

Moora Grain Receival Site, Moora

Biological Assessment

Prepared for

Co-operative Bulk Handling Pty

December 2019

people
 planet
 professional

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Executive Summary

Co-operative Bulk Handling Pty commissioned 360 Environmental Pty Ltd to undertake a biological (flora, vegetation and fauna) survey and black cockatoo assessment to support State and Federal approvals for proposed clearing of native vegetation to allow for the widening of the existing road and installation of a weighbridge. The assessment was completed within the defined area of Lot 4300 adjacent to their existing Moora Grain Receival Site, totalling 7.73 hectares, referred to as the Survey Area.

Flora and Vegetation

The desktop assessment identified 80 flora species of conservation significance as potentially occurring within 20 kilometres of the Survey Area. A likelihood of occurrence assessment was undertaken and determined eight species as having a high likelihood of occurrence, 22 species as having a medium likelihood of occurrence, 50 species as having a low likelihood of occurrence. No conservation significant species have previously been recorded within the Survey Area.

The detailed flora and vegetation survey recorded the floristic composition and vegetation types from three quadrats and additional mapping notes. The survey recorded a total of 53 taxa from 36 genera across 16 families.

No Threatened flora species pursuant to the Environment Protection and Biodiversity Conservation Act 1999 and/or gazetted as Threatened/Declared Rare Flora pursuant to the Biodiversity Conservation Act 2016 Act 2016 were recorded during the survey.

One vegetation type was mapped across the Survey Area with the remaining areas being unvegetated or cleared tracks. Vegetation type **ElHp** is described as a York Gum Woodland and comprised 7.35 ha of the Survey Area. The vegetation type **ElHp** is considered to be representative of the *Eucalypt Woodlands of the Western Australian Wheatbelt* Threatened Ecological Community under the Environment Protection and Biodiversity Conservation Act 1999.

Vegetation condition within the Survey Area ranged from Very Good to Completely Degraded. Disturbances included litter, weeds, firewood collection and uncontrolled fill. In summary, condition across the Survey Area consisted of:

Very Good: 4.75 ha, 61%

• Good: 2.39 ha, 31%

Degraded: 0.21 ha, 3%

Completely Degraded (cleared areas): 0.38 ha, 5%.

Vertebrate Fauna

A total of 489 vertebrate fauna species were retrieved from the database searches. Of these, 37 are conservation significant vertebrate fauna species (including Priority species). Five species

listed solely as Marine have been excluded as there is no marine habitat present within the Survey Area.

A total of 29 terrestrial vertebrate fauna species from 22 families were recorded during the field survey and comprised of:

- 22 bird species from 17 families
- Four mammal species from four families
- Three reptiles from one family.

One fauna species of conservation significance, the Carnaby's Black Cockatoo was recorded within the Survey Area.

A total of eight fauna habitat assessments were undertaken during the field survey, with two fauna habitat types being identified as York Gum Woodland and Cleared/Completely Degraded.

The results from the post field survey identified the likelihood of occurrence assessment as:

- One fauna species of conservation significance recorded within the Survey Area
- One fauna species of conservation significance is considered to have a high likelihood of occurrence within the Survey Area
- One conservation significant fauna species is considered to have a medium likelihood of occurrence within the Survey Area
- The remaining 29 conservation significant species are considered to have a low likelihood of occurrence.

The York Gum Woodland fauna habitat offers foraging and nesting opportunities for birds, small reptiles and small mammal species. The hollow forming *Eucalyptus* trees (Wandoo and York Gum) provide important refuge and breeding opportunities to many species, particularly potential breeding opportunities for Black Cockatoo species.

Black Cockatoo Habitat Assessment

The following conclusions can be drawn from the Black Cockatoo Habitat Assessment:

- The Survey Area occurs outside the Forest Red-tailed Black Cockatoos and the Baudin's Black Cockatoo breeding range therefore these species are considered unlikely to occur within the Survey Area
- Two Carnaby's Black Cockatoos were recorded within the Survey Area. The individuals landed within a York Gum, rested briefly before leaving the Survey Area. No foraging was observed
- Direct evidence of Black Cockatoo breeding was not observed. 21 trees were identified
 as potential breeding trees for Black Cockatoos, of which one contained hollows that
 may be suitable for Black Cockatoo breeding
- 7.35 ha of Black Cockatoo low quality foraging habitat was recorded in the Survey Area, suitable for foraging by Carnaby's Black Cockatoo.



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1 Introduction

1.1 The Project

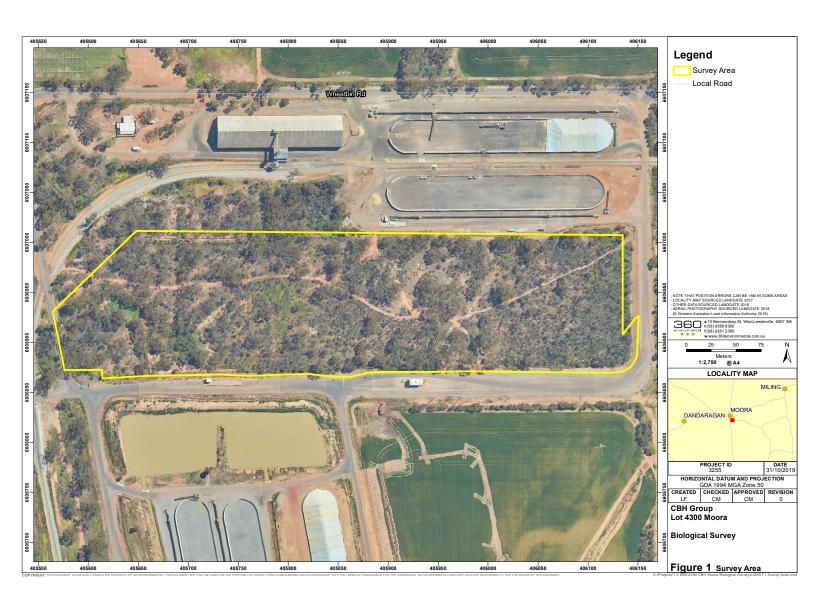
Co-operative Bulk Handling Pty (CBH) commissioned 360 Environmental Pty Ltd (360 Environmental) to undertake a biological (flora, vegetation, fauna and Black Cockatoo) survey to support State and Federal approvals for clearing of native vegetation to allow for the widening of an existing road and installation of a weighbridge. The assessment was completed within the defined area of Lot 4300 adjacent to their existing Moora Grain Receival Site, Moora (referred to as the Survey Area), totalling 7.73 hectares (ha) (Figure 1).

1.2 Objectives and Scope

The biological assessment included a Detailed Flora and Vegetation Survey, Level 1 Vertebrate Fauna Survey and Black Cockatoo Habitat Assessment within the Survey Area to identify potential environmental sensitivities that may impact the Project.

The scope of works includes:

- Desktop Assessment
- Field Survey
- Post Survey Debrief Email
- Biological Report
- GIS Spatial Data.



2 Background

2.1 Protection of Flora, Vegetation and Fauna

Western Australian flora and fauna is protected formally and informally by legislative and non-legislative measures, which are as follows:

Legislative measures:

- Commonwealth Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) (Department of the Environment and Energy, 2015)
- WA Biodiversity Conservation Act 2016 (BC Act)
- WA Environmental Protection Act 1986 (EP Act)
- WA Biosecurity and Agriculture Management Act 2007 (BAM Act).

Non-legislative measures:

- WA Department of Biodiversity Conservation and Attractions (DBCA) Priority lists for fauna, flora and ecological communities
- Weeds of National Significance (WoNS) and
- Recognition of locally significant populations by DBCA.

2.2 Biophysical Environment

2.2.1 Climate

The closest long-term Bureau of Meteorology (BoM) weather station with a complete dataset is Walebing (Station 8151), located approximately 11 kilometres (km) east of the Survey Area.

The long-term mean minimum temperature for Moora ranges from 5.4°C (July) to 16.9°C (February) (1884 to 2019) and the long-term mean maximum temperature ranges from 16.1°C (July) to 33.9°C (January) (1884 to 2019) (Figure 2) (Bureau of Meteorology, 2019). The long-term annual average rainfall is 468.2 millimetres (mm) (1884 to 2019) (Bureau of Meteorology, 2019).

The Walebing weather station recorded 276.2 mm of rainfall in the 12 months prior to the survey (September 2018 to August 2019), which is 192.0 mm below the long-term average of 468.2 mm for the same time period (Bureau of Meteorology, 2019). In the three months prior to the survey (June 2019 to August 2019), 205.8 mm of rainfall was recorded, which is 39.1 mm below the long-term average of 244.9 mm for the same time period (1894 to 2019) (Bureau of Meteorology, 2019).



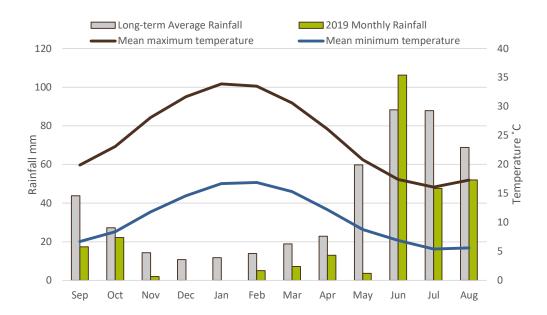


Figure 2: Long-term Average and Monthly Total Rainfall, Maximum and Minimum Temperatures for Walebing (8151) (Bureau of Meteorology, 2019)

2.2.2 Interim Biogeographic Regionalisation of Australia

The Interim Biogeographic Regionalisation of Australia (IBRA) divides Australia into 89 bioregions based on major biological, geographical and geological attributes. These bioregions are subdivided into 419 subregions as part of a refinement of the IBRA framework (Department of the Environment and Energy, 2016). The Survey Area occurs within the Avon Wheatbelt bioregion and the Katanning (AVW02) subregion.

The Katanning subregion is characterised as an area of active drainage dissecting a tertiary plateau in the Yilgarn Craton (Beecham, 2001). The subregion has a gently undulating landscape of low relief (Beecham, 2001). Proteaceous scrub-heaths, rich in endemics, on residual lateritic uplands and derived sandplains. Vegetation includes mixed eucalypts, *Allocasuarina huegeliana* and Jam-York Gum woodlands on Quaternary alluvials and eluvials (Beecham, 2001). The Katanning subregion is an ancient peneplain with low relief, gently undulating landscape. With no connected drainage, salt-lake chains occur as remnants of ancient drainage systems that now only function in very wet years (Beecham, 2001).

2.2.3 Soil Landscape and Land Systems

Soil landscapes and land system mapping of Western Australia describes broad soil and landscape characteristics from regional to local scales, and has been captured at scales ranging from 1:20,000 to 1:250,000 (Department of Agriculture and Food WA, 2012). The Survey Area occurs within the Ranfurly System and the Ranfurly 1 Subsystem described as an alluvial plain of Moore river comprising loamy earths, clays and minor sandy earths, displayed in Figure 3 (Department of Agriculture and Food WA, 2012).

The surface geology of the Survey Area is mapped entirely as Alluvium 38485 (Geoscience Australia, 2008) and is described as a channel and flood plain alluvium comprising of gravel, sand, silt, clay and calcrete.

2.2.4 Hydrology and Wetlands

The Survey Area does not intersect any major watercourses or water bodies (Department of Water and Environmental Regulation, 2016). The closest watercourse to the Survey Area is the Yadgena Brook, a minor river located approximately 350 m north of the Survey Area (Figure 4). The Yadgena Brook meets the Moore River, approximately 3 km to the west of the Survey Area.

No geomorphic wetlands are identified within the Survey Area or within 5 km of the Survey Area (Department of Biodiversity Conservation and Attractions, 2017).

2.3 Biological Environment

2.3.1 Broad Vegetation Types

Mapping of pre-European broad vegetation within Western Australia was completed on a broad scale (1:1,000,000) by (Beard, 1976). These vegetation types were later re-assessed by Shepherd et. al (2002) with some larger vegetation units divided into smaller units. Together, this pre-European database contains a total of 819 vegetation types within Western Australia.

The Survey Area is mapped in entirety of one broad vegetation type. Victoria Plains 142 is described in the wheatbelt as York gum (*Eucalyptus loxophleba*) and salmon gum (*E. salmonophloia*). Its representation at a state, regional and local level is shown in Table 1.

Table 1: Broad Vegetation Types within the State, Regional and Local Representation (Department of Biodiversity Conservation and Attractions, 2019a)

Vegetation Type	Pre-European Extent (ha)	Current Extent (ha)	Remaining (%)	Current Extent Managed in DBCA Lands (%)		
Representation across	s Western Australia					
Victoria Plains 142	787,948.47	208,347.17	26.44	1.04		
Representation across	s the Avon Wheatbel	t Bioregion				
Victoria Plains 142	637,707.53	79,309.95	12.44	0.37		
Representation across	Representation across the Katanning Subregion					
Victoria Plains 142	224,265.61	16,054.81	7.16	0.16		
Representation across	Representation across the Shire of Moora					
Victoria Plains 142	164,556.36	12,666.00	7.70	0.11		

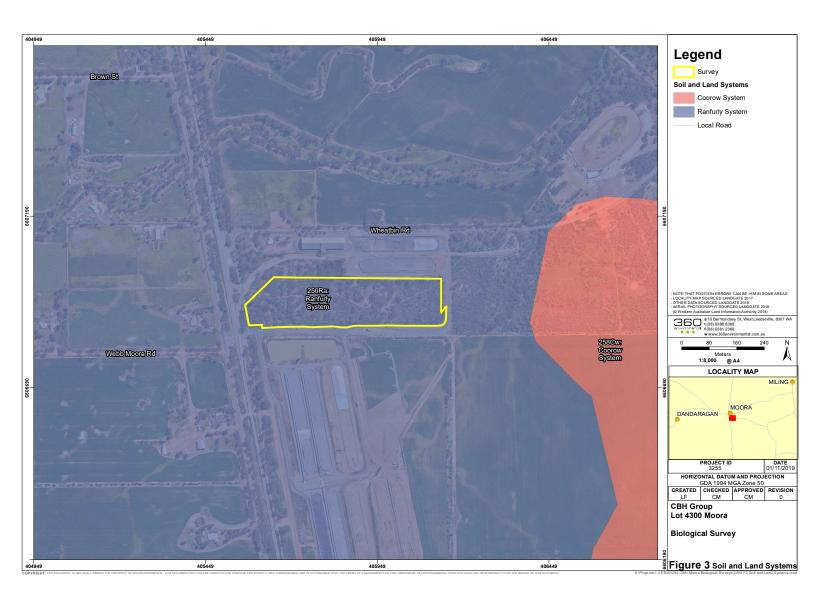
2.3.2 Environmentally Sensitive Areas

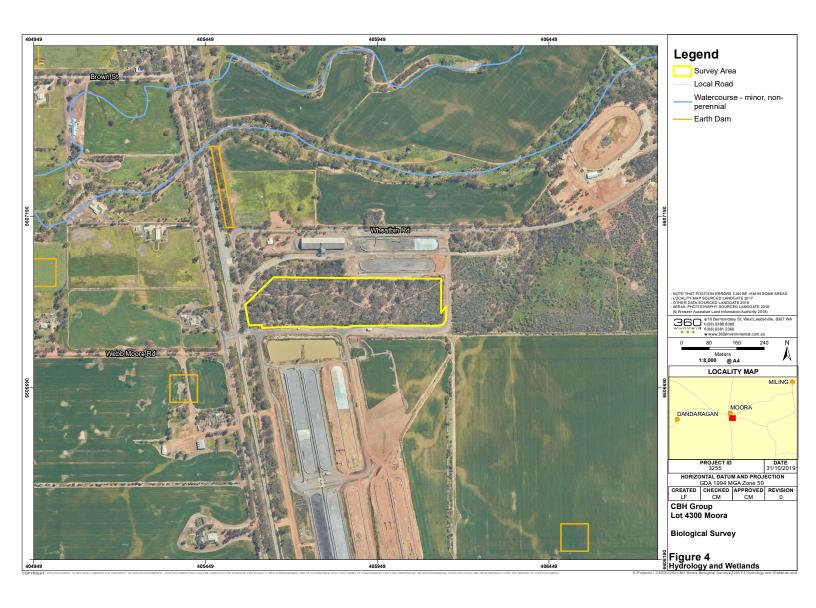
Environmentally Sensitive Areas (ESAs) are declared to prevent degradation of important environmental values such as Threatened flora, Threatened Ecological Communities (TECs) or significant wetlands. Exemptions contained in the *Environmental Protection (Clearing of Native vegetation) Regulations 2004* for low impact land clearing do not apply in ESAs and a clearing permit is required.

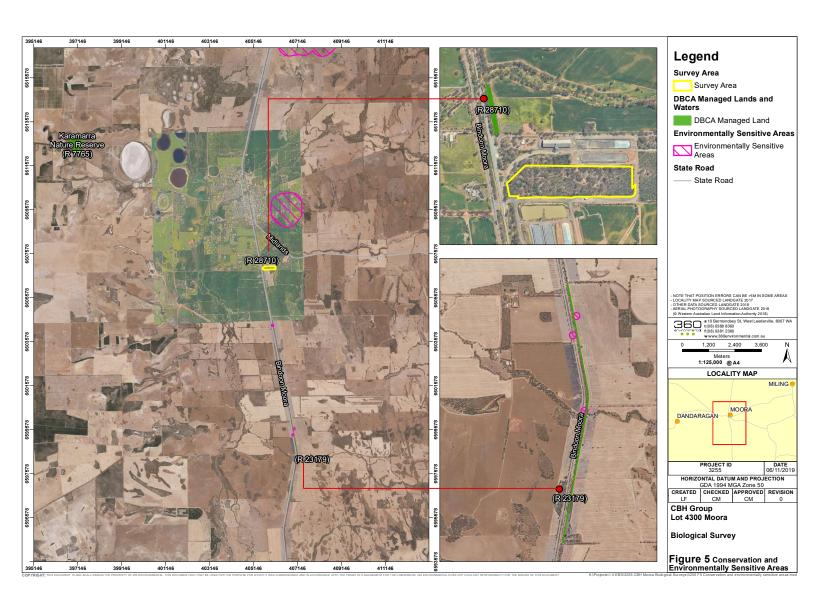
The Survey Area is not mapped within an ESA (Figure 5). There are two ESAs identified within a 5 km radius of the Survey Area. The closest ESA is identified approximately 1.9 km to the north of the Survey Area and the other located approximately 3 km to the south of the Survey Area.

