskered Term) IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						
578. 24528 Sternuk nereis (Feiry Tern) T 579. 48595 Sternuk nereis (Feiry Tern) T 580. 24529 Sitconetta nereis subp. nereis (Fairy Tern) T 581. 24329 Sitconetta nereis (Freckled Duck) T 582. Sigmatopora argus Sigmatopora argus Sigmatopora argus 583. 25597 Streptopelia chinensis (Spotted Turle-Dove) Y Sigmatopora argus 584. 25598 Streptopelia senegalensis (Dayted Turle-Dove) Y Sigmatopora argus 585. 30951 Streptopelia senegalensis (Spotted Turle-Dove) Y Sigmatopora argus 586. 25598 Streptopelia senegalensis subp. senegalensis (Laughing Turle-Dove) Y Sigmatopora argus 587. 30951 Streptopelia senegalensis subp. senegalensis (Laughing Turle-Dove) Y Sigmatopora argus 588. Strong/lura keina Strong/lura keina Sigmatopora argus Sigmatopora argus 590. 24942 Strophurus spinigenus Sigmatopora argus Sigmatopora argus Sigmatopora argus 591. 24942 Strophurus spinigenus Y Sigmatopora argu						
579. 48594 Sternula nereis (Fairy Tern) T 580. 48595 Sternula nereis subsp. nereis (Fairy Tern) T 581. 24232 Stictonetta naevosa (Freckled Duck) T 582. Stigmatopora argus Stifter (Straget a Versicolor) Y 583. 25597 Streptopelia chinensis (Spotted Turtle-Dove) Y Stifter (Straget a Versicolor) Y 586. 25509 Streptopelia chinensis (Spotted Turtle-Dove) Y Stifter (Straget a Versicolor) Y 587. 30950 Streptopelia senegalensis (Laughing Turtle-Dove) Y Stifter (Straget a Versicolor) Y 588. Strongylura leiura Streptopelia senegalensis (Laughing Turtle-Dove) Y Stifter (Straget a Versicolor) Y 589. 24518 Strophurus spinigerus Streptopelia senegalensis (Laughing Turtle-Dove) Y Stifter (Straget a Versicolor) Stifter (IA	Y
580. 48595 Sternula nerels subsp. nerels (Fairy Tern) T 581. 24292 Stetchefa naevosa (Freckled Duck) 582. Stigmatopora argus 583. 22557 Strepara versicolor (Grey Curravong) Y 584. 25589 Streptopelia chinensis (Spotted Turtle-Dove) Y 585. 30951 Streptopelia seniegalensis (Laughing Turtle-Dove) Y 586. 25590 Streptopelia seniegalensis (Laughing Turtle-Dove) Y 587. 30950 Streptopelia seniegalensis (Laughing Turtle-Dove) Y 588. 25518 Strophurus spinigerus 589. 2518 Strophurus spinigerus 591. 24942 Strophurus spinigerus Y 592. Supunna funerea Y 593. Supunna picta Y 594. 24255 Sus corda (Pag) Y 595. Sutorectus terniaculatus Y						
581. 24329 Sticonetta naevosa (Freckled Duck) 582. Stigmatopora argus 583. 25597 Streptopelia chinensis (Spotted Turtle-Dove) Y 585. 30951 Streptopelia chinensis (Spotted Turtle-Dove) Y 586. 25590 Streptopelia chinensis (Subgr. tigrina (Spotted Turtle-Dove) Y 586. 25050 Streptopelia senegalensis (Laughing Turtle-Dove) Y 587. 30950 Streptopelia senegalensis (Laughing Turtle-Dove) Y 588. Stronylura laira Streptopelia senegalensis subsp. spinigerus Y 589. 2518 Strophrus spinigerus subsp. spinigerus Y 590. 24942 Strophrus spinigerus subsp. spinigerus Y 591. 24945 Strophrus spinigerus subsp. spinigerus Y 592. Supunna hunerea Y Y 593. Supurna picta Y Y 594. 24259 Sus sorola (Pig) Y 595. Sutorectus tentaculatus Y Y 596. 33992 Synothele rastelloides Y 597. Subretotal antichaetas			• •		_	
582. Stigmalopora argus 583. 25597 Streptopelia chinensis (Spotted Turtle-Dove) Y 584. 25590 Streptopelia chinensis (Laughing Turtle-Dove) Y 586. 25590 Streptopelia senegalensis (Laughing Turtle-Dove) Y 587. 30950 Streptopelia senegalensis (Laughing Turtle-Dove) Y 588. Strophynlura leiura Y Y 589. 25518 Strophurus spinigerus Y 589. 25418 Strophurus spinigerus Y 590. 24442 Strophurus strophurus Strophurus strophurus Y 591. 24464 Strophurus strophurus Y Y 592. Supunna funere Y Y Y 593. Supunna picta Y Y Y 594. 24259 Sus corla (Fig) Y Y 595. Sutorectus tentaculatus Y Y 596. 33992 Synothele michaelseni Y Y 597. Tachybaptus novaeh					I	
583. 25597 Streptopelia chinensis (Spotted Turle-Dove) Y 584. 25589 Streptopelia chinensis (Spotted Turle-Dove) Y 585. 30951 Streptopelia chinensis subsp. tigrina (Spotted Turle-Dove) Y 586. 25590 Streptopelia senegalensis (Laughing Turle-Dove) Y 587. 30950 Streptopelia senegalensis (Laughing Turle-Dove) Y 588. Stronglura leiura Stronglura leiura 589. 25518 Strophurus spinigerus Strophurus spinigerus 590. 24942 Strophurus spinigerus Strophurus spinigerus 591. 24946 Strophurus strophurus Supunna licta 592. Supunna licta Y Strophurus spinigerus 593. Supurna picta Y Y 594. 24259 Sus sorda (Pg) Y 595. Sutorectus tentaculatus Y Y 596. 33992 Synothele michaelseni Y 598. Synothele rastelloides Synothele rastelloides Y 599. 25705 Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe) <		24329				
584. 25589 Streptopelia chinensis (Spotted Turtle-Dove) Y 585. 30951 Streptopelia chinensis subsp. tigrina (Spotted Turtle-Dove) Y 586. 25590 Streptopelia senegalensis (Laughing Turtle-Dove) Y 587. 30950 Streptopelia senegalensis (Laughing Turtle-Dove) Y 588. Strong/tura leira Y 589. 25518 Strophurus spinigerus subsp. spinigerus 590. 24942 Strophurus strophurus spinigerus subsp. spinigerus 591. 24942 Strophurus strophurus 592. Su sorofa [Pg] Y 593. Supunna funerea Y 594. 24259 Sus sorofa [Pg] Y 595. Sutorectus tentaculatus Y 596. 33922 Synothele michaelseni Y 597. Synothele michaelseni P4 S 598. Synothele michaelseni P4 S 599. 25705 Tachybaptus novaehollandiae (Australasian Grebe, Black-troated Grebe) S 600. 24622 Tachybaptus novaehollandiae (Australasian Grebe, Black-trotroated Grebe) S <td></td> <td>05507</td> <td></td> <td></td> <td></td> <td></td>		05507				
585. 30951 Streptopelia chinensis subsp. tigrina (Spotted Turtle-Dove) Y 586. 25590 Streptopelia senegalensis (Laughing Turtle-Dove) Y 587. 30950 Streptopelia senegalensis (Laughing Turtle-Dove) Y 587. 30950 Streptopelia senegalensis (Laughing Turtle-Dove) Y 588. Strophytura laina Y 589. 25518 Strophurus spinigerus 590. 24942 Strophurus spinigerus 591. 24946 Strophurus spinigerus 592. Supunna funerea 593. Supunna funerea 594. 24259 Sus scrofa (Pig) 595. Sutorectus tentaculatus 596. 33992 Symothe michaelseni 597. Synothele michaelseni P4 598. Synothele michaelseni P4 598. Synothele rastelloides P4 599. 25705 Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe) P4 600. 24682 Tachybaptus novaehollandiae subsp. novaehollandiae (Australasian						
586. 25590 Streptopelia senegalensis (Laughing Turtle-Dove) Y 587. 30950 Streptopelia senegalensis subsp. senegalensis (Laughing Turtle-Dove) Y 588. Strongylura leiura Strongylura leiura 589. 2518 Strophurus spinigerus subsp. spinigerus 590. 24942 Strophurus spinigerus subsp. spinigerus 591. 24946 Strophurus strophurus 592. Supunna lunerea Supuna jota 593. Supuna jota Y 594. 2459 Su scorla (Pig) Y 595. Sutorectus tentaculatus Y 596. 33992 Synemon gratiosa (Graceful Sunmoth) P4 597. Synothele michaelseni Y 598. Strophuzus novaehollandiae (Australasian Grebe, Black-throated Grebe) E 600. 24682 Tachybapus novaehollandiae (Short-beaked Echidna) E 601. 24207 Tachydapus novaehollandiae (Australasian Grebe, Black-throated Grebe) E 603. 24331 Tadorna tadornoides (Australian Shelduck) E 603. 24331 Tadorna tadornoide (Australian Shelduck, Mountain Duck)<						
587. 30950 Streptopelia senegalensis subsp. senegalensis (Laughing Turtle-Dove) Y 588. Strongylura leiura 589. 25518 Strophurus spinigerus 590. 24942 Strophurus spinigerus 591. 24944 Strophurus spinigerus 592. Supunna funerea 593. Supunna picta 594. 24529 Sus scrofa (Pig) 595. Sutorectus tentaculatus 596. 33992 Synothele michaelseni 597. Synothele rastelloides 598. Synothele rastelloides 599. 25705 Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe) 600. 24682 Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe) 601. 24007 Tachybaptus novaehollandiae kustralasian Grebe, Black-throated Grebe) 603. 24932 Stromatian Shelduck) Extended Grebe) 604. Tamopsis autilation Shelduck, Mountain Duck) Tadoma radjah (Radjah Shelduck, Mountain Duck) Extended Grebe 605. Tandanus bostocki Tandanus bostocki Fandanus bostocki Fandanus bostocki 606.<						
588. Strongylura leiura 589. 25518. 590. 24942. 590. 24942. 591. 24946. 592. Supunna singerus subsp. spinigerus 593. Supunna funerea 594. 24259. 594. 24259. Suborna funerea Y 595. Sutorectus tentaculatus 596. 33992. Synothele michaelseni P4 597. Synothele rastelloides 598. Synothele rastelloides 599. 25705. 7achybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe) 600. 24682. 7achybaptus novaehollandiae subsp. novaehollandiae (Australasian Grebe, Black-throated Grebe) 601. 24007. 7achyglosus aculeatus (Short-beaked Echidna) 1 602. 25552. 7adorna radjah (Radjah Shelduck) 1 603. 24331. Tadorna radjah (Radjah Shelduck, Mountain Duck) 604. Tamopsis perthensis 1 605. Tamopsis perthensis 1 606.						
589. 25518 Strophurus spinigerus 590. 24942 Strophurus spinigerus subsp. spinigerus 591. 24946 Strophurus strophurus 592. Supunna hunerea 593. Supunna picta 594. 24255 Su scrofa (Pig) 595. Sutorectus tentaculatus 596. 33992 Synothele michaelseni 597. Synothele michaelseni 598. Synothele rastelloides 599. 25705 Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe) 600. 24822 Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe) 601. 24207 Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe) 601. 24207 Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe) 601. 24207 Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe) 602. 25552 Tadorna radjah (Radjah Shelduck) 603. 2433 Tadorna tadornoides (Australian Shelduck, Mountain Duck) 604. Tamopsis darlingtoniana 605. Tandanus bostocki 606. Tandanus b		30950		Y		