2.3.3 Conservation Areas

The Survey Area is not mapped within any conservation areas (Figure 5). The closest Conservation Area is an unnamed Nature Reserve located approximately 250 m to the northwest of the Survey Area. This Nature Reserve is located on the road verge of Bindoon Moora Road for the purpose of flora conservation vested by the Conservation Commission of WA.







3 Methods

3.1 Requirements for Flora and Fauna Surveys

This survey has been carried out as per the EPA requirements for environmental surveying and reporting of flora and fauna surveys in Western Australia where relevant, and as documented in:

Western Australia

- Technical Guidance Flora and Vegetation Surveys for Environmental Impact Assessment (Environmental Protection Authority, 2016a)
- Technical Guidance Sampling Methods for Terrestrial Vertebrate Fauna (Environmental Protection Authority, 2016b)
- Technical Guidance Terrestrial Fauna Surveys (Environmental Protection Authority, 2016c).

Federal

- Matters of National Environmental Significance Significant impact guidelines 1.1
 Environment Protection and Biodiversity Conservation Act 1999 (Department of the Environment, 2013)
- EPBC Act referral guidelines for three threatened black cockatoo species (Department of Sustainability Environment Water Population and Communities, 2012)
- Survey Guidelines for Australia's threatened mammals (Department of Sustainability Environment Water Population and Communities, 2011)
- Survey guidelines for Australia's threatened birds Guidelines for detecting birds listed as threatened under the Environment Protection and Biodiversity Conservation Act 1999 (Department of the Environment Water Heritage and the Arts, 2010).

3.2 Desktop Assessment

3.2.1 Database Searches

Database searches were undertaken to identify potential conservation significant flora and fauna taxa and Ecological Communities within or surrounding the Survey Area (Study Area). Database search details are outlined in Table 2. The search buffer ranges from 15 km to 50 km as recommended by DBCA.

Priority Ecological Communities (PEC) and Threatened Ecological Communities (TEC) within the Avon Wheatbelt bioregion were examined to determine if any corresponded with the Survey Area (Appendix A). In addition, an EPBC Protected Matters Search (PMST) was undertaken to identify the potential for Matters of National Environmental Significance (MNES) to occur within or surrounding the Survey Area (Department of the Environment and Energy, 2019).



Table 2: Database Searches of the Study Area

Database Name	Date Received	Search Target	Search Area
Threatened and Priority Ecological Communities database (Department of Biodiversity Conservation and Attractions, 2019d)	25 September 2019	Listed TECs and PECs	15 km radius (DBCA recommended buffer)
Threatened and Priority Flora Database (TPFL) (Department of Biodiversity Conservation and Attractions, 2019f)	18 September 2019	Threatened and	20 km radius (DBCA recommended buffer)
Western Australian Herbarium flora (Department of Biodiversity Conservation and Attractions, 2019g)	18 September 2019	Priority Flora	20 km radius (DBCA recommended buffer)
DBCA Threatened and Priority Fauna List (Department of Biodiversity Conservation and Attractions, 2019e)	16 September 2019	Threatened and Priority Fauna	50 km radius (DBCA recommended buffer)
NatureMap (Department of Biodiversity Conservation and Attractions, 2019c)	22 October 2019	Threatened and Priority Flora	20 km radius
NatureMap (Department of Biodiversity Conservation and Attractions, 2019c)	22 October 2019	Threatened and Priority Fauna	40 km radius (maximum buffer)
Protected Matters Search Tool (PMST) (Department of the Environment and Energy, 2019)	22 October 2019	Threatened and Priority Flora and Fauna	20 km radius

3.2.2 Likelihood of Occurrence

Conservation significant flora and fauna species identified from the desktop assessment were further examined to determine a likelihood of occurrence both prior and post field survey. The assessment was completed based on the likelihood of occurrence criteria presented in Table 3. Only species either recorded within the Survey Area or considered as having a high or medium likelihood of occurrence will be discussed in detail. Species classified as having a low likelihood of occurrence based on the below criteria will not be discussed unless a justification for this classification is required.

Table 3: Likelihood of Occurrence Criteria

Likelihood	Flora	Fauna
Recorded	Flora and fauna species recorded withi	n the Survey Area during the field survey
High	Previously recorded within the Survey Area or within 10 km and suitable habitat potentially occurs in the Survey Area	Preferred habitat is present in the Survey Area and known species distribution has been recorded on more than one occasion within 50 km of the Survey Area in the last 15 years

Likelihood	Flora	Fauna
Medium	Previously recorded within 10 to 20 km of the Survey Area and/or suitable habitat potentially occurs in the Survey Area	The species has been recorded on more than one occasion within 50 km of the Survey Area in the last 15 years, but limited appropriate habitat occurs in the Survey Area; or the High likelihood of occurrence criteria has not been met, however the species is known from the general area and has good dispersal abilities; or preferred habitat for the species occurs in the Survey Area but the species has not been recorded within 50 km in the last 15 years
Low	No suitable habitat appears to be present in the Survey Area and records are greater than 20 km	No suitable habitat is present within the Survey Area or outside the species known distribution; or the species is known from the general area but has poor dispersal abilities

3.2.3 Literature Review

A literature review was undertaken to identify any previously completed surveys within the general region. This includes reviewing all publicly available reports to assist with understanding any key biological findings nearby.

3.3 Flora and Vegetation

3.3.1 Field Survey

A detailed single season flora and vegetation survey was undertaken by Ecologist Colleen McDonald (Flora Licence FB 2000148/TFL69-1920) on the 3rd of September 2019. The field survey included an assessment of three quadrats, mapping notes, vegetation condition notes, opportunistic flora collections, observations and a targeted Priority flora search. The Survey effort and quadrat locations are shown in Figure 6.

A minimum of three quadrats of 10 x 10 m, with a 20 x 20 m overstorey were installed in representative vegetation types. Each quadrat was accurately measured using measuring tapes, and the northwest corner was demarcated with a steel fence dropper. At the NW corner of each quadrat, the location was recorded using a handheld Garmin GPS unit, and Fulcrum mobile data collection device with a photograph.

At each quadrat, the following data was recorded:

- Site code a unique identifier allocated to each quadrat
- Date and recorder a record of the date of quadrat sample and a list of the personnel involved in sampling the quadrat
- Location GPS coordinates (MGA94) measured from the north west corner of the quadrat
- Dimensions the size and shape of the quadrat
- Landform and soil description a description of the quadrat habitat

- Additional site descriptors location information that might be useful in vegetation classification including, slope, aspect, litter cover, bare ground cover and fire history
- Species list a comprehensive vascular flora species list
- Foliar cover the estimated total percentage foliar cover for each species recorded
- Height the average height (in metres) of each species recorded
- Vegetation description a description of the vegetation according to the National Vegetation Information System (NVIS), Level 5. According to this level, vegetation is classified to 'association', where the dominant growth form, height, cover and species (three species) for the three traditional strata (upper, mid and ground) are described
- Vegetation condition assessed according to the vegetation condition scale (Environmental Protection Authority, 2016a) and
- Photographs a photograph from the north west corner looking toward the south east corner was taken.

3.3.2 Flora of Conservation Significance

The Survey Area was traversed on foot and opportunistic collections were made to identify flora of conservation significance which were listed in the Desktop Assessment.

Specimens were collected for identification and lodgement at the Western Australian Herbarium (WAH).

3.3.3 Taxonomy and Nomenclature

Where field identification of plant taxa was not possible, specimens were collected systematically for later identification using resources of the WAH. Taxonomy was completed by experienced Taxonomist Frank Obbens at the WAH.

The finalised species list was checked against FloraBase (Department of Biodiversity Conservation and Attractions, 2019b) to determine the species' conservation status and known distribution. Introduced species were compared against the BAM Act Declared Plants list the WONS list to determine their status (Thorp and Lynch, 2000; Department of Environment and Energy, 2018).

3.4 Vertebrate Fauna

3.4.1 Field Survey

A level 1 vertebrate fauna survey was undertaken on the 3rd of September by qualified Senior Zoologist Andrew Hide. The purpose of the field survey was to verify the accuracy of the desktop assessment and to further delineate and characterize the fauna assemblages and fauna habitat in the Survey Area. The field survey consisted primarily of fauna habitat assessments, systematic bird searches and opportunistic fauna observations. The survey effort is shown in Figure 6.



3.4.2 Fauna Habitat Assessment

Vegetation types and distinctive landforms were used to identify the broad faunal habitats in the Survey Area. These fauna habitats were then assessed for their potential to support species of conservation significance and the quality of habitat they provide to a wider suite of fauna.

A total of eight individual fauna habitat assessments were undertaken throughout the Survey Area. Each fauna habitat assessment recorded the following information which was used in conjunction with aerial imagery to identify and map fauna habitat types:

- Location within the Survey Area (GPS co-ordinate)
- Condition was assessed at the assessment site using the (Environmental Protection Authority, 2016b) vegetation condition scale
- Dominant vegetation and structure (e.g. number of vegetation strata)
- Hollow-bearing trees and dead stags (e.g. average size and abundance of hollows)
- Description of any rock and rocky outcrops
- Logs (e.g. abundance and size)
- Substrate (e.g. leaf litter)
- Wetlands, creeks, rivers, dams and other water bodies
- Description of any observed nests and roosts (if present)
- Subterranean roosts (e.g. caves, disused mineshafts and/or adits)
- Associated fauna species observed using the habitat
- Disturbance (e.g. cattle grazing, fire)
- Photo showing a typical example of the broad fauna habitat type.

3.4.3 **Taxonomy**

Where there was doubt on species names identified in the desktop and field assessment (through subsequent name changes or taxonomic reviews), an effort was made to determine the current scientific name for each taxon. Taxonomy and nomenclature in this report follows the WA Museum checklist 2019 (Western Australian Museum, 2019) where relevant.

3.5 **Black Cockatoo Habitat Assessment**

3.5.1 Field Survey

A Black Cockatoo habitat assessment was undertaken alongside the vertebrate fauna survey by Senior Zoologist Andrew Hide and involved traversing the Survey Area by foot. The survey was conducted in accordance with the Department of Environment and Energy's (2012) EPBC Act referral guidelines for three threated black cockatoo species: Carnaby's Cockatoo (Calyptorhynchus latirostris), Baudin's Cockatoo (Calyptorhynchus baudinii) and Forest Redtailed Black Cockatoo (Calyptorhynchus banksii naso) (Department of Sustainability Environment Water Population and Communities, 2012).

3.5.2 Breeding Habitat

Any trees meeting each of the following criteria for potential breeding were recorded with a mobile GPS Fulcrum application:

- Native trees (e.g. Jarrah, Tuart, Marri, Wandoo and Salmon Gum)
- Diameter at Breast Height (DBH @ 1.3 m) ≥ 500 mm (≥ 300 mm for Wandoo and Salmon Gum) regardless of the presence or absence of hollows
- All hollows observed within trees were recorded and categorised as follows:
 - Hollows: Total number of hollows observed within the tree, or 'no' if none are observed and
 - Hollows > 12 cm diameter = Number hollows within the tree that are observed to contain an opening diameter > 12 cm, which has the potential of being utilised by Black Cockatoo species (Department of Environment Conservation, 2010; Saunders, Mawson and Dawson, 2014). This also included recording any evidence of chewing around the hollow opening.

Trees with multiple stems, swellings or forking/branching at breast height were measured dependent on the form to ensure accurate measurement. When this occurred, the diameter was measured just above or below breast height to gain a more accurate measurement of diameter and only the largest forking branch was recorded if this occurred below breast height.

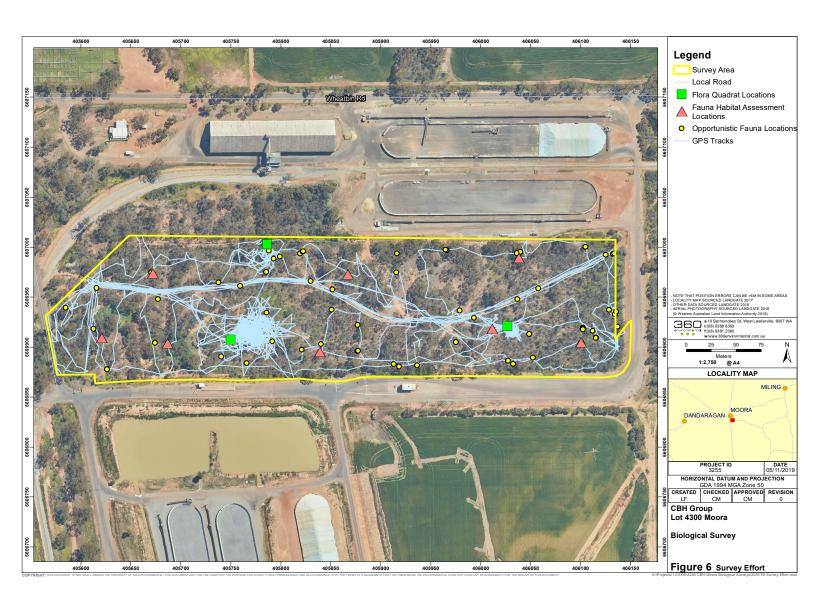
3.5.3 Foraging Habitat

The Black Cockatoo assessment involved assessing the habitat for tree and shrub species known to be important dietary items e.g. Marri and *Banksia* sp. as outlined within the referral and revised draft referral guidelines (Department of Sustainability Environment Water Population and Communities, 2012; Department of the Environment and Energy, 2017). It also included looking for:

- Evidence of feeding (chewed cones, seed and nut material)
- Opportunistic observations of Black Cockatoos foraging or utilising the Survey Area.

3.5.4 Roosting Habitat

While undertaking the assessment any evidence of roosting or areas identified as having high roosting potential were identified, recorded and mapped.



4 Results

4.1 Limitations

Variable	Degree of Limitation	Potential Constraints on Survey Outcomes
Access and Survey Intensity	Not a limitation	The Survey Area was able to be accessed by vehicle and on foot and was sufficiently traversed. The survey effort is displayed in Figure 6.
Availability of Data	Not a limitation	All data required to complete the scope of works including regional and local contextual information was available
Experience	Not a limitation	The flora and vegetation survey was undertaken by Ecologist Colleen McDonald. Colleen has worked as an environmental consultant for two years and has completed flora, vegetation and fauna surveys state-wide. The fauna survey and black cockatoo habitat assessment was
		undertaken by Senior Zoologist Andrew Hide. Andrew has over 12 years' experience conducting fauna surveys of similar scope throughout Western Australia.
		Taxonomy was undertaken by experienced Taxonomist Frank Obbens at the WA herbarium.
Timing, weather, season	Moderate limitation	The survey was undertaken in September, within the recommended primary survey period for the South-West Botanical Province (September - November).
		Despite being able to complete the survey during a recommended primary survey period the region still received below average rainfall for the period leading up to the survey. The nearest weather station recorded 276.2 mm of rainfall 12 months prior to the survey which is 192 mm below the long-term average for the same time period. In the three months prior to the survey 205.8 mm of rainfall was recorded, which is 39.1 mm below the long-term average for the same time period.
		Due to the below average rainfall for the region, this is considered a moderate limitation of the survey.
Life forms sampled	Moderate limitation	The Survey Area was traversed by foot and all remnant vegetation was surveyed. All dominant flora species were recorded within the vegetation units. Of the 53 flora taxa collected, eight (15%), were unable to be identified to species level due to the absence of identifiable features such as fruit and flowers. Therefore, this is considered a moderate limitation of the survey. All observable fauna species were identified and recorded, and adequate fauna habitat assessments were completed for the size
Completeness	Not a limitation	of the Survey Area. The survey was considered complete for a detailed flora and vegetation survey, all vegetation types were surveyed and
		delineated within the Survey Area and a minimum of three quadrats was surveyed for each vegetation type.

Variable	Degree of Limitation	Potential Constraints on Survey Outcomes
		The survey was considered complete for a level 1 vertebrate fauna survey, with fauna habitat assessments being completed throughout the Survey Area, adequate records of opportunistic fauna, and sampling effort for any potential conservation significant fauna species that may occur within the Survey Area.
		The survey was considered complete for a black cockatoo habitat assessment with all potential breeding trees recorded within the Survey Area.

4.2 Literature Review

The following reports were reviewed as part of the Literature Review.

Flora and Vegetation Lot 4300 Moora (Bennett Environmental Consulting Pty Ltd, 2006)

Bennett Environmental Consulting was commissioned by CBH to undertake a flora and vegetation survey of Lot 4300, Moora. The main findings of this report were:

- No Declared Rare or Priority Florida were recorded
- Two quadrats were recorded, and two vegetation types observed
 - o Ah: Low forest of Allocasuarina huegeliana woodland and Acacia acuminata
 - o El: Low woodland of Eucalyptus loxophleba subsp. loxophleba
- Vegetation condition of the survey ranged from good to degraded.

Fauna Assessment Moora Grain Receival Site (Harewood, 2019)

A fauna habitat assessment was undertaken within the proposed development footprint of Lot 4300, Moora in August 2019. The main findings were:

- 38 native fauna species were observed (combined with a previous survey undertaken in 2007)
- Habitats present were Existing Cleared Areas, Low Eucalypt Woodland and Low Sheoak/ Acacia Forest
- Two Potential Black Cockatoo breeding trees were present, none of which had hollows
- Two conservation significant species were considered possible to occur
 - Carnaby Black Cockatoo (Calyptorhynchus latirostris)
 - o Peregrine Falcon (Falco peregrinus).

4.3 Flora and Vegetation

4.3.1 Desktop Assessment

The desktop assessment identified 80 conservation significant species occurring within 20 km of the Survey Area. This included:

- 32 Threatened species
- Six Priority 1 species
- Nine Priority 2 species
- 25 Priority 3 species
- Eight Priority 4 species.

A full description of all conservation significant species identified in the Desktop Assessment is provided in Appendix A and DBCA records are mapped in Figure 7.

One Threatened Ecological Community (TEC) and two Priority Ecological Communities (PEC's) listed by the State were identified as occurring within a 15 km radius of the Survey Area (Department of Biodiversity Conservation and Attractions, 2019d; Department of the Environment and Energy, 2019) (Figure 8). Both PECs are listed as TECs under the EPBC Act.

- Vegetation alliances on ridges and slopes of the chert hills of the Coomberdale Floristic Region (Endangered [BC Act]). This ecological community has 39 records within 15 km of the Survey Area
- Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region (Priority 3
 [BC Act], Endangered [EPBC Act]). This ecological community has 96 records within 15
 km of the Survey Area
- Eucalypt woodlands of the Western Australian Wheatbelt (Priority 3 [BC Act], critically Endangered [EPBC Act]). This ecological community has 1412 records within 15 km of the Survey Area.

4.3.2 Likelihood of Occurrence

The conservation significant species identified in the Desktop Assessment were reviewed for their likelihood of occurrence within the Survey Area based on the criteria outlined in Table 3. Of the 80 species identified in the desktop assessment, no species were recorded within the Survey Area, eight species are considered to have a high likelihood of occurrence, 22 are considered to have a medium likelihood of occurrence and 50 are considered to have a low likelihood of occurrence. The likelihood assessment is displayed in Appendix B.

Conservation significant species identified as having a high likelihood of occurrence in the Survey Area include:

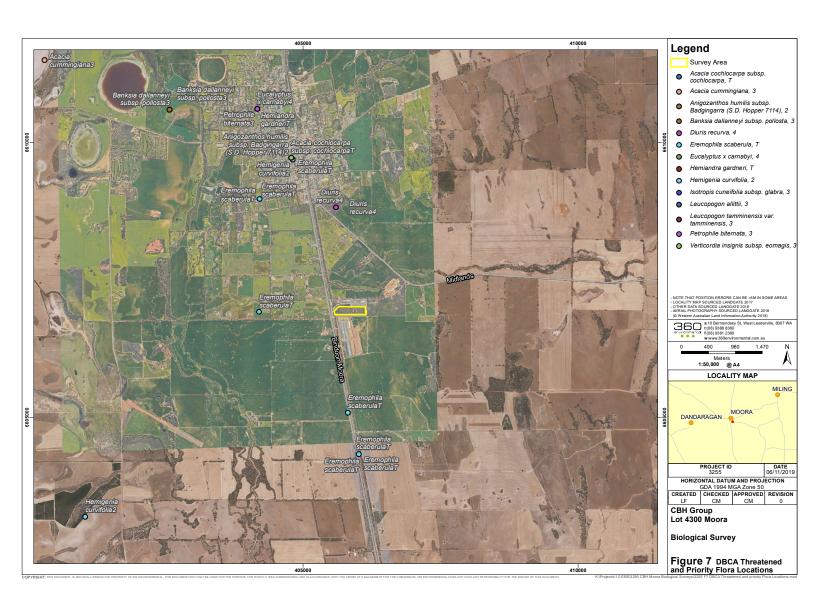
- Acacia cochlocarpa subsp. cochlocarpa (T, EN)
- Hemiandra gardneri (T, EN)
- Calytrix ecalycata subsp. pubescens (P1)
- Stylidium sp. Moora (P2)
- Gastrolobium rotundifolium (P3)
- Leucopogon tamminensis var. tamminensis (P3)

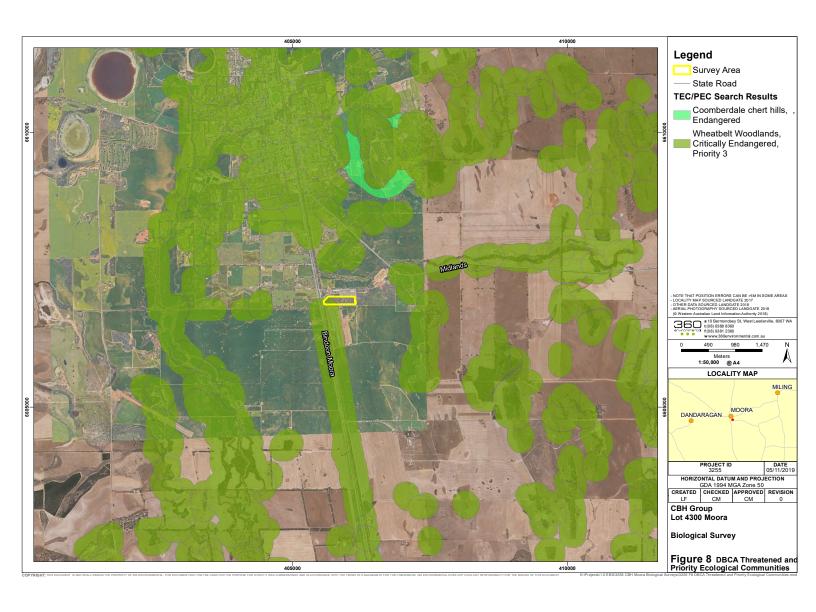
- Melaleuca sclerophylla (P3)
- Eucalyptus x carnabyi (P4).

Conservation significant species identified as having a medium likelihood of occurrence in the Survey Area include:

- Acacia aristulata (T, EN)
- Acacia cochlocarpa subsp. velutinosa (T, CR)
- Banksia serratuloides subsp. serratuloides (T, VU)
- Chorizema humile (T, EN)
- Conospermum densiflorum subsp. unicephalatum (T, EN)
- Darwinia acerosa (T, EN)
- Dasymalla axillaris (T, CR)
- Daviesia dielsii (T, EN)
- Gastrolobium hamulosum (T, VU)
- Grevillea christineae (T, EN)
- Grevillea pythara (T, EN)
- Haloragis platycarpa (T, CR)
- Caladenia dundasiae (P1)
- Bossiaea moylei (P2)
- Synaphea rangiferops (P2)
- Babingtonia cherticola (P3)
- Blackallia nudiflora (P3)
- Guichenotia tuberculata (P3)
- Stylidium periscelianthum (P3)
- Stylidium sacculatum (P3)
- Verticordia huegelii var. tridens (P3)
- Calothamnus accedens (P4).

The remaining 50 species were considered to have a low likelihood of occurrence in the Survey Area due to the absence of suitable habitat.





4.3.3 Flora

The field survey recorded a total of 53 taxa from 36 genera across 16 families. The most dominant families were Asteraceae (ten species), Poaceae (ten species) and Fabaceae (eight species). The most dominant genera were *Acacia* (eight species). A full species inventory is detailed in Appendix C.

A specimen was collected for all species recorded within the Survey Area, eight taxa (15%), were unable to be identified confidently to species level. This was mainly due to the specimens being sterile with no flowering material or fruit present.

4.3.4 Flora of Conservation Significance

No Threatened flora species pursuant to the EPBC Act 1999 and/or gazetted as Threatened/Declared Rare Flora pursuant to the BC Act 2016 were recorded during the survey.

No Priority Flora species as listed by DBCA under the BC Act were recorded within the Survey Area.

4.3.5 Introduced Flora

A total of nine introduced species were recorded within the Survey Area, representing 17% of the total taxa recorded (Table 4). No introduced species were identified as WONS or Declared Pests (Department of Environment and Energy, 2018; Department of Primary Industries and Regional Development, 2018).

Table 4: Introduced Flora Species within the Survey Area

Species	Common Name	Status Under BAM Act	wons
*Arctotheca calendula	Cape Weed	Permitted – s11	No
*Briza maxima	Blowfly Grass	Permitted - s11	No
*Ehrharta longiflora	Annual Veldt Grass	Permitted - s11	No
*Eragrostis curvula	African Lovegrass	Permitted - s11	No
*Gorteria personata	Gorteria	Permitted - s11	No
*Lysimachia arvensis	Pimpernel	Permitted - s11	No
*Monoculus monstrosus	-	Permitted - s11	No
*Romulea rosea	Guildford Grass	Permitted - s11	No
*Ursinia anthemoides	Ursinia	Permitted - s11	No

4.3.6 Vegetation Type

One vegetation type was mapped within the Survey Area. **ElHp** is described as a York Gum woodland and totalled 7.35 ha. The remaining 0.38 ha of the Survey Area did not have vegetation and were cleared tracks. The vegetation type is described in Table 5 and mapped in Figure 9. A full description of all quadrat information is provided in Appendix D.

4.3.7 Vegetation Condition

Vegetation condition within the Survey Area ranged from Very Good to Completely Degraded. The majority of the Survey Area was in Very Good condition (61%). Disturbances included litter, weeds, firewood collection, motorcycles and uncontrolled fill. Condition across the Survey Area consisted of:

• Very Good: 4.75 ha, 61%

• Good: 2.39 ha, 31%

• Degraded: 0.21 ha, 3%

Completely Degraded (cleared areas): 0.38 ha, 5%

The vegetation condition is mapped in Figure 10.



Table 5: Vegetation Types

Broad Floristic Formation		Vegetation Unit	Sites	Photograph
Eucalypt Woodland	ЕІНр	Tall woodland of Eucalyptus loxophleba subsp. loxophleba and Allocasuarina huegeliana over tall shrubland of Hakea preissi, Acacia lineolata subsp. lineolata, Grevillea biternata over open forbland of *Briza maxima, *Monoculus monstrosus and Podolepis lessonii.	MQ01, MQ02, MQ03	

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4.3.8 Threatened and Priority Ecological Communities

For the Survey Area to be considered as part of the *Eucalypt Woodlands of the Western Australian Wheatbelt* the following key elements are required as specified by the Approved Conservation Advice (Department of the Environment, 2015):

- Distribution lies within the following sub regions: AVW1, AVW2, MAL02, JAF01, JAF02
- Structure of ecological community is a woodland with the minimum crown cover of the tree canopy is 10 %
- Key species of tree canopy are species of *Eucalyptus* and specified in Table 2a of the Conservation Advice
- A native understorey is present
- Meet the condition thresholds of:
 - A minimum patch size of 2 ha is required for areas where:
 - A high-quality native understorey remains i.e. no more than 30% total vegetation cover of exotic plant species; OR
 - Exotic plant species account for over 30 to 50 % total vegetation understorey cover AND mature trees are present, with at least 5 such trees per half hectare.
 Mature trees have a diameter at breast height of 30 cm or more, and often contain hollows.
 - o A minimum patch size of 5 ha is required for areas where:
 - Vegetation patches where exotic plant species account for up to or over 50% total vegetation understory cover, where there are no less than 5 mature trees per half hectare; OR
 - Exotic plant species account for over 50 − 70% total vegetation understorey cover AND mature trees are present, with at least 5 such trees per half hectare.

Based on examination of the database searches, and the known characteristics of the *Eucalypt Woodlands of the Western Australian Wheatbelt* as listed in (Department of the Environment, 2015), it has been concluded that the Vegetation Type **EIHp** is representative of the *Eucalypt Woodlands of the Western Australian Wheatbelt* TEC/PEC. This conclusion has been drawn based on the following:

- Survey Area is located with the Katanning (AVW1) subregion
- Woodland structure across the Survey Area was greater than 10%
- The dominant canopy tree species within the Survey Area is Eucalyptus loxophleba subsp. loxophleba
- Native understory species are present across the Survey Area and consistent with those specified in the Conservation Advice such as Allocasuarina huegeliana, Hakea preissii and Podolepis lessonii.
- The patch size of **EIHp** is 7.73 ha of which 4.75 ha is in Very Good Condition and 2.39 ha is in good condition.



4.3.9 Regional Representation

Vegetation mapping units described in the Survey Area were correlated with the Beard (1976) and Shepherd et al. (2002) broad vegetation types by examining similarities in vegetation descriptions. Differences exist with the terminology used in the descriptions as they are based on different methods of categorising and characterising vegetation types, and the different spatial scale of the analysis (i.e. region vs. local scale). Vegetation type EIHp is representative of the Victoria Plains 142 vegetation type which includes 95% of the Survey Area.

Vertebrate Fauna Results 4.4

4.4.1 **Desktop Assessment**

A total of 489 vertebrate fauna species were retrieved from the database searches. Of these, 37 are conservation significant vertebrate fauna species (including Priority species).

The results of the DBCA fauna database search are displayed in Figure 11 and the results of all database searches are presented in Appendix A.

Five species listed as Marine only under the EPBC Act, such as the Black-faced Cuckoo-shrike (Coracina novaehollandiae), Rainbow Bee-eater (Merops ornatus), White-bellied Sea Eagle (Haliaeetus leucogaster) etc, as well as marine dependent species such as the Osprey (Pandion haliaetus). These species have been excluded from the likelihood of occurrence list as the Survey Area doesn't occur within a Commonwealth Marine Area (EPBC Act s248), and the species are commonly recorded.

4.4.2 Field Survey

A total of 29 terrestrial vertebrate fauna species from 22 families were recorded during the field survey, comprised of:

- 22 bird species from 17 families
- Four mammal species from four families
- Three reptiles from one family.

A fauna species list is presented below in Table 6, which provides the total count of species records (providing a rough indication of abundance) and conservation status.

Three introduced fauna species were recorded within the Survey Area. Two Marine listed species were recorded.



Table 6: Fauna Species Recorded During the Field Survey

Family	Scientific Name	Common Name	Conservation Status		
Family	Scientific Name	Common Name	State	Federal	Coun
	'	Aves			
Acanthizidae	Acanthiza chrysorrhoa	Yellow-rumped Thornbill	-	-	8
Acanthizidae	Gerygone fusca	Western Gerygone	-	-	3
Accipitridae	Accipiter cirrocephalus	Collared Sparrowhawk	-	-	1
Accipitridae	Haliastur sphenurus	Whistling Kite	-	-	1#
Alcedinidae	Dacelo novaeguineae*	Laughing Kookaburra*	-	-	1
Anatidae	Tadorna tadornoides	Australian Shelduck	-	-	12#
Cacatuidae	Cacatua roseicapilla	Galah	-	-	5, 50 #
Cacatuidae	Cacatua sanguinea	Little Corella	-	-	10
Cacatuidae	Calyptorhynchus latirostris	Carnaby's Cockatoo	EN	EN	2
Campephagidae	Coracina novaehollandiae	Black-faced Cuckoo- shrike	-	MA	2
Columbidae	Ocyphaps lophotes	Crested Pigeon	-	-	2
Corvidae	Corvus coronoides	Australian Raven	-	-	1
Cracticidae	Cracticus tibicen	Australian Magpie	-	-	1
Hirundinidae	Petrochelidon nigricans	Tree Martin	-	MA	3
Meliphagidae	Gavicalis virescens	Singing Honeyeater	-	-	9
Meliphagidae	Lichmera indistincta	Brown Honeyeater	-	-	16
Pachycephalidae	Pachycephala rufiventris	Rufous Whistler	-	-	3
Pardalotidae	Pardalotus striatus	Striated Pardalote	-	-	2
Petroicidae	Petroica goodenovii	Red-capped Robin	-	-	2
Psittacidae	Platycercus zonarius	Australian Ringneck	-	-	1
Rhipiduridae	Rhipidura albiscapa	Grey Fantail	-	-	1
Turnicidae	Turnix velox	Little Button-quail	-	-	1
Canidae	Vulpes vulpes*	Red Fox *	-	-	3
Equidae	Equus caballus	Horse	-	-	1
Leporidae	Oryctolagus cuniculus	Rabbit*	-	-	15
Macropodidae	Macropus fuliginosus melanops	Western Grey Kangaroo	-	-	1
Scincidae	Cryptoblepharus buchananii	Buchanan's Snake-Eyed Skink	-	-	1



Fomily	Scientific Name	Common Name	Conservat	ion Status	Count
Family	Scientific Name	Common Name	State	Federal	Count
Scincidae	Menetia greyii	Common Dwarf Skink	-	-	1
Scincidae	Tiliqua rugosa	Bobtail	-	-	1

^{*} Introduced species EN = Endangered, MA = Marine listed species # denotes species observed outside of the Survey Area

4.4.3 Fauna Habitat

Eight fauna habitat assessments were undertaken during the field survey, with two fauna habitat types identified and mapped in Figure 12 and Appendix E. Fauna habitats identified include York Gum Woodland and Cleared/Completely Degraded. It should be noted that there are varying densities of Allocasuarina thickets and Hakea, mixed throughout the woodland. The extent of fauna habitats within the Survey Area are presented in Table 7 and a description and photo for each are presented in Table 8.

Table 7: Fauna Habitat and Extent within the Survey Area

Fauna Habitat	Extent withir	Survey Area
rdulid Nabilal	Area (ha)	Area (%)
York Gum Woodland	7.35	95.0
Cleared / Completely Degraded	0.38	5.0
Total	7.73	100



Table 8: Fauna Habitat Type Descriptions within the Survey Area

Fauna Habitat	Vegetation Type Code	Fauna Habitat Description and Fauna Value	Representative Photo
York Gum Woodland	ЕІНр	Dominant species include Eucalyptus loxophleba subsp. loxophleba, Hakea preissii and Daviesia benthamii. Provides valuable refuge and breeding opportunities for several species due to the density of hollows occurring within the York Gum trees.	
Cleared / Completely Degraded	-	This fauna habitat type contains limited vegetation and has recently or previously been cleared or heavily disturbed. Provides low to no fauna value.	

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4.4.4 Conservation Significant Fauna

One fauna species of conservation significance was recorded within the Survey Area.

Carnaby's Black Cockatoo (Calyptorhynchus latirostris) - Endangered

Two Carnaby's Black Cockatoos were recorded within the Survey Area. The individuals landed briefly within a York Gum, rested briefly before leaving the Survey Area. No foraging was observed.