590. 24942 Strophurus spinigerus subsp. spinigerus 591. 24946 Strophurus strophurus 592. Supunna picta 593. Supunna picta 594. 24259 Sus scrofa (Pig) 595. Sutorectus tentaculatus 596. 33922 Synemon gratiosa (Graceful Sunmoth) 597. Synothele michaelseni 598. Synothele rastelloides 599. 25705 Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe) 600. 24682 Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe) 601. 24207 Tachybaptus sculeatus (Short-beaked Echidna) 602. 25552 Tadorna radjah (Radjah Shelduck) 603. 24331 Tadorna radjah Shelduck, Mountain Duck) 604. Tamopsis dafingtoniana 605. Tandanus bostocki 606. Tandanus bostocki 607. 24167 Tarsipes rostratus (Honey Possum, Noolbenger)						
591. 24946 Strophurus strophurus 592. Supunna funerea 593. Supunna picta 594. 24259 Sus scrofa (Pig) 595. Sutorectus tentaculatus 596. 33992 Synothele michaelseni 597. Synothele michaelseni 598. Synothele rastelloides 599. 25705 Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe) 600. 24682 Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe) 601. 2407 Tachybaptus novaehollandiae subsp. novaehollandiae (Australasian Grebe, Black-throated Grebe) 601. 2407 Tachybaptus aculeatus (Short-beaked Echidna) 602. 25552 Tadoma tadomoides (Australian Shelduck, Mountain Duck) 603. 2431 Tadoma tadomoides (Australian Shelduck, Mountain Duck) 604. Tamopsis darlingtoniana 605. Tandenus bostocki 606. Tandanus bostocki 607. 24167 Tarsipes rostratus (Honey Possum, Noolbenger)						
592. Supunna funerea 593. Supunna picta 594. 24259 Sus scrofa (Pig) Y 595. Sutorectus tentaculatus Y 596. 33992 Symothele michaelseni P4 597. Synothele michaelseni P4 598. Synothele rastelloides P4 599. 25705 Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe) P4 600. 24682 Tachybaptus novaehollandiae subsp. novaehollandiae (Australasian Grebe, Black-throated Grebe) P4 601. 24207 Tachybaptus novaehollandiae subsp. novaehollandiae (Australasian Grebe, Black-throated Grebe) P4 602. 25552 Tadorna tadornoides (Australian Shelduck) P4 603. 2431 Tadorna tadornoides (Australian Shelduck, Mountain Duck) P4 604. Tamopsis perthensis Tandanus bostocki Tandanus bostocki 605. Tandanus bostocki Tandanus bostocki Y 606. Zatarus bostocki Y Y						
593. Supunna picta 594. 24259 Sus scrofa (Pig) Y 595. Sutorectus tentaculatus P4 596. 33992 Synemon gratiosa (Graceful Sunmoth) P4 597. Synothele michaelseni Synothele rastelloides 598. Synothele rastelloides Synothele rastelloides 599. 25705 Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe) 600. 24682 Tachybaptus novaehollandiae subsp. novaehollandiae (Australasian Grebe, Black-throated Grebe) 601. 2407 Tachyglossus aculeatus (Short-beaked Echidna) 602. 25552 Tadoma radjah (Radjah Shelduck) 603. 2431 Tadoma tadomoides (Australian Shelduck, Mountain Duck) 604. Tamopsis perthensis Tadoma tadomoides (Australian Shelduck, Mountain Duck) 605. Tamopsis perthensis Gottoma tadomoides (Australian Shelduck, Mountain Duck) 606. Tandanus bostocki Gottoma tadomoides (Australian Shelduck) 607. 24167 Tarsipes rostratus (Honey Possum, Noolbenger)		24946				
594. 24259 Sus scrofa (Pig) Y 595. Sutorectus tentaculatus P4 596. 33992 Synemon gratiosa (Graceful Sunmoth) P4 597. Synothele michaelseni P4 598. Synothele rastelloides P4 599. 25705 Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe) P4 600. 24682 Tachybaptus novaehollandiae subsp. novaehollandiae (Australasian Grebe, Black-throated Grebe) P4 601. 24207 Tachybaptus novaehollandiae subsp. novaehollandiae (Australasian Grebe, Black-throated Grebe) P4 602. 25552 Tadoma radjah (Radjah Shelduck) P4 603. 24331 Tadoma tadomoides (Australian Shelduck, Mountain Duck) P4 604. Tamopsis darlingtoniana P4 P4 605. Tandanus bostocki P4 P4 606. Tandanus bostocki P4 P4 607. 24167 Tarsipes rostratus (Honey Possum, Noolbenger) P4			•			
595. Sutorectus tentaculatus 596. 33992 Synemon gratiosa (Graceful Sunmoth) P4 597. Synothele michaelseni 598. 598. Synothele rastelloides 599. 599. 25705 Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe) 600. 600. 24682 Tachybaptus novaehollandiae subsp. novaehollandiae (Australasian Grebe, Black-throated Grebe) 601. 601. 24207 Tachyglossus aculeatus (Short-beaked Echidna) 602. 602. 25552 Tadorna radjah (Radjah Shelduck) 603. 603. 24331 Tadorna tadornoides (Australian Shelduck, Mountain Duck) 604. 605. Tamopsis darlingtoniana 605. Tamopsis perthensis 606. Tandanus bostocki 607. 24167 Tarsipes rostratus (Honey Possum, Noolbenger)		0.100				
596. 33992 Synemon gratiosa (Graceful Sunmoth) P4 597. Synothele michaelseni Synothele rastelloides 598. Synothele rastelloides Synothele rastelloides 599. 25705 Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe) Solo 600. 24682 Tachybaptus novaehollandiae subsp. novaehollandiae (Australasian Grebe, Black-throated Grebe) Solo 601. 24207 Tachyglossus aculeatus (Short-beaked Echidna) Solo 602. 25552 Tadorna radjah (Radjah Shelduck) Solo 603. 24331 Tadorna tadornoides (Australian Shelduck, Mountain Duck) Solo 604. Tamopsis darlingtoniana Solo Solo 605. Tandanus bostocki Solo Solo 606. Tandanus bostocki Solo Solo 607. 24167 Tarsipes rostratus (Honey Possum, Noolbenger) Solo		24259		Y		
597. Synothele michaelseni 598. Synothele rastelloides 599. 25705 Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe) 600. 24682 Tachybaptus novaehollandiae subsp. novaehollandiae (Australasian Grebe, Black-throated Grebe) 601. 24207 Tachyglossus aculeatus (Short-beaked Echidna) 602. 25552 Tadorna radjah (Radjah Shelduck) 603. 24331 Tadorna tadornoides (Australian Shelduck, Mountain Duck) 604. Tamopsis darlingtoniana 605. Tanopsis perthensis 606. Tandanus bostocki 607. 24167 Tarsipes rostratus (Honey Possum, Noolbenger)						
598. Synothele rastellioides 599. 25705 Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe) 600. 24682 Tachybaptus novaehollandiae subsp. novaehollandiae (Australasian Grebe, Black-throated Grebe) 601. 24207 Tachyglossus aculeatus (Short-beaked Echidna) 602. 25552 Tadorna radjah (Radjah Shelduck) 603. 24331 Tadorna tadornoides (Australian Shelduck, Mountain Duck) 604. Tamopsis darlingtoniana 605. Tamopsis perthensis 606. Tandanus bostocki 607. 24167 Tarsipes rostratus (Honey Possum, Noolbenger)		33992			P4	
599. 25705 Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe) 600. 24682 Tachybaptus novaehollandiae subsp. novaehollandiae (Australasian Grebe, Black-throated Grebe) 601. 24207 Tachyglossus aculeatus (Short-beaked Echidna) 602. 25552 Tadorna radjah (Radjah Shelduck) 603. 2431 Tadorna tadornoides (Australian Shelduck, Mountain Duck) 604. Tamopsis darlingtoniana 605. Tamopsis perthensis 606. Tandanus bostocki 607. 24167 Tarsipes rostratus (Honey Possum, Noolbenger)						
600. 24682 Tachybaptus novaehollandiae subsp. novaehollandiae (Australasian Grebe, Black-throated Grebe) 601. 24207 Tachyglossus aculeatus (Short-beaked Echidna) 602. 25552 Tadoma radjah (Radjah Shelduck) 603. 2431 Tadoma tadomoides (Australian Shelduck, Mountain Duck) 604. Tamopsis darlingtoniana 605. Tamopsis perthensis 606. Tandanus bostocki 607. 24167 Tarsipes rostratus (Honey Possum, Noolbenger)						
intracted Grebe) 601. 24207 7achyglossus aculeatus (Short-beaked Echidna) 602. 2555 7adorna radjah (Radjah Shelduck) 603. 24331 7adorna tadornoides (Australian Shelduck, Mountain Duck) 604. Tamopsis darlingtoniana 605. Tamopsis perthensis 606. Tandanus bostocki 607. 24167 7arsipes rostratus (Honey Possum, Noolbenger)						
601. 24207 Tachyglossus aculeatus (Short-beaked Echidna) 602. 25552 Tadorna radjah (Radjah Shelduck) 603. 24331 Tadorna tadornoides (Australian Shelduck, Mountain Duck) 604. Tamopsis darlingtoniana 605. Tamopsis perthensis 606. Tandanus bostocki 607. 24167 Department of Biodwesity.	600.	24682				
602. 25552 Tadoma radjah (Radjah Shelduck) 603. 24331 Tadoma tadomoides (Australian Shelduck, Mountain Duck) 604. Tamopsis darlingtoniana 605. Tamopsis perthensis 606. Tandanus bostocki 607. 24167 Tarsipes rostratus (Honey Possum, Noolbenger)						
603. 24331 Tadorna tadornoides (Australian Shelduck, Mountain Duck) 604. Tamopsis darlingtoniana 605. Tamopsis perthensis 606. Tandanus bostocki 607. 24167 Tarsipes rostratus (Honey Possum, Noolbenger)						
604. Tamopsis darlingtoniana 605. Tamopsis perthensis 606. Tandanus bostocki 607. 24167 7 arrsipes rostratus (Honey Possum, Noolbenger)			• • • •			
605. Tamopsis perthensis 606. Tandanus bostocki 607. 24167 Tarsipes rostratus (Honey Possum, Noolbenger)	000	24331				
606. Tandanus bostocki 607. 24167 Tarsipes rostratus (Honey Possum, Noolbenger)						
607. 24167 Tarsipes rostratus (Honey Possum, Noolbenger)	604.		Tamopsis perthensis			
Department of Biodiversity.	604. 605.					
	604. 605. 606.					
ap is a collaborative project of the Department of Biodiversity, Conservation and Attractions and the Western Australian Museum.	604. 605. 606.	24167				