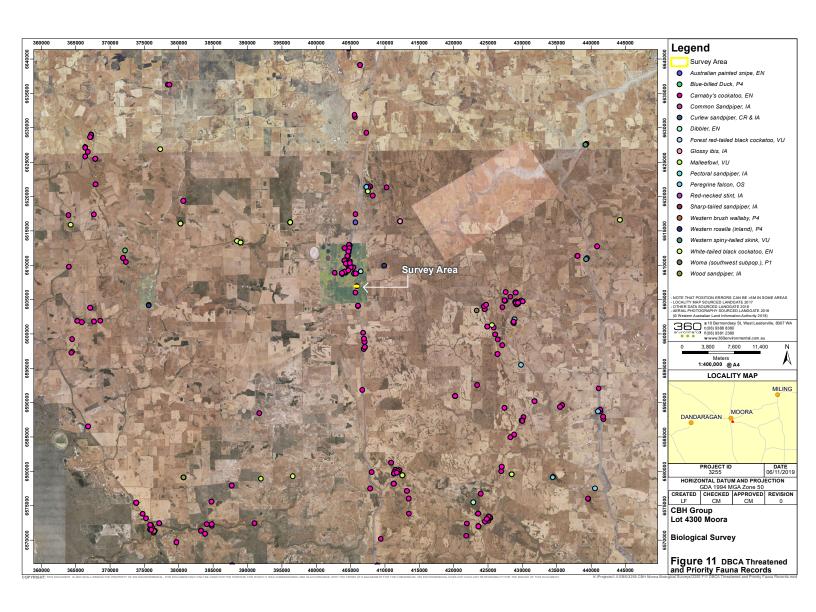
Two Marine listed species, the Tree Martin (*Petrochelidon nigricans*) and the Black-faced Cuckoo-shrike (*Coracina novaehollandiae*) were recorded within the Survey Area.

4.4.5 Post-field Survey Likelihood of Occurrence

The 32 conservation significant fauna species identified from the desktop assessment were further assessed for their likelihood of occurrence after the completion of the field survey (Table 9). The results determined that:

- One conservation significant fauna species was recorded, and includes:
 - o Carnaby's Black Cockatoo (Calyptorhynchus latirostris) Endangered
- One conservation significant fauna species are considered to have a high likelihood of occurrence within the Survey Area, and includes:
 - o Peregrine Falcon (Falco peregrinus) Other specially protected fauna
- One conservation significant fauna species are considered to have a medium likelihood of occurrence within the Survey Area.
 - Pacific Swift (Apus pacificus) Migratory/Marine.

The remaining 29 conservation significant species are considered to have a low likelihood of occurrence.



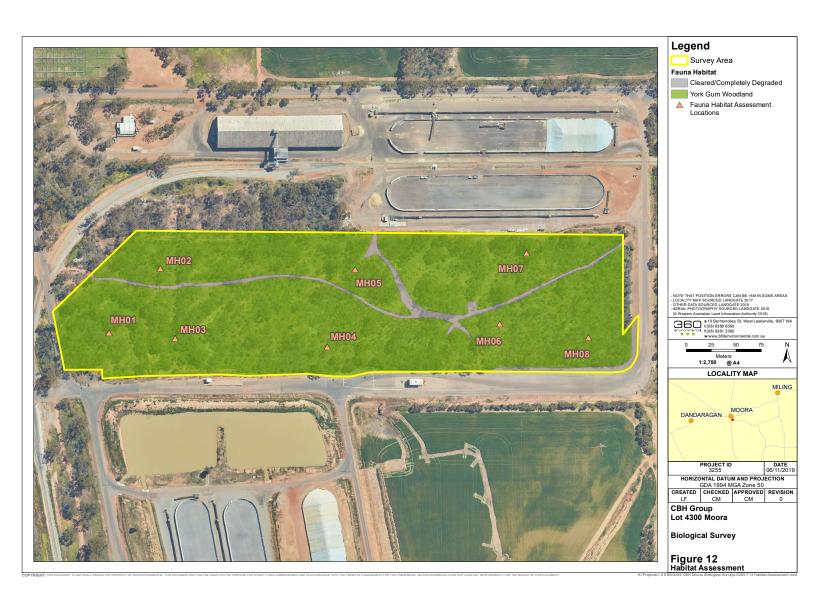




Table 9: Fauna Likelihood

Key. STATE = Wildlife Conservation Act 1950 or Department of Biodiversity, Conservation and Attractions Conservation Code, EPBC = Environmental Protection and Biodiversity Conservation Act 1999, A = DBCA Threatened and Priority Fauna Search, B = Listed in Naturemap Search, C = EPBC Protected Matters Search, # = Number of DBCA Records in Past 15 years

CR = Critically Endangered, EN = Listed as Endangered, VU = Listed as Vulnerable, IA = International Agreement, Mi = Listed as Migratory, CD = Conservation dependent fauna, OS = Other specially protected fauna, Ma = Listed as Marine under the EBPC Act, P = Listed as Priority by the DBCA.

Act, P = Listed as Pric	SCIENTIFIC NAME	COMMON NAME	CONSERV STATE	ATION CODES EPBC	^	В	С	#	HABITAT PREFERENCE	LIKELIHOOD OF
AVIAN										COCONNENCE
Anatidae	Oxyura australis	Blue-billed Duck	P4		х	х			Breeds in deep permanent, densely vegetated freshwater lakes, swamps and dams; winters on more open waters ²	Low
Apodidae	Apus pacificus	Pacific Swift (Fork-tailed Swift)	IA	MI & MA			Х	-	Low to very high airspace over varied habitat, rainforest to semi-desert ²	Medium
Cacatuidae	Calyptorhynchus banksii naso	Forest Red-tailed Black Cockatoo	VU	VU	Х			0	Tall eucalypt forest, woodland, feeds on seeds of large- fruited eucalypts ¹	Low
Cacatuidae	Calyptorhynchus latirostris	Carnaby's Cockatoo	EN	EN	х	х	х	179	Forests, woodlands, heathlands, farms; feeds on banksias hakeas, dryandras - often on ground; also exploits pine plantations ²	Recorded
Charadriidae	Thinomis cucullatus	Hooded Plover (Hooded Dotterel)	P4	MA	Х			0	Ocean beaches and margins of inland salt lakes'	Low
Falconidae	Falco peregrinus	Peregrine Falcon	os		х	х		4	Most environments with suitable nest sites: cliff faces preferred, including man-made ones, commonly uses stick nests built by other species¹	High
Megapodiidae	Leipoa ocellata	Malleefowl	VU	VU	Х	х		2	Unburned mallee and woodland with abundant litter and low scrub ²	Low
Motacillidae	Motacilla cinerea	Grey Wagtail	IA	MI & MA			х	-	Usually near fresh sandy or rocky streams, but also on mown grass, ploughed land, sewage ponds²	Low
Psittacidae	Pezoporus occidentalis	Night Parrot	CR	EN			х	-	Appears often to have been associated with spinifex, or among samphire bushes on margins of salt lakes²	Low
Psittacidae	Pezoporus wallicus flaviventris	Western Ground Parrot	CR	CR		х		-	Confined to dense heathland in Fitzgerald Reserve and Cape Arid National Parks in the south west of Western Australia ¹	Low
Psittacidae	Platycercus icterotis xanthogenys	Western Rosella (Inland)	P4		х	х			Diverse, from tall wet karri to dry woodland well inland towards the Nullabor. Most common in woodlands of salmon gum and wandoo, farmlands; less common in heavy wet karri and jarrah; scarce on most sandy west coastal plain.	Low
Rostratulidae	Rostratula benghalensis australis	Australian Painted Snipe	EN	EN & MA	Х		х	0	Surrounds and shallows of wetlands that are well vegetated with dense low cover ²	Low
Scolopacidae	Calidris acuminata	Sharp-tailed Sandpiper	IA	MI & MA	х	х	х	0	Fresh or salt wetlands – muddy edges of lagoons, swaps, lakes, dams, soaks, sewage farms, temporary floodwaters²	Low
Scolopacidae	Calidris ferruginea	Curlew Sandpiper	VU & IA	CR, MI & MA	х		х	0	Inter-tidal mudflats of estuaries, lagoons, mangrove channels; around lakes, dams, floodwaters, flooded saltbush surrounds of inland lakes²	Low
Scolopacidae	Calidris melanotos	Pectoral Sandpiper	IA	MI & MA	х	х	х	0	Usually coastal wetlands, both fresh and saline, but also inland on permanent and temporary wetlands. Uses sites with mudflats, fringing vegetation, swamps with heavy overgrowth of vegetation ²	Low
Scolopacidae	Calidris ruficollis	Red-necked Stint	IA	MI & MA	х			0	Diverse – tidal and inland on mudflats, salt marshes, beaches, salt fields, temporary floodwaters ²	Low
Scolopacidae	Numenius madagascariensis	Far Eastern Curlew (Eastern Curlew)	VU & IA	CR, MI & MA			Х	-	Widespread but patchily distributed along coast, most numerous at sites with extensive tidal flats¹	Low
Scolopacidae	Tringa glareola	Wood Sandpiper	IA		Х			0	Uses freshwater wetlands, especially those with emergent sedges and taller fringing vegetation ¹	Low
Scolopacidae	Tringa hypoleucos	Common Sandpiper	IA	MI & MA	х	х	х	0	Varied coastal and interior wetlands – narrow muddy edges of billabongs, river pools, mangroves, among rocks and snags, reefs or rocky beaches; avoids wide open mudflats. Perches on branches, posts, boats ²	Low
Scolopacidae	Tringa nebularia	Common Greenshank	IA	MI & MA	х		х	0	Diverse inland and coastal spots. Away from the coast- uses both permanent and temporary wellands — bilablongs, swamps, lakes, floodplains, sewage farms and salt works ponds, flooded irrigated crops. On the coast — uses shefered estuaries and bays with extensive mudilats, mangrove swamps, muddy shallows of harbours and lagoons, occasionally rocky total edges. Prefers wet and flooded mud and clay rather than sand ²	Low
Threskiornithidae	Plegadis falcinellus	Glossy Ibis	IA	MI & MA	Х			0	Shallow, fresh water, occasionally estuarine waters or dry grasslands ¹	Low
MAMMALIAN	0	Western Could Chair	\".	\"	,	.,	v	_	Areas dominated by sclerophyll forest or drier	
Dasyuridae	Dasyurus geoffroii fortis	Western Quoll, Chuditch	VU	VU	X	X	X	0	woodland, heath and mallee shrubland* Mature mallee heath on mainland; low heath and	Low
Dasyuridae	Parantechinus apicalis	Dibbler	EN	EN	Х	Х	Х	0	scrubland on islands ⁶ Denser and taller climax vegetation communities within	Low
Dasyuridae	Phascogale calura	Red-tailed Phascogale	CD	EN			Х	0	Wandoo and Rock Sheoak alliances ¹ Arboreal, forages on mature rough-barked trees, large	Low
Dasyuridae	Phascogale tapoatafa wambenger	Wambenger Brush-tailed Phascogale	CD		Х			0	Arboreal, forages on mature rough-barked trees, large logs and dead standing trees ⁴	Low
Macropodidae	Notamacropus irma	Western Brush Wallaby	P4		Х			0	Open forest or woodland, open seasonally wet flats*	Low
Muridae	Hydromys chrysogaster	Water-rat	P4		Х	Х			Vicinity of permanent fresh or brackish water bodies ⁴	Low
Peramelidae	Isoodon fusciventer	Quenda	P4		Х			1	Sandy soils with dense heathy vegetation ⁴ Variety of inland habitats including Mitchell Grass and	Low
Γhylacomyidae	Macrotis lagotis	Bilby, Dalgyte	VU	VU	х			0	stony downs country of cracking clays, desert sandplains and dune fields sometimes containing laterite, with hummock grassland and massive red earths with Acacia shrubland*	Low
REPTILIAN										
Cheluidae	Pseudemydura umbrina	Western Swamp Turtle	CR	CR	Х			0	Restricted to small clay-based temporary swamps at Bullsbrook, Perth ³	Low
Pythonidae	Aspidites ramsayi	Woma	(southwest populati		Х			0	Woodlands, heaths and shrublands, often with spinifex ³	Low
Scincidae	Egemia stokesii badia	Western Spiny-tailed Skink	VU	EN	х	х	Х	0	Occupies rock crevices and hollow timber in sw. interior of WA and on Dirk Hartog Is., Shark Bay ³	Low
					_		_			

4.5 Black Cockatoo Habitat Assessment

4.5.1 Desktop Assessment

The Survey Area occurs within the known breeding distribution of the Carnaby's Black Cockatoo (Department of Sustainability Environment Water Population and Communities, 2012; Department of the Environment and Energy, 2017). The DBCA database search returned 176 records of the species within a 50 km radius of the Survey Area, of which 102 occurred within the last ten years (Department of Biodiversity Conservation and Attractions, 2019e). The Survey Area is located in the centre of a confirmed breeding area (Department of Biodiversity Conservation and Attractions, 2019e).

The Forest Red-tailed Black Cockatoo is not considered likely to occur within the Survey Area based on modelled distribution (Department of Sustainability Environment Water Population and Communities, 2012; Department of the Environment and Energy, 2017). The DBCA database search returned one record of the species within a 50 km radius of the Survey Area, which occurred in 1966 (Department of Biodiversity Conservation and Attractions, 2019e).

The Survey Area is well outside of the Baudin's Black Cockatoo known or predicted distribution (Department of Sustainability Environment Water Population and Communities, 2012; Department of the Environment and Energy, 2017). The DBCA database search did not return any records for this species (Department of Biodiversity Conservation and Attractions, 2019e).

The results of the desktop assessment are displayed in Figure 13.

4.5.2 Field Survey

Two Carnaby's Black Cockatoos were recorded within the Survey Area. The individuals landed within a York Gum, rested briefly before leaving the Survey Area. No foraging was observed (Figure 14).

4.5.3 Breeding Habitat

The Black Cockatoo habitat assessment identified 21 Black Cockatoo potential breeding trees containing a Diameter at Breast Height (DBH) \geq 500 mm (for York Gum) and \geq 300 mm (for Wandoo) within the Survey Area (Figure 14 and Appendix F). The trees comprised of York Gum (12 trees), and Wandoo (9 trees). Nine of the identified potential breeding trees contained hollows, and one of these trees contained a hollow with an opening diameter greater than 12 cm.

No evidence of Black Cockatoo breeding, including observations of birds or chew marks around hollows, was observed within the Survey Area.

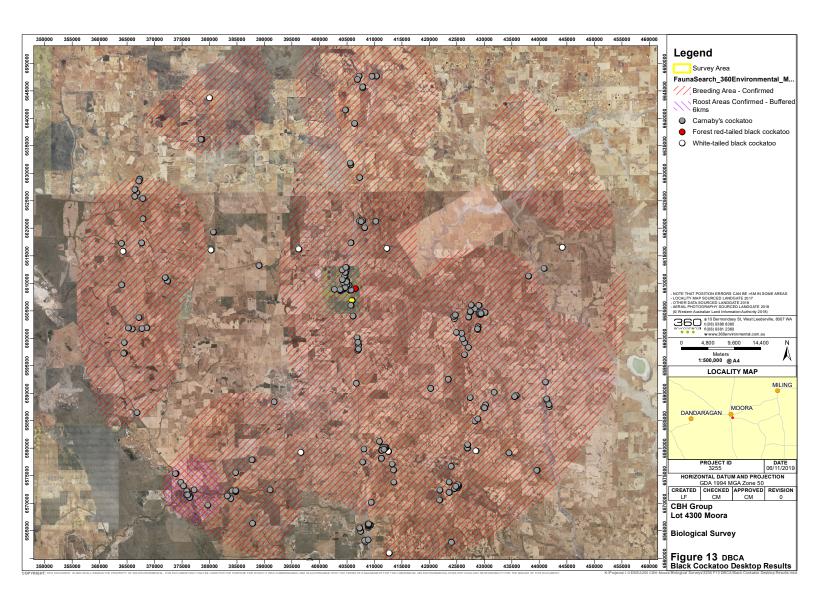
4.5.4 Foraging Habitat

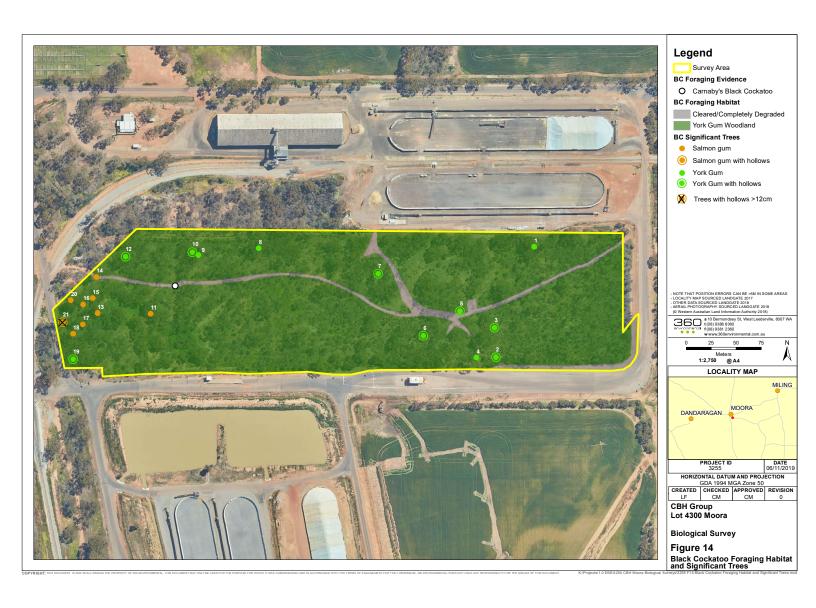
The dominant flora species recorded within the Survey Area are known and are likely to be used as foraging species for the Carnaby Black Cockatoos. These include York Gum (Eucalyptus loxophleba subsp. loxophleba), Needle Tree (Hakea preissii), and Grevillea biternata. These

species are considered low quality compared to more favourable plant species such as Marri and *Banksia* species. The entire York Gum Woodland habitat (7.73 ha) is considered low quality foraging habitat.

4.5.5 Roosting Habitat

No evidence of Black Cockatoo roosting was observed within the Survey Area.





5 Discussion

5.1 Flora and Vegetation

5.1.1 Flora

The suite of flora taxa recorded during the survey is considered typical for the respective areas (Beard 1976) and aligns with the database search results obtained. Despite the below-average rainfall recorded for the three months prior to completing the survey, the floristic diversity was considered within the expected range for the bioregion; however, it is likely the limited rainfall has resulted in lower herbaceous and annual species richness. In addition to rainfall, the disturbances across the Survey Area have likely contributed to the high proportion of weeds existent across the Survey Area which may also impact native species diversity.

The dominant flora species recorded: *Eucalyptus loxophleba* subsp. *loxophleba*, *Allocasuarina huegeliana*, *Hakea preissii* and *Daviesia benthamii* and high weed densities are consistent with the previous survey undertaken in 2006 (Bennett Environmental Consulting Pty Ltd, 2006). The Survey Area has one vegetation type with varying degrees of *Allocasuarina* densities, which is not considered to warrant the delineation of a second vegetation type.

5.1.2 Flora of Conservation Significance

No Threatened flora species pursuant to the EPBC Act 1999 and/or gazetted as Threatened/Declared Rare Flora pursuant to the BC Act 2016 were recorded during the survey.

Based on the habitat type present and known distribution, eight species have a high likelihood of occurrence within the Survey Area, these are as follows:

- Acacia cochlocarpa subsp. cochlocarpa (T, EN) is described as a glabrous, sprawling shrub, ranging between 0.3 and 1.5 m high (Department of Biodiversity Conservation and Attractions, 2019b). Flowers are yellow; however, the flowering period of this species is relatively unknown. There is one record of the species within 20km, located approximately 3 km from the Survey Area (Department of Biodiversity Conservation and Attractions, 2019f). Although the flowering period is relatively unknown, it is considered that due to its perennial and distinct nature as an Acacia species it is considered that if the species were to occur it would have likely been identified during the survey.
- Hemiandra gardneri (T, EN) is a prostrate, pungent shrub, ranging 0.1 to 0.2 m high and 1 m wide (Department of Biodiversity Conservation and Attractions, 2019b). Flowers are red to pink-red and occur between August to October (Department of Biodiversity Conservation and Attractions, 2019b). As the survey was undertaken within the flowering period of the species and due to the distinct nature of the species, it is considered that if the species were to exist within the Survey Area it would have likely been identified during the survey.



- Calytrix ecalycata subsp. pubescens (P1) is a shrub ranging up to 0.6 m high (Department of Biodiversity Conservation and Attractions, 2019b). Flowering information is relatively unknown although individual records validate yellow flowers occurring in September (Department of Biodiversity Conservation and Attractions, 2019b). There are three records of the species within 20 km of the Survey Area (Department of Biodiversity Conservation and Attractions, 2019f). Although the survey was undertaken within the suspected flowering period, due to the limited available information regarding this species it is considered to still have the potential to occur across the Survey Area.
- Stylidium sp. Moora (P2) is described as a stilted perennial herb species ranging up to 0.15 m high (Department of Biodiversity Conservation and Attractions, 2019b). Flowers are pink and have been recorded to occur during September to November (Department of Biodiversity Conservation and Attractions, 2019b). There are ten records of the species within 20 km of the Survey Area (Department of Biodiversity Conservation and Attractions, 2019f). Although the survey was undertaken during the flowering period of the species, due to the limited rainfall experiences in the region in the three months prior to the survey and the nature of herb species it is considered that the species may still have the potential to occur across the Survey Area.
- Gastrolobium rotundifolium (P3) is described as an erect, bushy shrub ranging up to 0.8 m high (Department of Biodiversity Conservation and Attractions, 2019b). Flowers are orange, yellow and red and occur August to September (Department of Biodiversity Conservation and Attractions, 2019b). There are three records of the species within 20 km of the Survey Area (Department of Biodiversity Conservation and Attractions, 2019f). As the survey was undertaken within the flowering period of the species and due its perennial nature, it is considered that if the species were to exist within the Survey Area it would have likely been identified during the survey.
- Leucopogon tamminensis var. tamminensis (P3) is an open, erect, spreading shrub ranging between 0.3 to 0.8 m high (Department of Biodiversity Conservation and Attractions, 2019b). Flowers are white and occur from June through to October (Department of Biodiversity Conservation and Attractions, 2019b). There is one record of the species located 3 km from the Survey Area identified in 1945 (Department of Biodiversity Conservation and Attractions, 2019g). As the survey has undertaken within the flowering period of the species and the perennial nature of the species, it is considered that if the species were to occur within the Survey Area it would have likely been identified during the survey.
- Melaleuca sclerophylla (P3) is an erect, spreading to prostrate shrub ranging up to 0.9 m high (Department of Biodiversity Conservation and Attractions, 2019b). Flowers are purple-pink and occur from June to September (Department of Biodiversity Conservation and Attractions, 2019b). There are four records of the species within 20 km from the Survey Area (Department of Biodiversity Conservation and Attractions, 2019g, 2019f). As the survey was undertaken within the flowering period of the species

- and its perennial nature, it is considered that if the species were to exist within the Survey Area it would have likely been identified during the survey.
- Eucalyptus x carnabyi (P4) is a mallee tree species ranging from 1.5 to 6 m high (Department of Biodiversity Conservation and Attractions, 2019b). Flowers are pink-cream and occur October to November (Department of Biodiversity Conservation and Attractions, 2019b). There are two records of the species within 20 km from the Survey Area and were recorded in 1937 and 1986 (Department of Biodiversity Conservation and Attractions, 2019g, 2019f). Although the survey was undertaken outside of the flowering period of the species due to the distinct nature of Eucalypt species, it is considered that if the species were to exist within the Survey Area it would have likely been identified during the survey.

Based on the habitat type present and known distribution, 22 species have a medium likelihood of occurrence within the Survey Area, these are as follows:

- Acacia aristulata (T, EN) is an erect or scrambling shrub ranging 0.25 to 1 m high (Department of Biodiversity Conservation and Attractions, 2019b). Flowers are creamwhite and occur September to December (Department of Biodiversity Conservation and Attractions, 2019b). There are 22 records of the species within 20 km from the Survey Area (Department of Biodiversity Conservation and Attractions, 2019f, 2019g) of which the closest is 10.3 km from the Survey Area. As the survey has undertaken within the flowering period of the species and its distinct nature as an Acacia, it is considered that if the species were to exist within the Survey Area it would have likely been identified during the survey.
- Acacia cochlocarpa subsp. velutinosa (T, CR) is a velutinous, sprawling shrub ranging between 0.3 to 1.5 m high (Department of Biodiversity Conservation and Attractions, 2019b). Flowers are yellow however flowering period is relatively unknown but has been recorded between July to November. There are no DBCA records of the species within 20km of the Survey Area. Although there is limited available information of flowering times and nearby records, due to its perennial and distinct nature as an Acacia species it is considered that if the species were to occur it would have likely been identified during the survey.
- Banksia serratuloides subsp. serratuloides (T, VU) is a low, bushy, lignotuberous shrub ranging from 0.3 to 1 m high (Department of Biodiversity Conservation and Attractions, 2019b). Flowers are yellow and occur July to September (Department of Biodiversity Conservation and Attractions, 2019b). There are no DBCA records of the species within 20km of the Survey Area. As the survey was undertaken within the flowering period of the species, its distinct nature as a Banksia species, it is considered that if the species were to exist within the Survey Area it would have likely been identified during the survey.
- Chorizema humile (T, EN) is a sprawling, prostrate or decumbent shrub (Department of Biodiversity Conservation and Attractions, 2019b). Flowers are yellow and red-brown

and occur July to September (Department of Biodiversity Conservation and Attractions, 2019b). There are no DBCA records of the species within 20km of the Survey Area. As the survey was undertaken during the flowering period, and the absence of any records it is considered that if the species were to occur within the Survey Area it would have likely been identified during the survey.

- Conospermum densiflorum subsp. unicephalatum (T, EN) is an erect, much-branched shrub ranging 0.3 to 0.6 m high (Department of Biodiversity Conservation and Attractions, 2019b). Flowers occur cream-white and blue and occur, September to November (Department of Biodiversity Conservation and Attractions, 2019b). There are two DBCA records of the species within 20km of the Survey Area. As the survey was undertaken within the flowering period of the species and its perennial nature, it is considered that if the species were to exist within the Survey Area it would have likely been identified during the survey.
- Darwinia acerosa (T, EN) is a spreading, compact shrub ranging 0.2 to 0.6 m high (Department of Biodiversity Conservation and Attractions, 2019b). Flowers are green, red and purple and occur September to November (Department of Biodiversity Conservation and Attractions, 2019b). There are three DBCA records of the species within 20 km of the Survey Area, the closest of which is 16.1 km from the Survey Area (Department of Biodiversity Conservation and Attractions, 2019b). As the survey has undertaken within the flowering period of the species and its perennial nature, it is considered that if the species were to exist within the Survey Area it would have likely been identified during the survey.
- Dasymalla axillaris (T, CR) is a an erect shrub ranging up to 2 m high (Department of Biodiversity Conservation and Attractions, 2019b). Flowers are pale red in colour and although flowering information is limited it has been recorded to occur between July and December (Department of Biodiversity Conservation and Attractions, 2019b). There are no DBCA records of the species within 20km of the Survey Area. As the survey was undertaken within the suspected flowering period of the species, the absence of any nearby by records and its perennial nature, it is considered that if the species were to exist within the Survey Area it would have likely been identified during the survey.
- Daviesia dielsii (T, EN) is a divaricate shrub ranging from 0.5 to 0.9 m high (Department
 of Biodiversity Conservation and Attractions, 2019b). Flowers are orange and red and
 occur in July (Department of Biodiversity Conservation and Attractions, 2019b). There
 are no DBCA records within 20 km of the Survey Area. As the survey was undertaken
 within the suspected flowering period of the species, the absence of any nearby by
 records and the perennial nature of the species, it is considered that if the species were
 to exist within the Survey Area it would have likely been identified during the survey.
- Gastrolobium hamulosum (T, VU) is a low shrub ranging 0.2 to 0.45 m high (Department
 of Biodiversity Conservation and Attractions, 2019b). Flowers are yellow, orange, red
 and purple and occur between August to October (Department of Biodiversity

Conservation and Attractions, 2019b). There are no DBCA records within 20 km of the Survey Area. As the survey was undertaken within the suspected flowering period of the species, the absence of any nearby by records and its perennial nature, it is considered that if the species were to exist within the Survey Area it would have likely been identified during the survey.

- Grevillea christineae (T, EN) is an erect wiry shrub ranging 0.5 to 0.6 m high (Department of Biodiversity Conservation and Attractions, 2019b). Flowers are white-cream and occur August to September (Department of Biodiversity Conservation and Attractions, 2019b). There are two DBCA records of the species within 20km of the Survey Area. As the survey has undertaken within the flowering period of the species and the distinct nature of Grevillea species, it is considered that if the species were to exist within the Survey Area it would have likely been identified during the survey.
- Grevillea pythara (T, EN) is a suckering shrub ranging 0.06 to 0.3 m high (Department of Biodiversity Conservation and Attractions, 2019b). Flowers are orange, red and blue and occur May to October (although have been recorded year round) (Department of Biodiversity Conservation and Attractions, 2019b). There are no DBCA records within 20 km of the Survey Area. As the survey was undertaken within the suspected flowering period of the species, the absence of nearby records and the distinct nature of Grevillea species it is considered that if the species were to exist within the Survey Area it would have likely been identified during the survey.
- Haloragis platycarpa (T, CR) is an annual herb ranging up to 0.3 m high (Department of Biodiversity Conservation and Attractions, 2019b). Flowers are small and are green and white in colour, occurring September to December (Department of Biodiversity Conservation and Attractions, 2019b). Although the survey was undertaken within the suspected flowering period of the species, due the limited rainfall experienced prior to the survey and the nature of herb species, it is considered that the species still has the potential to occur within the Survey Area.
- Caladenia dundasiae (P1) is a herb ranging 0.15 to 0.35 m high (Department of Biodiversity Conservation and Attractions, 2019b). The species is poorly known species and appears to be confined to the Watheroo area within the Shire of Moora. Flowers are red/cream-yellow and occur July to August (Department of Biodiversity Conservation and Attractions, 2019b). There are two records of the species located 13.4 and 15 km from the Survey Area (Department of Biodiversity Conservation and Attractions, 2019f). As the survey was undertaken outside of the known flowering period of the species, the indistinct nature of herb species and the significantly low rainfall prior to the survey, it is considered that the species still has the potential to occur across the Survey Area.
- Bossiaea moylei (P2) is a woody shrub ranging up to 2 m high (Department of Biodiversity Conservation and Attractions, 2019b). Flowers are yellow and although flowering information is limited have been observed to occur September to November

(Department of Biodiversity Conservation and Attractions, 2019b). There are eight DBCA records within 20 km of the Survey Area. As the survey was undertaken within the suspected flowering period of the species and the perennial nature of the species, it is considered that if the species were to exist within the Survey Area it would have likely been identified during the survey.

- Synaphea rangiferops (P2) is a shrub ranging up to 0.3 m high (Department of Biodiversity Conservation and Attractions, 2019b). Flowers are yellow and occur July to September (Department of Biodiversity Conservation and Attractions, 2019b). There is one DBCA record within 20 km of the Survey Area. As the survey was undertaken within the flowering period of the species and due to its perennial nature, it is considered that if the species were to exist within the Survey Area it would have likely been identified during the survey.
- Babingtonia cherticola (P3) is a shrub ranging up to 1.5 m high (Department of Biodiversity Conservation and Attractions, 2019b). Flowers are white to pale pink and occur December to March (Department of Biodiversity Conservation and Attractions, 2019b). There are 11 DBCA records within 20km of the Survey Area (Department of Biodiversity Conservation and Attractions, 2019f, 2019g). As the survey was undertaken outside the flowering period of the species, it is considered that the species still has the potential to occur within the Survey Area.
- Blackallia nudiflora (P3) is a shrub ranging from 0.3 to 1 m high (Department of Biodiversity Conservation and Attractions, 2019b). Flowers are white-pale pink and have been recorded occurring in August and September (Department of Biodiversity Conservation and Attractions, 2019b). There is one DBCA record of the species within 20km of the Survey Area (Department of Biodiversity Conservation and Attractions, 2019f, 2019g). As the survey was undertaken within the suspected flowering period of the species and due to its perennial nature, it is considered that if the species were to exist within the Survey Area it would have likely been identified during the survey.
- Guichenotia tuberculata (P3) is an erect, open shrub ranging from 0.25 to 0.9 m high (Department of Biodiversity Conservation and Attractions, 2019b). Flowers are purple and pink and occur August to October (Department of Biodiversity Conservation and Attractions, 2019b). There is one DBCA record within 20km of the Survey Area (Department of Biodiversity Conservation and Attractions, 2019f, 2019g). As the survey was undertaken within the suspected flowering period of the species and due to its perennial nature, it is considered that if the species were to exist within the Survey Area it would have likely been identified during the survey.
- Stylidium periscelianthum (P3) is a perennial herb ranging 0.07 to 0.15 m high (Department of Biodiversity Conservation and Attractions, 2019b). Flowers are pink and occur September to October (Department of Biodiversity Conservation and Attractions, 2019b). There is one DBCA record within 20km of the Survey Area (Department of Biodiversity Conservation and Attractions, 2019f, 2019g). Although the survey was

undertaken within the flowering period of the species due to the nature of herb species and the limited rainfall experienced prior to the survey being undertaken it is considered that if the species still has the potential to occur within the Survey Area.

- Stylidium sacculatum (P3) is a creeping, perennial herb ranging 0.05 to 0.15 m high (Department of Biodiversity Conservation and Attractions, 2019b). Flowers are white-pink and occur October to November (Department of Biodiversity Conservation and Attractions, 2019b). There is no DBCA records of the species within 20km of the Survey Area (Department of Biodiversity Conservation and Attractions, 2019f, 2019g). As the survey was undertaken outside of the species flowering period, the nature of herb species and the limited rainfall experienced prior to the survey being undertaken it is considered that if the species still has the potential to occur within the Survey Area.
- Verticordia huegelii var. tridens (P3) is a shrub ranging 0.15 to 0.6 m high (Department of Biodiversity Conservation and Attractions, 2019b). Flowers are green-yellow and red and occur September to November. There is one DBCA record of the species within 20km of the Survey Area (Department of Biodiversity Conservation and Attractions, 2019f, 2019g). As the survey was undertaken within the suspected flowering period of the species and the perennial nature of the species, it is considered that if the species were to exist within the Survey Area it would have likely been identified during the survey.
- Calothamnus accedens (P4) is an erect slender shrub ranging up to 1.8 m high (Department of Biodiversity Conservation and Attractions, 2019b). Flowers are pink-red and have been observed to occur from September to January, although the flowering period is not well known (Department of Biodiversity Conservation and Attractions, 2019b). There are four DBCA records of the species within 20km of the Survey Area (Department of Biodiversity Conservation and Attractions, 2019f, 2019g). As the survey was undertaken within the suspected flowering period of the species and the perennial nature of the species, it is considered that if the species were to exist within the Survey Area it would have likely been identified.

5.1.3 Vegetation Types

Due to the small sample size of quadrats (n=3) and the relatively small Survey Area (7.73 ha) statistical analysis was not relied upon for delineating vegetation types. Due to the consistency in dominant species observed across all strata levels for each of the quadrats within the of the Survey Area, one vegetation type was delineated to occur across most of the Survey Area.

5.1.4 Vegetation of Conservation Significance.

In 2015 the *Eucalypt woodlands of the Western Australian Wheatbelt* was listed as Critically Endangered under the EPBC Act. This Community is also listed as a Priority 3 Ecological Community at the state level. This ecological community has 1412 records within 15 km of the Survey Area, with several buffers intersecting the Survey Area.

Vegetation type **EIHp** meets all diagnostic criteria of the *Eucalypt woodlands of the Western Australian Wheatbelt* Approved Conservation Advice and is therefore considered to be representative of this TEC.

5.2 Vertebrate Fauna

5.2.1 Fauna Habitat

The fauna habitat identified during the survey is common throughout the surrounding area and common throughout the overall Katanning (AW2) subregion.