I	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
608.		Tasmanicosa leuckartii			
609.		Terapon sp.			
610.		Tetragnatha demissa			
611.		Tetragnatha nitens			
612.	48597	Thalasseus bergii (Crested Tern)		IA	
613.	48135	Thinornis rubricollis (Hooded Plover, Hooded Dotterel)		P4	
614.	48136	Threskiornis moluccus (Australian White Ibis)			
615.	24845	Threskiornis spinicollis (Straw-necked Ibis)			
616.	33994	Throscodectes xiphos (Stylet Bush Cricket, Stylet Throsco (Jandakot))		P1	Y
617.	25203	Tiliqua occipitalis (Western Bluetongue)			
618.	25519	Tiliqua rugosa			
619.	25204	Tiliqua rugosa subsp. aspera			
620.	25207	Tiliqua rugosa subsp. rugosa			
621.		Tinytrema yarra			
622.	25549	Todiramphus sanctus (Sacred Kingfisher)			
623.	24309	Todiramphus sanctus subsp. sanctus (Sacred Kingfisher)			
624.		Torquigener pleurogramma			
625.		Trachinocephalus myops			
626.	48141	Tribonyx ventralis (Black-tailed Native-hen)			
627.	25723	Trichoglossus haematodus (Rainbow Lorikeet)			
628.	24755	Trichoglossus haematodus subsp. moluccanus (Rainbow Lorikeet)	Y		
629.	24754	Trichoglossus haematodus subsp. rubritorquis (Red-collared Lorikeet)			
630.	25521	Trichosurus vulpecula (Common Brushtail Possum)			
631.	24158	Trichosurus vulpecula subsp. vulpecula (Common Brushtail Possum)			
632.		Tridentiger trigonocephalus			
633.	24803	Tringa brevipes (Grey-tailed Tattler)		P4	
634.	24806	Tringa glareola (Wood Sandpiper)		IA	
635.	30848	Tringa guttifer (Nordmann's Greenshank)			
636.	24808	Tringa nebularia (Common Greenshank, greenshank)		IA	
637.	24809	Tringa stagnatilis (Marsh Sandpiper, little greenshank)		IA	
638.		Trygonorrhina fasciata			
639.	48147	Turnix varius (Painted Button-quail)			
640.	24851	Turnix velox (Little Button-quail)			
641.	30954	Tursiops aduncus (Indo-Pacific Bottlenose Dolphin)			
642.	24069	Tursiops truncatus (Bottlenose Dolphin)			
643.	24852	Tyto alba subsp. delicatula (Barn Owl)			
644.	24855	Tyto novaehollandiae subsp. novaehollandiae (Masked Owl (southwest))		P3	
645.	24983	Underwoodisaurus milii (Barking Gecko)			
646.		Upeneus tragula			
647.		Urocampus carinirostris			
648.		Urodacus novaehollandiae			
649.	25577	Vanellus miles (Masked Lapwing)			
650.	24386	Vanellus tricolor (Banded Lapwing)			
651.	25218	Varanus gouldii (Bungarra or Sand Monitor)			
652.		Venator immansueta			
653.		Venatrix pullastra			
654.	24206	Vespadelus regulus (Southern Forest Bat)			
655.	24040	Vulpes vulpes (Red Fox)	Y		
656.	34113	Westralunio carteri (Carter's Freshwater Mussel)		Т	
657.		Westrarchaea sinuosa			
658.	41351	Xenus cinereus (Terek Sandpiper)		IA	
659.		Zachria flavicoma			
660.		Zebraplatys fractivittata			
661.	25765	Zosterops lateralis (Grey-breasted White-eye, Silvereye)			