The York Gum Woodland fauna habitat offers foraging and nesting opportunities for birds, small reptiles and small mammal species. The hollow forming *Eucalyptus* trees (Wandoo and York Gum) provide important refuge and breeding opportunities to many species, particularly Black Cockatoo species.

5.2.2 Species Recorded within the Survey Area

One species of conservation significance was recorded during the Survey Area. Two individual Carnaby's Black Cockatoos landed briefly within a York Gum, rested briefly before leaving the Survey Area. No foraging was observed.

This species is further discussed below in the Black Cockatoo Assessment.

5.2.3 Species Considered to have a High Likelihood of Occurrence

One species of conservation significance are considered to have a high likelihood of occurrence based on the post-field survey results.

Peregrine Falcon (Falco peregrinus) – Other Specially Protected (BC Act)

The Peregrine Falcon is listed as Other Specially Protected fauna under the BC Act and is an uncommon but wide-ranging bird across Australia (Barrett *et al.*, 2003). It occurs mainly along rivers and ranges as well as wooded watercourses and lakes and nests primarily on cliffs, granite outcrops and quarries. The diet of the Peregrine Falcon has been well studied and primarily includes flocking species such as parrots, pigeons and on the east coast European Starlings (Olsen and Fuentes, 2008).

Both the DBCA Threatened and Priority Search and NatureMap Search indicated the species had been recorded in the vicinity of the Survey Area. The species distribution is widespread, and it has the ability to inhabit most environments, therefore it is likely the species will occupy the Survey Area at some point. While the Survey Area does not contain preferred breeding habitat for the species, which are cliffs the species is known to occupy existing raptor and corvid stick nests (Menkhorst *et al.*, 2017), which may occur in scattered Eucalypts. The species is unlikely to rely on habitat types identified within the Survey Area and has good dispersal abilities unless nesting, therefore disturbance within the Survey Area is unlikely to impact the species.



5.2.4 Species Considered to have a Medium Likelihood of Occurrence

One species of conservation significance is considered to have a medium likelihood of occurrence within the Survey Area. Each are discussed below.

Pacific Swift (Apus Pacificus) – Migratory and Marine under the EPBC Act

The Pacific Swift is almost exclusively aerial, flying from less than 1 m to at least 300 m above ground and probably much higher. The Pacific Swift occupies a large airspace range (i.e. low to very high) over varied habitats, ranging from rainforests to semi-deserts (Morcombe, 2003). Although the species has the potential to occur in the airspace above the Survey Area, it will not be reliant on the habitats of the Survey Area. In addition, it has not been recorded within 10 km of the Survey Area in the last 15 years.

It is therefore concluded that the species will not be depend on the terrestrial habitat identified within the Survey Area and disturbance within the Survey Area is unlikely to impact the species.

5.3 Black Cockatoo Habitat Assessment

The Survey Area contains 21 native trees that meet the criteria to be considered potential breeding trees, one of which contains a hollow of a suitable size to be used for breeding by Black Cockatoo species. The potential breeding trees which do not currently contain suitable hollows may develop them in the future. Maintaining the long-term supply of trees of a certain size with suitable nest hollows is crucial in woodland stands that are known to support Black Cockatoo breeding (DSEWPaC, 2012).

Evidence of Black Cockatoo breeding was not recorded during the field survey, however the Survey Area occurs within the known breeding range of the Carnaby's Black Cockatoo (DSEWPaC, 2012; DoEE, 2017) and may be used for breeding in future. The Survey Area occurs outside the Forest Red-tailed Black Cockatoo and the Baudin's Black Cockatoo breeding range (DSEWPaC, 2012; DoEE, 2017), therefore these species are unlikely to breed within the Survey Area.

The dominant flora species recorded within the Survey Area are likely to be used as foraging species for the Carnaby Black Cockatoo. These include York Gum (Eucalyptus loxophleba subsp. loxophleba), Needle Tree (Hakea preissii) and Grevillea biternata. These species are considered low quality compared to more favourable plant species such as Marri and Banksia species. The total York Gum Woodland habitat (7.73 ha) is considered low quality foraging habitat.

Two Carnaby's Black Cockatoos were recorded within the Survey Area. The individuals landed within a York Gum, rested briefly before leaving the Survey Area. No foraging was observed.

Although no evidence of roosting was observed within the Survey Area, both York Gum and Wandoo species have the potential to be used for roosting by Black Cockatoos.

6 Report Disclaimer

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It is important to recognise that site conditions, including the extent and concentration of contaminants, can change with time. This is particularly relevant if this report, including the data, opinions, conclusions and recommendations it contains, are to be used a considerable time after it was prepared. In these circumstances, further investigation of the site may be necessary.

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Appendices

Appendix A Database Searches

				Cons		Pop	Sub Pop							Mature	JuvenileC See	llingC				
								Private Property, Lot 51 (68 Kiaka Road). E side of The Midlands Road, 15km N of												
								Moora. Roadside quarry. Site R96/01, W end of rehabilitated block. Moora. Mining												l .
212	102398	14051	Acacia aristulata	T	EN	1	I A	tenement M7000191.	MOORA	PRI	QUA	04/11/2000 0:00	ESTMT	1			1	N	ı	
								Private Property, Lot 51 (68 Kiaka Road). E side of The Midlands Road, 14km N of												l .
								Moora. Roadside quarry. W most ridge of mine, site WOR005/6, ca. 350m ENE of												l .
213	102399	14051	Acacia aristulata	T	EN	1	l B	entry to Goonderoo farm. Moora. Mining tenement M7000191.	MOORA	PRI	QUA	22/10/2000 0:00		0			0	N	ı	
								Unnamed NR (Cairn Hill) R 47694. E side of the Midlands Road, 10km N of Riley rd												l .
								in morra. Go E 500m towards phone/radio tower, then turn S into gravel pit. Pop												l .
214	91637	14051	Acacia aristulata	T	EN	2	2	on E side of pit (Plants also on track going to pit).	MOORA	cc	CFF	22/09/2008 0:00	ACT_IND	33			0	35000 N	ı	
																				l .
								Unnamed NR (Cairn Hill) R 47694. [Population extension 600m S of original												l .
								Population 3 location] 10Km North of Moora, turn east of Midlands rd. After 50m												MODERAT
215	91638	14051	Acacia aristulata	T	EN	3	3	turn S at the fork. drive approx 700-900m to the eastern side of the gravel pit.	MOORA	CC	CFF	02/10/2008 0:00	ESTMT	50			0	50000 N	ı	E
																				l .
217	91640		Acacia aristulata	T	EN	5	5	Dalaroo East Road, N & S verges. 1.2-1.4km east of the Midlands Road. Moora.	MOORA	LGA	VER	22/09/2008 0:00		25			0	12000 N		
218	91641	14051	Acacia aristulata	T	EN	6	5	Dalaroo East Road, road verge. 3.7km east of the Midlands Road. Moora.	MOORA	LGA	VER	22/09/2009 0:00	ACT_IND	0		1	0	1000 N	ı	
								L												l .
			Acacia congesta subsp.				1	Crown Reserve 47693, ca 11 km north of Moora, on east side of Millendon		1										l .
472	91711	14064	cliftoniana	1		6	5	Junction Narngulu Railway, at beginning of track to Cairn Hill Railway Station.	MOORA	RAI	RRE	29/11/1999 0:00		0			1	N	ı	
								12.8 kilometres west of Barberton, Moora District. (Assumed to be on		UNKNOW	UNKNOW									l .
501	91722	14066	Acacia cummingiana	3	1	2	2	Wandawallah Road, awaiting confirmation).	MOORA	N	N	26/09/1971 0:00		0		_	0	N	1	
																				l .
								3.3 kilometres west of Barberton West Road on Wandawallah Road. Turnoff												l .
504	91725		Acacia cummingiana	3	1	5	5	about 8 km west of Bindoon-Moora Road, just north of Barberton.	MOORA	LGA	VER	16/10/2003 0:00		0			0	Y		
2684	95085	45402	Babingtonia urbana	3	1	3	3	N side of Four Wheel Dr, ca. 0.7 km W of the junction with Prices Rd.	MOORA	PRI		15/11/1988 0:00		0		_	0	N	1	
			Banksia dallanneyi							UNKNOW	UNKNOW									l .
3005	96412	32696	subsp. pollosta	3	1	6	5	Just west of Moora cemetery.	MOORA	N	N	09/08/1993 0:00		0			0	N	ı	
								974 Balarong Road, Barberton (Crown Lease I-123418; Expl. Lic. 7003007, Bauxite												l .
								Resources), north of Barberton East Road, [ca 10 km east from Bindoon Moora												l .
4377	94314	18039	Caladenia dundasiae	1		3	3	Road].	MOORA	PLB	PAS	07/09/2007 0:00		0		_	0	Y		\vdash
								Approximately 50m south of Wass Road, on the eastern road verge of Wirrilda												1
								Road, south of Moora. Plants have also previously occurred at the junction of						_			_			l .
4979	99332	5396	Calothamnus accedens	4		1	l A	Wirrilda Road and Wass Road.	MOORA	LGA	VER	22/02/2005 0:00		7		_	7	Y		
								Location No. 3525, Lease No. P-781, Wass Rd/Wirrilda Rd, Koojan. Approx 50m S												l .
								of Wass Rd, along Wirrilda Rd, adjacent to population 1A, within 1m of the												l .
4980	99333	5396	Calothamnus accedens	4	ı		l B	fenceline (on eastern side of Wirrilda Rd).	MOORA	PRI		22/02/2005 0:00	ACT_IND	3		_	4	Y	'	
			Calytrix ecalycata					Crown Reserve 10006, [Capitela Road, 3.1 km south of] Barberton West Road,											.	l .
5151	94958	19977	subsp. pubescens	1		3	l .	[23.5 km] SW of Moora.	MOORA	LGA	WAT	29/09/1988 0:00		0			0	N	1	-
				_				Bulbarnet rd, 5.3km East of the Midlands rd(Really Bindoon-Moora rd) on both												l .
6445	87745	5504	Darwinia acerosa	T	EN	8	3	sides of road, with majority on the south side.	MOORA	LGA	VER	12/09/2012 0:00	ACT_IND	0		_	0			-
																				l .
								Unnamed (Cairn Hill) NR (R 47694). 10km N of Riley Rd along the Midlands Rd, on												l .
				_		١.		E side. Turn S at fork in roads, go 600m to E edge of gravel pit. Pop is a further										L	.	l .
6713	86659	3806	Daviesia dielsii	-	EN	- 3	1	200m E, plants also to N of gravel pit along tracks. Moora.	MOORA	cc	CFF	24/09/2008 0:00	ESIMI	350		_	350	N	4	
							1	Unnamed (Cairn Hill) NR (R 47694). 10km N of Riley Rd along the Midlands Rd		1										l .
							1			1										l .
6719	86665	2000	Daviesia dielsii	_	EN		J	entry on E side. Go E 500m towards phone tower & turn S into gravel pit. Pop is on E side, also along track to phone pole (350-900m E of Midlands Rd). Moora.	MOORA	cc	CFF	22/09/2008 0:00	ACT IND	,			2		.	l .
0/19	60000	andb	naviezig digizii	-	LIN	5	,	Prices Road, on E verge in gravel pit, & on W verge. Ca. 4.7-5.1km south from	IVIOURA	CC.	CFF	22/09/2008 0:00	ACI_IND	3		_	3	I.	•	
6720	86650	2000	Daviesia dielsii	_	EN	10	,	Coomberdale West Road. Moora.	MOORA	LGA	VER	02/10/2008 0:00	ECTRAT	_			0	١.	,	l .
0720	00000	3800	paviesia uidisii	-	LIV	- 10	-	Private Property Lot 201(previoulsy M578). N side of Dalaroo East Road, ca 8km	WIOOKA	LUA	VEN	02/10/2008 0:00	ESTIVIT	9		_	9	IN.	•	$\overline{}$
6724	86654	2000	Daviesia dielsii	_	EN	14	.l	NNE of Moora.	MOORA	PRI		30/11/1999 0:00	ACT INC	,			2	١.	,	l .
0/24	80004	andb	naviezig digizii	-	LIN	14	_	INITE OF INIOUTA.	IVIOURA	r RI	_	20/11/1999 0:00	ACI_IND	2		_	- 4	I.	•	
							1	Private Property, Lot 51 (68 Kiaka Rd). East side of the railway reserve/The		1										l .
								Midlands Road, adjacent to Cairn Hill Siding. Ca. 650m E of entry to Goonderoo												l .
6726	86656	2000	Daviesia dielsii	_	FN	16		farm from the Midlands Rd. Moora, Mining tenement M7000191.	MOORA	PRI	QUA	22/10/2000 0:00		_			0	١.	,	l .
7229	90600		Diuris recurva	1 4		16		In Shire res on NE side of Geraldton Hwy. On NW side of res.	MOORA	LGA	QUA	27/06/1991 0:00		0		_	10	N		
1229	טטסטצ	12936	Diuris recurva	4		-	,	Lot M575, Moora (P. & J. Gardiner). Adjacent to SE corner of un-named Nature	IVIOURA	LOA	_	71/00/1991 0:00	ESTIVIT	U		_	10	I.		
			Eremaea sp. Cairn Hill					Reserve, 4 km SSE of Cairn Hill, [ca 1.6 km east of The Midlands Road], ca 15 km		1	UNKNOW									l .
7632	95588	202.00	(B. Morgan 532)		J	Ι.	.1	north of Moora (Expl. Lic. 7002750, Simcoa Operations).	MOORA	PRI	OWKNOW	12/12/2004 0:00	ACT INC				2			l .
/032	32200	28242	(D. IVIUI gall 332)	-		-	-	moran or moora (expl. Lic. 7002750, Sifficoa Operations).	IVIOURA	r RI	IN .	12/12/2004 0:00	ACI_IND	U		_	- 4	I.	•	$\overline{}$
							1	Road Reserve. Bindoon-Moora Road, 9.1-10.4km south of Drummond Street		1										MODERAT
					1		1	nodu neserve. piniopon-ivipora nodu, 5.1-10.4km South of Drummond Street	1	1	1		I	1					I	IVIODERAI
7980	100332	7266	Eremophila scaberula	т	CR	1	I A	(Moora Townsite), west side road, ca.400m south of entrance to Ranfurly Park.	MOORA	MRD	VER	17/06/2010 0:00	FSTMT	37			n	N-	,	F

				Cons			b Pop							Mature	JuvenileC				
	Popld																		
								Railway Reserve. Bindoon-Moora Road, 9.6-10km S of Drummond Street (Moora											
								Townsite), E side road between telephone poles 140/12 & 140/03, opposite to											
								Ranfurly Park entrance, on both sides of railway line and extends to S side of											
7981	100333	7266	Eremophila scaberula	Т	CR	1 B		Barberton East Road.	MOORA	RAI	RRE	22/10/2015 0:00	ACT IND	199			0	Y	HEALTHY
								Nature Reseve No. 23179. Bindoon-Moora Road. 11km south of Drummond Street											
7982	100334	7266	Eremophila scaberula	т	CR	1 C		(Moora Townsite), east side road, with railway reserve bisecting reserve.	MOORA	cc	CFF	19/11/1996 0:00		0			0	N	
7302	100334	7200	Eremopinia scaperaia	_	CIT	- 10		(WOOTE TOWNSTEE), CEST SIDE TOUG, WITH TERRED TESTIVE DISCERNING TESTIVE.	MOORE		CIT	15/11/1550 0.00							
								Road Reserve. Bindoon-Moora Road, 4.65-5.63km south of Drummond Street		1									MODERAT
7983	100336	7200	Eremophila scaberula	-	CR	2 A		(Moora Townsite), east side of road, on both sides of the railway line.	MOORA	MRD	VER	17/06/2010 0:00	CCTN AT	41					MODERAT
/983	100330	/200	Eremophila scaperula	1	CR	2 A		(Moora Townsite), east side of road, on both sides of the railway line.	MUUKA	IVIKU	VER	17/06/2010 0:00	ESTIVIT	41			U	IN	
								Railway Reserve. Bindoon-Moora Road, 4.65-5.63km south of Drummond Street		1									
								(Moora Townsite), east side of road between telephone poles 136/02 and 135/01,											
7984	100337	7266	Eremophila scaberula	T	CR	2 B		on both sides of the railway line and railway service road.	MOORA	RAI	RRE	22/10/2015 0:00	ACT_IND	187			0	Y	HEALTHY
										1									
								Road reserve. Bindoon-Moora Road east side, 20.1-22.5km south from Drummond											MODERAT
7985	100339	7266	Eremophila scaberula	T	CR	3 A		Street in the Moora Townsite, either side of a farmers gate to Location No. M98.	MOORA	MRD	VER	17/06/2010 0:00	ESTMT	71			0	N	E
								Railway Reserve. East side between telephone poles 125/01 to 124/04, Bindoon-											
								Moora Road, 20.1-22.5km south from Drummond Street in the Moora Townsite,		1									
7986	100340	7266	Eremophila scaberula	т	CR	3 B		either side of a farmers track/gate to Location No. M98.	MOORA	RAI	RRE	23/10/2015 0:00	ACT IND	251			0	Y	HEALTHY
						-		Road Reserve. Continuation of Fry Street road reserve, Moora. Pop is ~55m W of				20, 20, 2020 0.00							
7987	116429	7266	Eremophila scaberula	т	CR			the Long Street and Fry Street interstection.	MOORA	LGA	VER	25/08/2017 0:00	ACT IND				0	40 Y	HEALTHY
7307	110425	7200	LTETHOPTHIA SCADEFUIA		CK	- 4		North West Road, ca. 5km NW from the intersection with Dandaragan Road, west	WOORA	LGA	VER	23/08/2017 0.00	ACI_IND				U	40 1	HEALIHI
				_	CR				MOORA	LGA	VER								
8171	90776	13093	Eucalyptus absita	1	CR	8		of Moora. Herbarium Collection.	MUUKA	LGA	VER	10/05/1999 0:00	ACI_IND	32			32	Y	
								SW corner of Melbourne Location 3553. At the end of the track which runs W of		1									
								Boundary Rd at 1.8 km S of the junction with Barberton Rd. (2.4 km W of Boundary		1									
9190	93631	16944	Eucalyptus x carnabyi	4	1	3		Rd and 2.8 km S of Barberton Rd).	MOORA	PRI		19/07/1986 0:00	ACT_IND	15			15	N	
			Gastrolobium							1									
9605	86830	3922	rotundifolium	3	3	10		Bubberton East Rd, ca.2.2km E from junction of Bindoon-Moora Rd (both sides).	MOORA	LGA	VER	21/11/2006 0:00	ACT_IND	54		20	74	N	
								Private Property, Lot.52. The Midlands rd, Kiaka Rd., ca.15km N of Moora. Site											
9775	89121	7491	Goodenia arthrotricha	T	EN	1		CHN, RFS. Chert Ridge (CHN).	MOORA	PRI		01/09/2006 0:00	ACT IND	4			4	N	
								Railway Reserve. Koojan siding is 18 km south of Moora and Moora to Bindoon				. , ,							
								Road. Population is along road/rail verge on eastern side of Moora to Bindoon		1									
11376	106561	6177	Haloragis platycarpa	т	CR	2		road on both sides of rail line.	MOORA	RAI	RRE	04/10/2011 0:00	EVT TONE	230	320	1100	0		HEALTHY
11370	100301	01//	rraioragis piatycai pa		CK	- 2		Toda on both sides of fail fille.	WOORA	N/U	INNE	04/10/2011 0.00	LAI_INNS	230	320	1100	U		HEALIHI
									MOORA								0		
13365	88193	5963	Melaleuca sclerophylla	-	5	2		Cattady Rd, at 0.35 km N of the junction with Dalaroo Rd.		LGA		07/11/1990 0:00		U			U	N	
								Lot M49A, Koojan. [3.9 km east of] Bindoon Moora Road, [3 km south of Bulbarnet		1									
13518	92712	14726	Micromyrtus rogeri	1		1		Road].	MOORA	PRI		13/11/1990 0:00		0			0	N	
										1									
								Railway Reserve [Millendon Junction to Narngulu Railway]. 35km S [?13km S] of		1									
14218	94998	20167	Pertusaria trachyspora	2	2	4		Koojan. [Railway adjacent to Bindoon-Moora Rd]. Shire of Moora.	MOORA	RAI	RRE	03/01/2004 0:00	ı	0			0	N	
								Dalaroo Rd [Dalaroo East Rd]. N of Moora along Midlands Rd, [360m NE of											
14219	94999	20167	Pertusaria trachyspora	- 2	2	5		Dalaroo]. Shire of Moora.	MOORA	LGA	VER	04/01/2004 0:00		0			0	N	
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					Reserve 47694. 0.5 km E of The Midlands Rd (Geraldton Highway), at ca 3.5 to 4.5											
14965	99838	6015	Regelia megacephala		1	1 A		km S of Klaka Rd. Lot M574, Mel Loc 909.	MOORA	cc	CFF	23/11/1982 0:00	ESTMT	0			7350	Y	
			gena megacepinasa					0.5 km E of The Midlands Rd (Geraldton Highway), at ca 1.8 to 3.2 km S of Kiaka		-		20, 22, 2302 0.00							
14966	99839	6015	Regelia megacephala			1 B		Rd. Lot PtM573. Mel Loc 909.	MOORA	PRI	QUA	23/11/1982 0:00	ESTMT				7350	v	
14300	22039	0015	negena megacepildid	-		1 6		0.8 km E of The Midlands Rd (Geraldton Highway), at ca 5.3 km S of Kiaka Rd. Lot	JUNA	- PAI	QUA	23/11/1302 0:00	COTIVIT				/330		
14967	00200	COSE	D	Ι.	.1	2		M577, Mel Loc 909.	MOORA	PRI		24/11/1982 0:00	CCTN AT	١ ,			5750	,	
14967	88206	6015	Regelia megacephala	- 4		2			WIOUKA	PKI	_	24/11/1982 0:00	ESIMI	- 0			5/50	Y	
					.1	l J		0.15 km NE of Dalaroo East Rd, at ca 3.2 km E of the junction with The Midlands		L								1.	
14968	88207	6015	Regelia megacephala	- 4	1	3		Rd (Geraldton Highway). Lot M579, Mel Loc 909.	MOORA	PRI		24/11/1982 0:00	ESTMT	0			1650	Υ	
								0.6 km E of The Midlands Rd (Geraldton Highway), at ca 1 km S of the junction		1									
14969	88208	6015	Regelia megacephala	4	1	4		with Kiaka Rd. Lot PtM573, Mel Loc 909.	MOORA	PRI		25/11/1982 0:00	ESTMT	0			2050	Y	
								1.5 km E of The Midlands Rd (Geraldton Highway), at 1 to 2.5 km N of Kiaka Rd. E		1									
14970	99841	6015	Regelia megacephala	4	1	5 A		boundary of Lot 1, Mel Loc 909.	MOORA	PRI		25/11/1982 0:00	ESTMT	18		30	48	N	
								1.5 km E of The Midlands Rd (Geraldton Highway), from 1 to 2.5 km N of Kiaka Rd.											
14971	99842	6015	Regelia megacephala		1	5 B		W boundary of Lot PtM572, Mel Loc 909.	MOORA	PRI		25/11/1982 0:00	ACT IND	18		30	48	N	
			BerraBaresprinia									20, 22, 2002 0.00					- 10	-	
					1			'Cairn Hill' (47694).Radio Tower on 'Cairn Hill', 10.9km north of Moora River		1									
					1					1									
				L		1 .		Bridge on the Midlands Road, then 1.2km east of Midlands Road, on Location No.						١				l.,	
16006	93310		Synaphea quartzitica	1	EN	1		M574. Follow track from base of radio tower down hill through clump of wandoo.	MOORA	cc	CFF	09/04/2001 0:00	ACT_IND	91		6	91	N	
			Verticordia huegelii var.	1	1			Gravel Reserve No. 25256. Barberton West Road approximately 500 metres south		1									
16945	90037	12431	tridens	- 1	3	5		of Wandawallah Road junction.	MOORA	NON	GRA	17/10/1992 0:00	ACT_IND	0			15	N	
			Verticordia insignis					Verge of Barberton West Rd, ca. 5.7 km SW from the junction with Wandawallah											
16964	90053	12434	subsp. eomagis	3	3	9		Rd.	MOORA	LGA	VER	14/09/1988 0:00		0			0	N	
			Verticordia insignis																
16968	90046	12434	subsp. eomagis		3	13		Gravel Reserve 15918. Wandawallah Rd, 5 km W of Barberton West Rd.	MOORA	LGA	GRA	03/11/1992 0:00		n			0	Y	
												, ,							

NameID	Taxon	Conc Code	Plant Desc	Sito	Vegetation	Frequency	Notes	Locality	Goo Moth	Precision	Date
Nameid	Taxon	Cons_Code	Plant_Desc	Site	vegetation	rrequency		11 km N of Moora along	Geo_weth	Precision	Date
14051	Acacia aristulata	т	Erect compact shrub 27 cm high, spreading 1 m.	Red clayey sand.	Open scrub to shrubland.		frequent	Midlands road	MAN	0	16/10/1991
								100 m before radio tower			,,
								'Cairn Hill', ca 0.9-1.1 km			
				Hill top, dry stoney, brown clayey sand,			Abundance:	from road, ca 12 km N of			
14051	Acacia aristulata	T	Low sub shrub. Flowering pale yellow, pale green foliage.	chert.	Open Tree mallee over Dense Heath A, Allocasuarina.		patchy.	Moora,	GPS	1	04/11/1997
				Rocky rise. Pale brown sandy clay over	Weedy road verge with Allocasuarina huegeliana, Isopogon sp.,			Dallaroo Road, 1.2-1.4 km			
14051	Acacia aristulata	T	Low spreading shrub to 60 cm with cream yellow flowers.	chert.	Xanthorrhoea sp., Hibbertia sp.			E of Midlands Road	GPS	1	11/11/1997
								1.2-1.4 km E of Midlands Road on Dalargo East			
			Sprawling, untidy shrub 80 cm high. Pale yellow flowers. Bright pale green	Slight hill, dry stony brown sandy clay,			Abundance:	Road, N of Moora, N road			
14051	Acacia aristulata	т	foliage, quite soft.	chist	Scrub, Allocasuarina sp., Melaleuca sp.		patchy.	verge,	GPS	1	04/11/1997
			Erect (to 0.4 m tall) to diffusely spreading or scrambling shrub, stems				p	10.00/			0.72272551
			slender and white (orange-brown with age). Stipules light brown, persistent			uncommon (ca 10					
			and evident (to unaided eye) on branchlets. Phyllodes erect, light green.	Southern slope of low rocky hill, (slopes		plants seen) and very		14 km N of Moora, then 1			
14051	Acacia aristulata	T	Flower-heads creamy white, 9 mm	above quarry).		localized.		km E of Midland Road	MAN	3	01/12/1986
						10+ mature plants,					
					Open low woodland of Allocasuarina huegeliana with open shrubland of	flowers, immature		Cairn Hill, lower slopes			
				W slope. Pale yellow brown clay loam	Dryandra sessilis, Allocasuarina campestris and low shrubs of Baeckea sp.	fruit and fruit		beside railway (E side) at			
14051	Acacia aristulata	Т		and chert.	Moora.	dehisced.		ca 11 km N of Moora	GPS	1	29/11/1999
							Adult population.				
							Percentage of	1.4 km E of Midlands Road			
					Low shrubland. Allocasuarina sp., Acacia sp., Xanthorrhoea sp., Banksia			along the Daleroo East	'		
14051	Acacia aristulata	т	Erect, open shrub .7 m high x 1 m wide. Not flowering.	Breakaway, ridge, chert. Dry, grey, rocky.		21-50 plants.	50%.	Road, N and S verge	GPS	1	22/09/2008
			,						0.0		
								Cairn Hill Reserve, 10 km			
								N of Riley Road (Moora)			
								along Midlands Road. E			
								side drive in 500 m			
								towards telephone tower			
					Tall shrubland. Banksia sp., Melaleuca sp., Acacia sp., Allocasuarina sp.,		Adult population,	and then S into gravel pit			
14051	Acacia aristulata	T	Prostrate, open shrub 0.4 m high x 1.2 m wide.	rocky. Cairn hill.	Calytrix sp., Hibbertia sp.	21-50 plants.	fruiting.	on E side	GPS	1	22/09/2008
								Cairn Hill turning S at fork			
								in the tracks, drive 600 m			
				Breakaway, hillside. White-brown clay,	Tall shrubland. Banksia sp., Allocasuarina sp., Calytrix sp., Daviesia dielsii,			to E edge of gravel pit,			
14051	Acacia aristulata	т	Prostrate shrub 0.2 m high x 0.15 m wide. Not flowering.	rocky. Gravel pit.	Acacia sp.	6-20 plants.		then 200 m E, Moora	GPS	2	24/09/2008
			Domed shrub 0.4 m tall and 1 m diameter. Branches not rigid. Branchlets					11 km N of Moora on the			, ,
			whitish grey. Phyllodes erect, mid-green. Heads cream 10 mm diameter,	Edge of track above disused quarry.				Midlands Road then 0.5			
14051	Acacia aristulata	T	mostly in bud (with bracteoles exserted).	Rocky ground on lower slopes of low hill.				km E	MAN	0	16/09/1987
					Low Scrub A over Heath B over Dwarf Scrub D (Scheme of Muir 1977);			Road Verge, Dalaroo East			
				Low ridge, well drained; brown loamy	Allocasuarina campestris, Dryandra sessilis, Dibbertia subvaginata,		Abundance:	Road, 1.3km E of Midlands			
14051	Acacia aristulata	T	Recumbent shrub.	sand, very rocky; chert (Quartzite).	Loxocarya flexuosa.		common.	Road, N of Moora	MAN	1	08/11/1990
								Site WOR006. ca 15 km N			
								of Moora. The			
1								westernmost ridge of the			
				Gentle mid-slope on E side of ridge, close				mine. This site is towards			
				to cleared area. Gravelly, pebbley grey-	Allocasuarina huegeliana scattered low tree to low open woodland over			the southern end of the			
1				brown (some humus) silt/fine sand	Dryandra sessilis var. sessilis, Xanthorrhoea drummondii scattered tall			ridge, ca 500 m ENE of the			
1					shrubs over Kunzea praestands high open shrubland to high shrubland			entry to Goonderoo farm			
14051	Acacia aristulata	T		litter layer. Burnt > 10-15 years ago.	over Hibbertia subvaginata open heath over D			from the Midlands Road	GPS	1	22/10/2000
1				1			Regelia cover is ca				
							90% in lower half				
							of plot, 50-70% in				
							upper half. Plants				
							also greener and				
							taller. Yellow and				
				Laurenders and feelen of	Baralla arranghala alamadan arrangha arran Talfalla		under stress midslope. 1 x				
				Lower slope, north-facing, of waste	Regelia megacephala closed to open scrub over Trifolium spp., Bromus diandrus, Pentaschistis airoides open herb/grassland. Acacia aristulata,		midslope. 1 x Allocasuarina	Site No. R96/01. Ca 15 km			
				dump. Gravelly, fine silty pale brown sand with quartz boulders. Topsoil thinly	Allocasuarina campestris, Austrodanthonia acerosa, Austrostipa			N of Moora. W end of			
14051	Acacia aristulata	т	One shrub in rehab. plot, 40 cm high.	returned over mine waste.	tenuifolia. Avena barbata. Briza maxima. Bromus d			1996 rehabilitation block	GPS	,	04/11/2000
14031			and an an an analysis proc, 40 cm mgm.	Over mine work.	and a second of the second of		aunutu present.	Chabination block	2.0	-	/12/2000

					Allocasuarina huggellana and Azacia acuminata subsp. acuminata sattered low trees over Dryandra sessilis var. sessilis scattered tall			Site No. CAH005. Cairn Hill Westrail Reserve, approximately 11 km north of Moora on the Midlands Road. The plot is on the slope to the N side of the track from the gravel pits to the radio			
14051	Acacia aristulata	т	Low shrub 50 cm high.	Gentle midslope. Brown fine sand/silt. Good mulch cover.	shrubs over Kunzea praestans closed heath to closed scrub over Melaleuca calyptroides, Calothamus sanguineus, Calytrix			tower, approx. 600 m east of the Midlands Road	GPS	1	23/10/2000
	Acocia aristulata	T		Western slope of N-S ridge, towards S end (Breakaway). Grey fine sand.	Regelia megacephela open scrub over Hibbertia subvaginata open shrubland to low open shrubland over Burchardia umbellata, Trifolium arvense var. arvense/Justrodarthonia acerosa, Vulpia myuros var. hirstua very open herf			Site No. WOR005. About 15 km north of Moora. The western most ridge of the mine. This site is towards the southern end of the ridge, approximately 350 m ENE of the entry to Goonderoo farm from the Midlands Road.	GPS	1	22/10/2000
	Acacia aristulata	т		Gently sloping upper hillslope. Gravelly, pebbly sillceous silt/fine sand. Some litter. Fire age: 5-10 years ago.	Eucalyptus eudesmioides subsp. eudesmioides low mallee open woodland to woodland over Regella megacephala open to closed scrub over Kuruse praestans, Xanthornhoea drummondii scattered shrubs over Allocassurina campestris shrubland to gene heath, over Mich			Site No. CAH006. Cairn Hill Westrail Reserve, approximately 11 km north of Moora on the Midlands Road. The plot is ca 200 m NNW of the radio tower		1	
	Acacia cochlocarpa subsp. cochlocarpa	т						Westward from Moora	AUTO	3	12/06/1901
	Acacia congesta subsp. cliftoniana	1		Slope W aspect, yellow brown clay loam.	Open low woodland of Allocasuarina campestris over shrubs with Dryandra sessilis, Baeckea sp. Moora and Acacia congesta subsp. congesta.	1 mature plant, vegetative.		Ca 11 km N of Moora E side of railway line at beginning of track to Caim Hill	MAN	0	29/11/1999
14066	Acacia cummingiana	3		Grey sand/yellow, broad upland.	Heath.			Farm N of North West Road, W of Moora AMG 50JLM872202 (Lake Dalaroo 1:50,000 sheet).	MAN	0	13/09/1988
		3	Leafless subshrub.					8 miles W of Barberton, Moora district	AUTO	3	26/09/1971
	Acacia cummingiana Acacia cummingiana		Sprawling open bush 0.3 m high. Flowers yellow.	In gravelly soil. On yellow sand.	In low open woodland/heath with Eucalyptus todtiana and Banksia prionotes.		Fairly uncommon.	3.3 km W of Barberton West Road on Wandawulla Road. Turnofi about 8 km W of Moora - Mogumber Road at Barberton	AUTO	3	08/06/1984
	Anigozanthos humilis subsp. Badgingarra (S.D. Hopper 7114)	2	y and the state of	Riverbank/low plain. Sand, white-grey, moist.	Woodland of Marri over Thryptomene, sparse low scrub A over dense low grass. Eucalyptus calophylla, Xanthorrhoea, Macrozamia, Pimela, Thryptomene, Hibbertia.		Abundance: 200 + plants	c. 440 - 1.4 km along Minyulo road from Moora - Caro road, ENE road verge and adjoining private land	AUTO	4	26/09/1991
	Austrostipa sp. Cairn Hill			gravelly siliceous silt/fine sand. Litter	Allocasuarina huggellana scattered low trees over Dryandra sessilis var. sessilis, xanthornhoea drummondli scattered tall shrubs over Allocasuarina campetris shruband to gone heath over Melaleuca		>10 (>15?) years	Cairn Hill Westrail Reserve, ca 11 km N of Moora on the Midlands Road. The plot is on the E side of track to the radio tower towards the top of the hill, ca 700 m along the track from the			
19959	(M.E. Trudgen 21176)	3	Open shrub 50 cm high x 70 cm wide. Sweet strong smell. Grey fissured	under Allocasuarina campestris. Hill, gravelly, stony, bare, brown clay over	calyptroides scattered shrubs to shrubland over Borya sp		since burnt.	Midlands Road, Gravel pit, c. 10-15 km N	GPS	1	23/10/2000
45397	Babingtonia cherticola	3	bark. Leaves aromatic, oil glands.	dolerite. Hills in examined area, red sand over	Woodland. (Muirs. LAI,LBr,KTI,Sc,SA,SBc,Sci,SDI,GTI,VT,Xr.)	frequent.		of Moora Gravel pit, 15 km N of	GPS	1	25/02/1997
45397	Babingtonia cherticola	3	Pink/white flowers.	quartz rock.	Scrub.	frequent.	Fresh material	Moora Cairn Hill, growing	AUTO	3	15/12/1990
45397	Babingtonia cherticola	3	Spindly shrub to 1.5 m. White to pale pink flowers.	Flat below hill. Brown, rocky sand loam.	Acacia acanthoclada subsp. glaucescens, Allocasuarina sp., Dryandra sessilis.		taken for Barbara Rye.	alongside track just E of the railway crossing	UNK	2	20/12/2004