Conservation Codes T - Rare or likely to become extinct X - Presumed extinct IA - Protected under international agreement S - Other specially protected fauna 1 - Priority 1 2 - Priority 2 3 - Priority 2 4 - Priority 4 5 - Priority 5

¹ For NatureMap's purposes, species flagged as endemic are those whose records are wholely contained within the search area. Note that only those records complying with the search criterion are included in the calculation. For example, if you limit records to those from a specific datasource, only records from that datasource are used to determine if a species is restricted to the query area.



Appendix C

Conservation Significant Species and Likelihood of Occurrence Assessment



Species	Common name	Level of significance		Habitat	Likelihood of occurrence within the site
		BC Act	EPBC Act		
Aves					
Anous stolidus	Common noddy	MI	MI	Tropical and subtropical seas, cayes, reefs, buoys and piles (Pizzey & Knight 2012).	Unlikely: No habitat present.
Anous tenuirostris melanops	Australian lesser noddy	EN	VU	Very common in blue-water seas around the Abrolhos (endemic to this area, accidental occurrences on lower west coast of Australia) (Johnstone and Storr 1998).	Unlikely: No habitat present.
Apus pacificus	Pacific swift	MI	MI	Aerial, migratory species that is most often seen over inland plains and sometimes above open areas, foothills or in coastal areas. Sometimes occurs over settled areas, including towns, urban areas and cities (Pizzey & Knight 2012).	Possible: May opportunistically occur in or fly over the site on commute or while searching for prey.
Ardenna carneipes	Flesh-footed shearwater	VU (MI)	MI	Marine species that breeds on islands off south coast from near Cape Leeuwin (Johnstone and Storr 1998).	Unlikely: No habitat present.
Arenaria interpres	Ruddy turnstone	MI	MI	Tidal mud and reef flats, sheltered rocky coasts, stony and seaweedy beaches and sandpits, dry coral ridges (Abrolhos) and pebbly shores of near-coastal saltlakes (including saltwork ponds) (Johnstone and Storr 1998).	Unlikely: No habitat present.
Botaurus poiciloptilus	Australasian bittern	EN	EN	In or over water, in tall reedbeds, sedges, rushes, cumbungi, lignum. Also occurs in ricefields, drains in tussocky paddocks and occasionally in saltmarshes and brackish wetlands (Pizzey and Knight 2012).	Unlikely: No habitat present.
Cacatua pastinator pastinator	Muir's corella	S	-	Wheat and sheep farming country with remnant native forest (Pizzey and Knight 2012).	Unlikely: Locally extinct.

Species	Common name	Level o signifi		Habitat	Likelihood of occurrence within the site
		BC Act	EPBC Act		
Aves					
Calidris acuminata	Sharp-tailed sandpiper	MI	MI	Occurs in tidal mudflats, saltmarshes and mangroves, as well as, shallow fresh,brackish or saline inland wetlands. It is also known from floodwaters, irrigated pastures and crops, sewage ponds, saltfields (Pizzey and Knight 2012).	Unlikely: No habitat present.
Calidris alba	Sanderling	MI	MI	Mainly steeply shelving sandy beaches exposed to ocean swell. Also sandy inlets, estuarine sandbanks and near- coastal saltlakes (including saltwork ponds) (Johnstone & Storr 1998).	Unlikely: No habitat present.
Calidris canutus	Red knot	VU (MI)	CR (MI)	Mud and sand flats in estuaries and on sheltered coasts. Also near-coastal saltlakes, including saltwork ponds (Pizzey and Knight 2012).	Unlikely: No habitat present.
Calidris canutus rogersi	-	VU (MI)	EN (MI)	Mud and sand flats in estuaries and on sheltered coasts. Also near-coastal saltlakes, including saltwork ponds (Pizzey and Knight 2012)	Unlikely: No habitat present.
Calidris ferruginea	Curlew sandpiper	VU (MI)	CR (MI)	Mainly shallows of estuaries and near-coastal saltlakes (including saltwork ponds) and drying near-coastal freshwater lakes and swamps. Also beaches and near-coastal sewage ponds (Pizzey and Knight 2012)	Unlikely: No habitat present.
Calidris melanotos	Pectoral sandpiper	MI	MI	Mainly fresh waters (swamps, lagoons, river pools, irrigation channels and sewage ponds); also samphire flats around estuaries and saltlakes (Johnstone & Storr 1998).	Unlikely: No habitat present.
Calidris ruficollis	Red-necked stint	MI	MI	Tidal mudflats, saltmarshes, sandy or shelly beaches, saline and freshwater wetlands (coastal and inland), saltfields, sewage ponds (Pizzey and Knight 2012).	Unlikely: No habitat present.

Species	Common name	Level of significance		Habitat	Likelihood of occurrence within the site
		BC Act	EPBC Act		
Aves					
Calidris subminuta	Long-toed stint	МІ	МІ	Mainly freshwater swamps (especially when drying and where vegetation is short), river pools, lagoons and claypans; also brackish pools, sewage ponds and samphire flats around estuaries and saltlakes (Pizzey and Knight 2012)	Unlikely: No habitat present.
Calidris tenuirostris	Great knot	VU (MI)	CR (MI)	Mud or sand flats in estuaries and on sheltered coasts. Also near-coastal saltlakes, including saltwork ponds (Pizzey and Knight 2012).	Unlikely: No habitat present.
Calyptorhynchus banksii naso	Forest red-tailed black cockatoo	VU	VU	Eucalypt and Corymbia forests, often in hilly interior. More recently also observed in more open agricultural and suburban areas including Perth metropolitan area. Attracted to seeding Corymbia calophylla, Eucalyptus marginata, introduced Melia azdarach and Eucalyptus spp. trees (Johnstone and Storr 1998)	Likely: Foraging habitat present.
Calyptorhynchus baudinii	Baudin's cockatoo	EN	EN	Mainly eucalypt forests. Attracted to seeding Corymbia calophylla, Banksia spp., Hakea spp., and to fruiting apples and pears (Johnstone and Storr 1998).	Possible: Species prefers dense eucalypt forests and does not usually occur in the Perth metropolitan area. However, it may occasionally fly over the site or forage opportunistically.
Calyptorhynchus latirostris	Carnaby's cockatoo	EN	EN	Mainly proteaceous scrubs and heaths and adjacent eucalypt woodlands and forests; also plantations of Pinus spp. Attracted to seeding Banksia spp., Dryandra spp., Hakea spp., Eucalyptus spp., Corymbia calophylla, Grevillea spp., and Allocasuarina spp. (Johnstone and Storr 1998).	Likely: Foraging habitat present.

Species	Common name	Level o signifi		Habitat	Likelihood of occurrence within the site
		BC Act	EPBC Act		
Aves					
Charadrius bicinctus	Double-banded plover	MI	MI	Wide beaches, tidal mudflats, saltmarsh, wide and sparsely vegetated marginsof shallow saline and freshwater wetlands, paddocks with sparse vegetation, ploughed fields, airfields (Pizzey & Knight 2012)	Unlikely: No habitat present.
Charadrius dubius	Little ringed plover	MI	MI	Open, muddy or sandy shores of lakes, swamps, tidal areas, sewage ponds or farm dams. Rare but regular summer migrant to Australia (Pizzey & Knight 2012).	Unlikely: No habitat present.
Charadrius Ieschenaultii	Great sand plover	VU (MI)	VU (MI)	Wide sandy or shelly beaches, sandpits, tidal mudflats, reefs, sand cays, mangroves, saltmarsh, dune wilderness, bare paddocks, seldom far inland (Pizzey & Knight 2012).	Unlikely: No habitat present.
Charadrius mongolus	Lesser sand plover	EN (MI)	EN (MI)	Sandy beaches and tidal estuarine flats. Also near- coastal saltlakes, including saltwork ponds (Johnstone & Storr 1998).	Unlikely: No habitat present.
Chlidonias leucopterus	White-winged black tern	MI	MI	Vegetated and open wetlands, brackish and saline lakes, saltfields, irrigated lands, sewage ponds and occasionally offshore (Pizzey & Knight 2012).	Unlikely: No habitat present.
Diomedea exulans exulans	Wandering albatross	VU (MI)	VU (MI)	Marine, pelagic and aerial species. It breeds on Macquarie Island and feeds in Australian portions of the Southern Ocean.	Unlikely: No habitat present.
Diomedea amsterdamensis	Amsterdam albatross	VU (MI)	EN (MI)	The Amsterdam albatross is a marine, pelagic seabird. It nests in open patchy vegetation (among tussocks, ferns or shrubs) near exposed ridges or hillocks (Weimerskirch et al. 1985). It sleeps and rests on ocean waters when not breeding (Marchant and Higgins 1990)	Unlikely: No habitat present.

Species	Common name	Level o signifi		Habitat	Likelihood of occurrence within the site
		BC Act	EPBC Act		
Aves	•				
Diomedea dabbenena	Tristan albatross	VU (MI)	EN (MI)	The Tristan albatross is a marine, pelagic seabird. It forages in open water in the Atlantic Ocean near the Cape of Good Hope, South Africa. It sleeps and rests on ocean waters when not breeding (Marchant and Higgins 1990).	Unlikely: No habitat present.
Diomedea epomophora	Southern royal albatross	VU (MI)	VU (MI)	Rare visitor to Western Australian seas; it breeds on subantarctic islands south of New Zealand (Johnstone and Storr 1998).	Unlikely: No habitat present.
Diomedea exulans exulans	Snowy albatross	VU (MI)	VU (MI)	Regular visitor to open ocean and slope waters (mostly March-October) and less commonly over shelf. Nests at high latitude in the southern Indian and southern Atlantic Oceans (Pizzey & Knight 2012)	Unlikely: No habitat present.
Diomedea sanfordi	Northern royal albatross	EN	EN	Species is marine, pelagic and aerial. Habitat includes subantarctic, subtropical, and occasionally Antarctic waters (Marchant & Higgins 1990). Rare visitors to south Western Australian waters.	Unlikely: No habitat present.
Falco peregrinus macropus	Australian peregrine falcon	S	-	Mainly about cliffs along coasts, rivers and ranges and about wooded watercourses and lakes (Johnstone and Storr 1998).	Unlikely: May fly over on commute.
Gallinago hardwickii	Latham's snipe	MI	MI	Soft, wet ground or shallow water with tussocks and other green or dead growth, wet parts of paddocks, seepage below dams, irrigated areas, scrub or open woodland from sea level to alpine bogs over 2000 m, samphire on saltmarshes and mangrove fringes. Rare visitor to Western Australia (Pizzey & Knight 2012)	Unlikely: No habitat present.
Gallinago megala	Swinhoe's snipe	MI	MI	Wet, grassy ground; edges of reedy swamps (Pizzey & Knight 2012).	Unlikely: No habitat present.

Species	Common name	Level of significance		Habitat	Likelihood of occurrence within the site
		BC Act	EPBC Act		
Aves					
Gallinago stenura	Pin-tailed snipe	MI	MI	Boggy edges of vegetated wetlands; sewage and other ponds; stubbles, grasslands with shrubs, pastures (Pizzey & Knight 2012).	Unlikely: No habitat present.
lxobrychus dubius	Australian little bittern	Ρ4	-	Dense vegetation surrounding/within freshwater pools, swamps and lagoons, well screened with trees. Shelters in dense beds of Typha spp., Baumea spp. and tall rushes in freshwater swamps around lakes and along rivers (Johnstone and Storr 1998).	Unlikely: No habitat present.
Leipoa ocellata	Mallefowl	VU	VU	Scrubs and thickets of Eucalyptus spp., Melaleuca lanceolata and Acacia linophylla; also other dense litter-forming shrublands. Attracted to fallen wheat in stubbles and along roads (Johnstone and Storr 1998).	Unlikely: Locally extinct.
Limosa lapponica	Bar-tailed godwit	VU (MI)	MI	Estuarine sand and mudflats and sandy beaches with loads of seaweed; also reef flats and near-coastal saltlakes (including saltwork ponds) (Johnstone and Storr 1998).	Unlikely: No habitat present.
Limosa lapponica baueri	-	VU	VU	Estuarine sand and mudflats and sandy beaches with loads of seaweed; also reef flats and near-coastal saltlakes (including saltwork ponds) (Johnstone and Storr 1998).	Unlikely: No habitat present.
Limosa lapponica menzbieri	-	CR	CR	Mainly coastal habitats such as large intertidal sandflats, banks, mudflats, estuaries, inlets, harbours, coastal lagoons and bays. Has also been recorded in coastal sewage farms and saltworks, saltlakes and brackish wetlands near coasts, sandy ocean beaches, rock platforms, and coral reef-flats (Higgins and Davies 1996).	Unlikely: No habitat present.

Species	Common name	Level o signifi		Habitat	Likelihood of occurrence within the site			
		BC Act	EPBC Act					
Aves								
Limosa limosa	Black-tailed godwit	МІ	MI	Tidal mudflats, estuaries, sewage ponds, shallow river margins, brackish or saline inland lakes, flooded pastures, airfields (Pizzey & Knight 2012).	Unlikely: No habitat present.			
Limosa limosa melanuroides	-	MI	MI	Tidal mudflats, estuaries, sandpits, shallow river margins, sewage ponds and in inland areas on large, shallow fresh or brackish waters (Pizzey & Knight 2012)	Unlikely: No habitat present.			
Macronectes giganteus	Southern giant-petrel	MI	EN (MI)	Breeds on southern subantarctic and antarctic islands. May visit Western Australian waters from February to December (mostly June to September) (Johnstone and Storr 1998).	Unlikely: No habitat present.			
Macronectes halli	Northern giant petrel	MI	VU (MI)	Breeds on subantarctic islands. May visit Western Australian water from February to September (Johnstone and Storr 1998).	Unlikely: No habitat present.			
Motacilla cinerea	Grey wagtail	MI	МІ	Mainly banks and rocks in fast- running fresh water habitats: rivers, creeks, streams and around waterfalls, both in forest and open country; but occurs almost anywhere during migration.	Unlikely: More common in wetter habitats near water courses. If occurring near the site than likely associated with nearby lakes.			
Numenius madagascariensis	Eastern curlew	VU (MI)	CR (MI)	Mainly tidal mudflats; also reef flats, sandy beaches and rarely near-coastal lakes (including saltwork ponds) (Johnstone and Storr 1998).	Unlikely: No habitat present.			
Numenius minutus	Little curlew	MI	MI	Dry grasslands, floodplains, margins of drying swamps; tidal mudflats, airfields, playing fields, crops, commercial saltfields, sewage ponds (Pizzey & Knight 2012).	Unlikely: No habitat present.			

Species	Common name	Level of significance		Habitat	Likelihood of occurrence within the site
		BC Act	EPBC Act		
Aves		•	•		
Numenius phaeopus	Whimbrel	MI	MI	Estuaries, mangroves, tidal flats, coral cays, exposed reefs, flooded paddocks, sewage ponds, bare grasslands, sportsgrounds and lawns (Pizzey & Knight 2012).	Unlikely: No habitat present.
Onychoprion anaethetus	Bridled tern	MI	MI	Tropical and subtropical seas, offshore islands, rarely coasts (Pizzey & Knight 2012).	Unlikely: No habitat present.
Oxyura australis	Blue-billed duck	P4	-	Mainly deeper freshwater swamps and lakes; occasionally saltlakes and estuaries freshened by flood waters (Johnstone and Storr 1998).	Unlikely: No habitat present.
Pachyptila turtur subantartica	Fairy prion	-	VU	Breeds on subantarctic islands and is presumed to frequent subtropical waters during non- breeding period (TSSC 2015).	Unlikely: No habitat present.
Pandion haliaetus	Osprey	MI	MI	Moderately to very common in sheltered seas around north and west-coast islands south to 31°S; uncommon to common on mainland coasts, estuaries and larger rivers north of tropic; rare to uncommon elsewhere (Johnstone and Storr 1998a)	Unlikely: No habitat present.
Phaethon rubricauda	Red-tailed tropicbird	P4 (MI)	МІ	Spend most of their lives at sea and rarely venture near land. This bird is normally found in tropical and subtropical seas around northern Australia. Though rarely seen in colder areas, a few pairs breed on Sugarloaf Rock, south of Cape Naturaliste.	Unlikely: No habitat present.
Phalaropus lobatus	Red-necked phalarope	MI	MI	Shallow pools in commercial saltfiels, tidal mudflats, beaches, saltmarshes, freshwater wetlands (Pizzey & Knight 2012)	Unlikely: No habitat present.
Philomachus pugnax	Ruff	MI	MI	Fresh, brackish and saline wetlands; tidal mudflats, saltfields, sewage ponds (Pizzey & Knight 2012).	Unlikely: No habitat present.

Species	Common name	Level signifi		Habitat	Likelihood of occurrence within the site				
		BC Act	EPBC Act						
Aves									
Plegadis falcinellus	Glossy Ibis	МІ	MI	Shallow and adjacent flats of freshwater lakes and swamps, also river pools, flooded samphire and sewage ponds (Pizzey & Knight 2012)	Unlikely: No habitat present.				
Pluvialis fulva	Pacific golden plover			Estuaries, mudflats, saltmarshes, mangroves; rocky reefs and stranded seaweed on ocean shores; margins of shallow open inland swamps; sewage ponds, short-grass paddocks, sportsgrounds, airfields, ploughed land (Pizzey & Knight 2012).	Unlikely: No habitat present.				
Pluvialis squatarola	Grey Plover	MI	MI	Mudflats, saltmarsh, tidal reefs and estuaries, rarely inland (Pizzey and Knight 2012).	Unlikely: No habitat present.				
Rostratula australis	Australian painted snipe	EN	EN	Mainly shallow terrestrial freshwater (occasionally brackish) wetlands, including temporary and permanent lakes, swamps and claypans (Marchant and Higgins 1990).	Unlikely: No habitat present.				
Stercorarius parasiticus	Arctic skua	MI	МІ	Offshore waters, bays and harbours, seldom ashore. Also follows ships (Pizzey & Knight 2012)	Unlikely: No habitat present.				
Sterna bergii	Crested tern	MI	MI	Mainly blue-water seas (especially within 3 km of land), including southern estuaries in summer and autumn (when free of silt); also tidal creeks in north, but not penetrating far into larger estuaries (Pizzey & Knight 2012)	Unlikely: No habitat present.				
Sterna caspia	Caspian tern	MI	MI	Mainly sheltered areas, estuaries (when not laden with silt) and tidal creeks; occasionally near-coastal saltlakes (including saltwork ponds) and brackish pools in lower courses of rivers; rarely fresh waters (Pizzey & Knight 2012)	Unlikely: No habitat present.				

Species	Common name	Level o signifi		Habitat	Likelihood of occurrence within the site				
		BC Act	EPBC Act						
Aves									
Sterna dougallii	Roseate tern	MI	MI	Offshore waters, islands, coral reefs, sand cays, beaches, tidal inlets (Pizzey & Knight 2012).	Unlikely: No habitat present.				
Sterna hirundo hirundo	-	МІ	MI	Offshore waters, beaches, reefs, bays, estuaries, sandflats, saltfields, sewage ponds, freshwater wetlands (Pizzey & Knight 2012)	Unlikely: No habitat present.				
Sterna nilotica	Gull-billed tern	МІ	MI	Beaches, mudflats; fresh, brackish wetlands, including far inland; grasslands, crops, ploughed fields, airfields (Pizzey & Knight 2012).	Unlikely: No habitat present.				
Sternula nereis nereis	Australian fairy tern	VU	VU	Sheltered blue-water seas close to land, estuaries (when free of silt) and near-coastal lakes (Johnstone and Storr 1998).	Unlikely: No habitat present.				
Thalassarche melanophris impavida	Campbell albatross	VU (MI)	VU (MI)	Scarce visitor to south western and western seas. Breeds on Campbell island (Johnstone and Storr 1998)	Unlikely: No habitat present.				
Thalassarche cauta cauta	Shy albatross	VU (MI)	VU (MI)	Scarce visitor (late May to mid- October) to southwestern and western seas. Breeds on islands off Tasmania and south New Zealand (Johnstone and Storr 1998).	Unlikely: No habitat present.				
Thalassarche cauta steadi	White-capped albatross	VU (MI)	VU (MI)	Scarce visitor (late May to mid- October) to southwestern and western seas. Breeds on islands off Tasmania and south New Zealand (Johnstone and Storr 1998).	Unlikely: No habitat present.				
Thalassarche melanophris	Black-browed albatross	EN (MI)	VU (MI)	Seas of south and west coasts. Visitor to Western Australian mainland from January to early November (mostly May to September). Breeds on southern subantarctic and antarctic islands (Johnstone and Storr 1998).	Unlikely: No habitat present.				

Species	Common name	Level o signifi		Habitat	Likelihood of occurrence within the site
		BC Act	EPBC Act		
Aves					
Thinornis rubricollis	Hooded plover	P4	-	Margins and shallows of saltlakes, sandy and seaweedy beaches and estuaries; also dams (Johnstone & Storr 1998).	Unlikely: No habitat present.
Tringa brevipes	Grey-tailed tattler	Ρ4	-	Tidal mud and reef flats, sheltered rocky coasts, stony and seaweedy beaches and sandpits, dry coral ridges (Abrolhos) and pebbly shores of near-coastal saltlakes (including saltwork ponds) (Johnstone and Storr 1998).	Unlikely: No habitat present.
Tringa cinerea	Terek sandpiper	MI	MI	Tidal mudflats, estuaries, shores and reefs of islands, coastal swamps and commercial saltfields (Pizzey and Knight 2012).	Unlikely: No habitat present.
Tringa glareola	Wood sandpiper	MI	MI	Mainly shallow fresh waters (lagoons, swamps, claypans, river pools, dams, bore overflows and sewage ponds); occasionally brackish swamps, rarely saltlakes and estuaries (Pizzey and Knight 2012).	Unlikely: No habitat present.
Tringa hypoleucos	Common sandpiper	MI MI		Edge of sheltered waters salt or fresh, e.g. estuaries, mangrove creeks, rocky coasts, near- coastal saltlakes (including saltwork ponds), river pools, lagoons, claypans, drying swamps, flood waters, dams and sewage ponds. Preferring situations where low perches are available (Johnstone and Storr 1998).	Unlikely: No habitat present.
Tringa nebularia	Common greenshank	MI	MI	Shallow fresh waters (claypans, lagoons, swamps, river pools, dams and sewage ponds) and salt waters (estuaries, mangrove creeks, lakes, samphire flats, reef flats and saltwork ponds) (Pizzey and Knight 2012).	Unlikely: No habitat present.

Species	Common name	Level o signifi		Habitat	Likelihood of occurrence within the site				
		BC Act	EPBC Act						
Aves									
Tringa stagnatilis	Marsh sandpiper	MI	MI	Mainly shallow fresh or brackish waters: swamps, lakes, river pools, soaks, sewage ponds and bore overflows. Occasionally estuaries and salt ponds, and rarely coasts (Pizzey and Knight 2012).	Unlikely: No habitat present.				
Tyto novaehollandiae novaehollandiae	Australian masked owl		-	Forests, open woodlands, farmlands with large trees. E.g. river red gums, adjacent cleared country, timbered watercourses, paperbark woodlands and caves (Pizzey and Knight 2012).	Unlikely: No habitat present.				
Mammalia									
Dasyurus geoffroii	Chuditch	VU	VU	Wide range of habitats from woodlands, dry sclerophyll forests, riparian vegetation, beaches and deserts. Appears to utilise native vegetation along road sides in the wheatbelt. Now mainly limited to <i>Eucalyptus</i> marginata forests in the south-west of Western Australia (DEC 2012a).	Unlikely: Species locally extinct.				
Falsistrellus mackenziei	Western false pipistrelle	P4	-	High rainfall forests dominated by jarrah, karri, marri, and tuart. Roosts and breeds in hollow old trees, branches and stumps (Van Dyck and Strahan 2008). Also known to utilise Banksia woodland on the Swan Coastal Plain (Hosken and O'Shea 1995).	Unlikely: Minor foraging habitat present but no hollow trees for roosting or breeding. No recent records reported near the site.				
Hydromys chrysogaster	Rakali	P4	-	Areas with permanent water, fresh, brackish or marine. Likely to occur in all major rivers and most of the larger streams as well as bodies of permanent water in the lower south west (Christensen et al. 1985).	Unlikely: No habitat present.				

Species	Common name	Level o signifi		Habitat	Likelihood of occurrence within the site			
		BC Act	EPBC Act					
Mammalia								
Isoodon fusciventer	Quenda	Ρ4	-	Dense scrubby, often swampy, vegetation with dense cover up to one metre high (DEC 2012b).	Possible: Some parts of the site provide adequate ground cover for this species but very limited in extent.			
Myrmecobius fasciatus	Numbat	EN	EN	Generally dominated by Eucalyptus spp. that provide hollow logs and branches for shelter and termites for food (Van Dyck and Strahan 2008).	Unlikely: Species locally extinct.			
Notamacropus eugenii derbianus	Tammar wallaby	Ρ4	-	Dry sclerophyll forest, Banksia spp. woodlands and shrublands, typically favouring dense low vegetation that provides dense cover (Christensen and Strahan 1983).	Unlikely: Minor habitat present but very limited in extent and likely too small to support this species.			
Notamacropus irma	Western brush wallaby	P4	-	Dry sclerophyll forest, Banksia spp. woodlands and shrublands, typically favouring dense low vegetation that provides dense cover (Christensen and Strahan 1984).	Unlikely: Minor habitat present but very limited in extent and likely too small to support this species.			
Pseudocheirus occidentalis	Western ringtail possum	CR	VU	On the Swan Coastal Plain in Agonis flexuosa woodlands and Agonis flexuosa/ Eucalyptus gomphocephala forests. Also Eucalyptus marginata forests (DBCA 2017).	Unlikely: Species locally extinct and no suitable habitat present.			
Setonix brachyurus	Quokka	VU	VU	On the mainland mostly dense streamside vegetation or shrubland and heath areas, particularly around swamps (Cronin 2007).	Unlikely: Species locally extinct.			

Species	Common name	Level of significance		Habitat	Likelihood of occurrence within the site
		BC Act	EPBC Act		
Reptilia					
Lerista lineata	Perth slider	Р3	-	Sandy coastal heath and low scrubland. Banksia spp. woodland, Eucalyptus gomphocephala open woodland over deep sands, and coastal dunes immediately adjacent to the beach (Wilson and Swan 2008).	Possible: May utilise the remnant banksia woodland vegetation and sandy soils within the site.
Neelaps calonotos	Black-striped snake	Р3	-	Coastal and near-coastal dunes, sandplains supporting heathlands and Banksia spp. woodlands (Bush <i>et al.</i> 2002).	Possible: May utilise the remnant banksia woodland vegetation.
Invertebrates					
ldiosoma sigillatum	Swan Coastal Plain shield-backed trapdoor spider	Р3	-	Unknown.	Not assessed
Leioproctus contrarius	a short-tongued bee	Р3	-	Life history and habits are poorly documented/ unknown. It has been recorded only on flowers of Goodeniaceae and possibly Lechenaultia stenosepala (Bamford 2003).	Not assessed
Synemon gratiosa	Graceful sunmoth	Ρ4	-	Coastal heathland on Quindalup dunes where it is restricted to secondary sand dunes due to the abundance of the preferred host plant Lomandra maritima. Banksia woodland on Spearwood and Bassendean dunes, where the second known host plant L. hermaphrodita is widespread (DEC 2011).	Possible: Host plant present.
Throscodectes xiphos	Stylet bush cricket	P1	-	Unknown.	Not assessed
Westralunio carteri	Carter's freshwater mussel	VU	VU	Occurs in greatest abundance in slower flowing streams with stable sediments that are soft enough for burrowing amongst woody debris and exposed tree roots. Salinity tolerance quite low (Morgan <i>et al.</i> 2011).	Unlikely: No habitat present.

Table D1 references

Bamford, M. J. 2003, Champion Lakes Master Plan; Fauna, Bamford Consulting Ecologists.

Bush, B., Maryan, B., Browne-Cooper, R. and Robinson, D. 2002, *Reptiles and Frogs of the Perth Region*, UWA Press, Perth, Western Australia.

Christensen, P. and Strahan, R. 1984, *The Australian Museum Complete Book of Australian Mammals*, Angus and Robertson Publishers, Sydney.

Cronin, L. 2007, *Cronin's Key Guide to Australian Wildlife*, Oxford University Press, Oxford, United Kingdom.

Department of Biodiversity, Conservation and Attractions (DBCA) 2017, Fauna Profile: Western Ringtail Possum Pseudocheirus occidentalis, Perth, Western Australia.

Department of Environment and Conservation (DEC) 2011, *Conservation Advice for Synemon gratiosa (graceful sun-moth)*, Perth, Western Australia.

Department of Environment and Conservation (DEC) 2012a, Fauna Profile: Chuditch Dasyurus geoffroii, Perth, Western Australia.

Department of Environment and Conservation (DEC) 2012b, *Fauna profiles, Quenda Isoodon obesulus (Shaw, 1797)*, Perth.

Higgins, P. J. and Davies, S. J. J. F. 1996, *Handbook of Australian, New Zealand and Antarctic Birds. Volume Three - Snipe to Pigeons*, Oxford University Press, Melbourne, Victoria.

Hosken, D. J. and O'Shea, J. E. 1995, *Falsistrellus mackenziei at Jandakot*, The Western Australian Naturalist, 19.

Johnstone, R. E. and Storr, G. M. 1998, *Handbook of Western Australian Birds. Volume 1 - Non-Passerines (Emu to Dollarbird)*, Western Australian Museum, Perth.

Marchant, S. and Higgins, P. J. 1990, *Handbook of Australian, New Zealand and Antarctic Birds. Volume One - Ratites to Ducks*, Oxford University Press, Melbourne, Victoria.

Morgan, D. L., Beatty, S. J., Klunzinger, M. W., Allen, M. G. and Burnham, Q. E. 2011, *Field Guide to the Freshwater Fishes, Crayfishes and Mussels of South Western Australia*, SERCUL, Perth, Western Australia.

Pizzey, G. and Knight, F. 2012, *The Fieldguide to the Birds of Australia*, Harper Collins Publishers, Sydney, Australia.

Threatened Species Scientific Committee (TSSC) 2015, *Conservation Advice for Pachyptila tutur subantarctica (fairy prion, southern)*, Department of the Environment, Canberra.

Van Dyck, S. and Strahan, R. 2008, *The Mammals of Australia*, Queensland Museum, Brisbane.

Wilson, S. and Swan, G. 2008, A Complete Guide to Reptiles of Australia, Reed New Holland, Sydney.





Flora Species List - Lot 1001 Murdoch Drive Murdoch

Class	Status	Species	Common name	Record type	Record location
Aves					
		Acanthiza inornata	Western thornbill	Sight	Enire site
		Anthochaera carunculata	Red wattle bird	Sight	Enire site
		Cacatua sanguinea	Little corella	Sight	Flying over the site
					Open woodland Corymbia
					calophylla and Eucalyptus
	Т	Calyptorhynchus banksii naso	Forest red-tailed black cockatoo	Foraging evidence	marginata
					Open woodland Corymbia
					calophylla and Eucalyptus
	Т	Calyptorhynchus latirostris	Carnaby's black cockatoo	Foraging evidence	marginata
		Corvus coronoides	Australian raven	Sight	Enire site
		Ocyphaps lophotes	Crested pigeon	Sight	Banksia woodland
		Petrochelidon nigricans	Tree martin	Sight	Enire site
		Phylidonyris novaehollandiae	New Holland honeyeater	Sight	Enire site
		Phylidonyris niger	White-cheeked honeyeater	Sight	Enire site
		Rhipidura leucophrys	Willie wagtail	Sight	Enire site
	DP	Trichoglossus moluccanus	Rainbow lorikeet	Sight	Enire site
Mammalia					
	DP	Oryctolagus cuniculus	Rabbit	Scat	Entire site





Potential Habitat Tree Inventory - Lot 105 Murdoch Drive, Murdoch

Tag No.	Easting	Northing	DBH (cm)	Species	Photo No.	Height (m)	Hollows present?	Notes
468	390807.304	6450193.56	74	Eucalyptus marginata	74	14	No	
469	390789.895	6450210.08	56	Corymbia calophylla	78	15	No	
470	390790.149	6450212.98	54	Corymbia calophylla	79	15	No	
471	390787.518	6450219.25	85	Corymbia calophylla	80	15	No	
472	390793.123	6450224.85	84	Corymbia calophylla	81	15	No	
473	390788.096	6450236.23	73	Corymbia calophylla	82	17	No	Bees present on main trunk approx 2 m above ground.
476	390810.916	6450327.5	57	Eucalyptus gomphocephala	104	10	No	
477	390845.589	6450314.01	61	Eucalyptus marginata	115	10	No	Foraging evidence present.
494	390795.862	6450270.46	59	Eucalyptus camaldulensis	97	15	No	
495	390799.697	6450193.24	100	Eucalyptus marginata	73	15	No	