NameID	Taxon	Cons Code	Plant Desc	Site	Vegetation	Frequency	Notes	Locality	Geo Met	1 Precision	Date
		_									
						estimated 1000		Cairn Hill, E side of			
45207	Babingtonia cherticola		Open spreading shrub to 1-1.5 x 1-1.5 m; pale pink buds, white flowers with pink centre; flowers at end of branches.	and chert gravel scree.	Open low woodland of Allocasuarina huegeliana and tall open shrubland with A. campestris, Dryandra sesselis and Regelia megacephala.	mature plants, flower buds and flowers.		Midlands Road, ca 12 km N of Moora,	GPS		29/11/199
45397	Babingtonia cherticola	3	pink centre; nowers at end of branches.	and chert gravei scree.	with At. Campestris, Diyandra sessells and Regella megacephala.	buds and nowers.		N OI WOOTA,	urs	1	29/11/199
								Site CHN.RFS. Chert ridge			
45397	Babingtonia cherticola	3						CHN, ca 15 km N of Moora	MAN	3	26/11/200
								Cairn Hill, 12 km N of			
								Moora on the Midlands Highway, on the edge of a			
								gravel track leading to a			
								Telecom tower, on E side			
45397	Babingtonia cherticola	3	Spindly plant, 1-2 m tall; in flower.	Gravel soil. Hillslope.				of railway line	AUTO	3	17/12/199
				Low rise, well drained; shallow grey sandy							
				quartz gravel, much outropping chert;	Low Scrub A over Heath B over Dwarf Scrub C (Scheme of Muir 1977);			Private Property, 12.5km			
45397	Babingtonia cherticola	3	Spreading shrub.	Noondine Chert.	Regelia megacephala, Allocasuarina campestris, Hibbertia subvaginata.	common.		at 10degrees from Moora	MAN	1	27/11/1990
								Site No. CAH002. Caim Hill			
								Westrail Reserve.			
								approximately 11 km			
								north of Moora on the			
								Midlands Road. The plot is			
								on the slope to the N side			
					Eucalyptus eudesmioides subsp. eudesmioides scattered low trees over			of the track from the			
				S facing moderate slope below crest ofhill. Dark grey sality loam. Good litter	Regelia megacephala open to closed scrub over Kunzea praestans and Melaleuca calyptroides shrubland over Xanthosia fruticulosa open low			gravel pits to the radio tower, approx. 500 m east			
45397	Babingtonia cherticola	3		layer.	shrubland over Desmocladus flexuosus open sedgela			of the Midlands Road.	GPS	1	22/10/2000
								Site No. CAH005. Caim Hill	ı		
								Westrail Reserve,			
								approximately 11 km			
								north of Moora on the Midlands Road. The plot is			
								on the slope to the N side			
					Allocasuarina huegeliana and Acacia acuminata subsp. acuminata			of the track from the			
					scattered low trees over Dryandra sessilis var. sessilis scattered tall			gravel pits to the radio			
				Gentle midslope. Brown fine sand-silt.	shrubs over Kunzea praestans closed heath to closed scrub over			tower, approx. 600 m east			
45397	Babingtonia cherticola	3		Good mulch cover.	Melaleuca calyptroides, Calothamnus sanguineus, Calytrix			of the Midlands Road.	GPS	1	23/10/2000
								Site No. CHN006. About			
								15 km north of Moora.			
								Cairn Hill North is the			
								ridge of Cairn Hill			
								extending north on to			
					Allocasuarina huegeliana, Acacia acuminata subsp. acuminata scattered			Goonderoo farm. The plot			
					low trees over Kunzea praestans open heath over Hibbertia subvaginata			is on top of the ridge,			
45207	Babingtonia cherticola	3		Ridge top. Grey loamy sand.	low open shrubland over Neurachne alopecuroidea, Austrostipa variabilis, Austrodanthonia setacea very open grassla			approximately 100 m south of CHN005.	GPS	١.,	26/10/2000
4539/	виотустна спетисова	3		riuge top. Grey loamy sand.	variaums, Austrodanthonia setacea very open grassia			SOUCH OF CRINOUS.	urs	1	20/10/2000
								AMG-Zone 50 406959mE			
								6621292m N; Railway			
				Landform: lower slope, Slope - 2x; Soil:	Structure (Muir 1977): Open Low Woodland B / Heath A / Low Heath C /			land, W of Midlands Rd, S			
				chert brown sandy gravel / chert;	Dwarf Scrub D / Open Herbs; Major spp: Allocasuarina campestris,			of Coomberdale (N of	l		
45397	Babingtonia cherticola Banksia dallanneyi subsp.	3		Drainage: good.	Melaleuca radula; long unburnt.			Moora).	MAN	0	/11/1991
32696	pollosta	3	In dense clumps, stems underground, style pale maroon.	In sand.	In Banksia prionotes low woodland with Eremaea, Acacia, Stirlingia.			Just W of Moora cemetery	MAN	0	09/08/1993
		-			, and the same of			116 mile peg on Eneabba		1	,,
								road (ca 15 km N of		1	
								Moora on Geraldton			
5377	Beaufortia bicolor	3	Compact low shrub 2 ft, flower in heads red and yellow.	Gravel pit.				Highway]	AUTO	3	19/11/1968
21600	Blackallia nudiflora	3	Flowers white pink.					S of Moora, near Koolan	MAN	3	09/09/1969
	Boronia ericifolia		2.5 ft high.	In vellow sand.				8 miles W of Moora.	MAN	3	
4410	Doronia Chajolia		And the ringers.	in yenew auto.				o mines we or Moora.	1415-114	3	01/03/130.
4418	Boronia ericifolia	2						Rowes road W of Moora.	MAN	4	06/09/1966
			Erect to spreading shrub, 50 cm x 50 cm. Flowers standard yellow, eye	Mid steep slope with brown pebbly silt	Shrubland of Kunzea praestans / Dryandra sessilis / Allocasuarina			Cairn Hill Nature Reserve,			
48779	Bossiaea moylei	2	yellow, halo red, wings ends yellow, keel red. In late flower.	over Proterozoic chert.	campestris / Regelia megacephala.	locally common.		11 km N of Moora	UNK	2	18/09/2008

NameID	Taxon	Cons_Cod	Plant_Desc	Site	Vegetation	Frequency	Notes	Locality	Geo_Meth	h Precision	Date
				Landform: hill-steep slope (mud-to							
				upper). Soil surface: gravel and chert. Soil							
				colour: grey. Underlying geology: Moora				Cairn Hill, 10 km N of			
48779	Bossiaea moylei	2		group of Protozoic rocks.	Heath. Characteristic sp.: Kunzea praestans and Dryandra sessilis.			Moora	GPS	1	27/09/2000
								Site No. WOR001, About			
								15 km north of Moora.			
							Gridlines along	The western most ridge of			
							north and south	the mine area. The site is			
				Crest of north-south orientated low ridge.	Regelia megacephala open scrub over Hibbertia subvaginata low		plot boundaries,	approximately 500 m ENE			
				To west, moderate-steep slope. T east,	shrubland to open heath. Acacia congesta subsp. congesta, Acacia		some disturbance.	of the entry to Goonderoo	,		
				gentle slope. Near the high point of the	stenoptera, Amphipogon sp., Austrodanthonia setacea, Bossiaea		Other earthworks	farm from the Midlands			
48779	Bossiaea moylei	2		ridge. Light grey fine silty sand.	eriocarpa ssp. Cairn Hill (M. Henson 2-28), Briza maxima, Burchar		south side.	Road	GPS	1	21/10/2000
								Site No. WOR003. About		1 1	
								15 km north of Moora.			
								The westernmost ridge of the mine. This site is on		1 1	
				Midslope of a lower ridge on lower part				the lower western slope, near the N-S centre,	1	1 1	
				of outcrop zone. Light grey silt/silty fine	Allocasuarina huegeliana scattered low trees to low open woodland over			approximately 450 m ENE	1	1 1	
					Dryandra sessilis var. sessilis, Kunzea praestans, Xanthorrhoea			from the entry to	1	1 1	
				and outcrop), 50-60% cover. Fire age: >	drummondii scattered tall shrubs over Hibbertia subvaginata shrubland			Goonderoo farm from the	.I	1 1	
49770	Bossiaea moylei	2		15 to 20 years.	to open heath over Neurachne alopecuroidea, Austr			Midlands Road.	GPS		21/10/2000
40773	Bossided Illoylei	- 2		15 to 20 years.	to open heath over Nedrachine alopecuroidea, Austr			iviidialius koad.	GF3	-	21/10/2000
								Site No. WOR001. About		1 1	
								15 km north of Moora.			
							Gridlines along	The western most ridge of		1 1	
							north and south	the mine area. The site is		1 1	
				Crest of north-south orientated low ridge.	Regelia megacephala open scrub over Hibbertia subvaginata low		plot boundaries,	approximately 500 m ENE			
				To west, moderate-steep slope. To east,	shrubland to open heath. Acacia congesta subsp. congesta, Acacia		some disturbance.	of the entry to Goonderoo	,		
				gentle slope. Near the hight point of the	stenoptera, Amphipogon sp., Austrodanthonia setacea, Bossiaea		Other earthworks	farm from the Midlands			
48779	Bossiaea moylei	2		ridge. Light grey fine silty sand.	eriocarpa ssp. Cairn Hill (M. Henson 2-28), Briza maxima, Burchar		south side.	Road	GPS	1	21/10/2000
								Site WOR006-6, ca 15 km			
								N of Moora. The		1 1	
								westernmost ridge of the			
				Gentle mid-slope on E side of ridge, close				mine. This site is towards			
				to cleared area. Gravelly, pebbley grey- brown (some humus) silt/fine sand	Allocasuarina huegeliana scattered low tree to low open woodland over			the southern end of the ridge, ca 500 m ENE of the			
					Dryandra sessilis var. sessilis, Xanthorrhoea drummondii scattered tall shrubs over Kunzea praestands high open shrubland to high shrubland			entry to Goonderoo farm			
40770	Bossiaea moylei	2	Woody shrub, divaricate branching.	litter layer. Burnt > 10-15 years ago.	over Hibbertia subvaginata open heath over D				GPS		22/10/2000
48779	Bossidea moyiei	- 2	woody strub, divaricate branching.	litter layer. Burnt > 10-15 years ago.	over hibbertia subvaginata open neath over b			from the iviidiands Road	GPS	- 1	22/10/2000
								Site No. CAH002. Cairn Hill	i l		
								Westrail Reserve,			
								approximately 11 km		1 1	
								north of Moora on the	1	1 1	
						Locally moderately		Midlands Road. The plot is	4	1 1	
				I		common, but		on the slope to the N side	1	1 1	
								of the track from the		1 1	
					Eucalyptus eudesmioides subsp. eudesmioides scattered low trees over	geographically				1 1	
				South-facing moderate slope below crest	Eucalyptus eudesmioides subsp. eudesmioides scattered low trees over Regelia megacephala open to closed scrub over Kunzea praestans and	geographically restricted and		gravel pits to the radio			
				of hill. Dark grey silty loam. Good litter	Regelia megacephala open to closed scrub over Kunzea praestans and Melaleuca calyptroides shrubland over Xanthosia fruticulosa open low	geographically restricted and therefore reasonably		gravel pits to the radio tower, approx. 500 m east			
48779	Bossiaea maylei	2	Shrub to 1 m tall. Differs from Bossiaea eriocarpa in that leaves are hirsute.	of hill. Dark grey silty loam. Good litter	Regelia megacephala open to closed scrub over Kunzea praestans and	geographically restricted and		gravel pits to the radio tower, approx. 500 m east	GPS	1	22/10/2000
48779	Bossiaea moylei	2	Shrub to 1 m tall. Differs from Bossiaea eriocarpa in that leaves are hirsute.	of hill. Dark grey silty loam. Good litter	Regelia megacephala open to closed scrub over Kunzea praestans and Melaleuca calyptroides shrubland over Xanthosia fruticulosa open low	geographically restricted and therefore reasonably		gravel pits to the radio tower, approx. 500 m east of the Midlands Road		1	22/10/2000
48779	Bossiaea moylei	2	Shrub to 1 m tall. Differs from Bossiaea eriocarpa in that leaves are hirsute.	of hill. Dark grey silty loam. Good litter	Regelia megacephala open to closed scrub over Kunzea praestans and Melaleuca calyptroides shrubland over Xanthosia fruticulosa open low	geographically restricted and therefore reasonably		gravel pits to the radio tower, approx. 500 m east of the Midlands Road Site WOR006, ca 15 km N		1	22/10/2000
48779	Bossiaea moylei	2	Shrub to 1 m tall. Differs from Bossiaea eriocarpa in that leaves are hirsute.	of hill. Dark grey silty loam. Good litter	Regelia megacephala open to closed scrub over Kunzea praestans and Melaleuca calyptroides shrubland over Xanthosia fruticulosa open low	geographically restricted and therefore reasonably		gravel pits to the radio tower, approx. 500 m east of the Midlands Road Site WOR006, ca 15 km N of Moora. The		1	22/10/2000
48779	Bossiaea moylei	2	Shrub to 1 m tall. Differs from Bossiaea eriocarpa in that leaves are hirsute.	of hill. Dark grey slity loam. Good litter layer.	Regelia megacephala open to closed scrub over Kunzea praestans and Melaleuca calyptroides shrubland over Xanthosia fruticulosa open low	geographically restricted and therefore reasonably		gravel pits to the radio tower, approx. 500 m east of the Midlands Road Site WOR006, ca 15 km N of Moora. The westernmost ridge of the		1	22/10/2000
48779	Bossiaea maylei	2	Shrub to 1 m tall. Differs from Bossiaea eriocarpa in that leaves are hirsute.	of hill. Dark grey slity loam. Good litter layer. Gentle mid-slope on E side of ridge, close	Regella megacephala open to closed scrub over Kunzea praestans and Melaleucca olypticides strubland over Annthosia fruitculciosa open low shrubland over Desmocladus flexuosus open sedgela	geographically restricted and therefore reasonably		gravel pits to the radio tower, approx. 500 m east of the Midlands Road Site WOR006, ca 15 km N of Moora. The westernmost ridge of the mine. This site is towards		1	22/10/2000
48779	Bossiaea maylei	2	Shrub to 1 m tall. Differs from Bossiaea eriocarpa in that leaves are hirsute.	of hill. Dark grey silty loam. Good litter layer. Gentle mid-slope on E side of ridge, close to cleared area. Gravelly, pebbley grey-	Regella megacophalo open to closed scrub over Kunzea praestans and wheleuca calypticides shrubland over Aanthosia fruitociosa open low strubland over Desmocladus fleruosus open sedgela Allocassuarina huegellana scattered low tree to low open woodland over	geographically restricted and therefore reasonably		gravel pits to the radio tower, approx. 500 m east of the Midlands Road Site WOR006, ca 15 km N of Moora. The westernmost ridge of the mine. This site is towards the southern end of the	GPS	1	22/10/2000
48779	Bassioea moylei	2	Skrub to 1 m tall. Differs from Bossiaea eriocarpa in that leaves are hirsute.	of hill. Dark grey silty loam. Good litter layer. Gentle mid-slope on E side of ridge, close to cleared area. Gravelly, pebbley grey- brown (some humus) silt/fine sand	Regella megacephalo open to closed scrub over Kurae a praestans and Melaleuca olaybrides strubland over Annthosia fruituolosa open low shrubland over Desmocladus flexuosus open sedgela Allocasuarina huegeliana scattered low tree to low open woodland over Dryandra sessilis var. sessilis, Xanthorrhoea drummondis scattered tall	geographically restricted and therefore reasonably		gravel pits to the radio tower, approx. 500 m east of the Midlands Road Site WOR006, ca 15 km N of Moora. The westernmost ridge of the mine. This site is towards the southern end of the ridge, ca 500 m ENE of the	GPS	1	22/10/2000
			Shrub to 1 m tall. Differs from Bossiaea eriocarpa in that leaves are hirsute.	of hill. Dark grey silty loam. Good litter layer. Gentle mid-slope on E side of ridge, close to cleared area. Gravelly, pebbley grey- brown (some humus) silt/line sand between cobbles and boulders. Has a thin	Regella megacophalo open to closed scrub over Kunzea praestans and wheleuca calypticeds strubland over Anthosia fruitociosa open low strubland over Desmocladus fleruosus open sedgela Allocasuarina huggellana scattered low tree to low open woodland over Dryandra sessills var. sessills, Kanthorrhoea drummondis cattered flab strubs over Kunzea preastands high open strublands to high shrubland	geographically restricted and therefore reasonably		gravel pits to the radio tower, approx. 500 m east of the Midlands Road Site WOROOS, ca 15 km N of Moora. The westernmost ridge of the mine. This site is towards the southern end of the ridge, ca 500 m ENE of the entry to Goonderoo farm	GPS	1	
	Bossiaea moylei Bossiaea moylei	2	Skrub to 1 m tall. Differs from Bossiaea eriocarpa in that leaves are hirsute.	of hill. Dark grey silty loam. Good litter layer. Gentle mid-slope on E side of ridge, close to cleared area. Gravelly, pebbley grey- brown (some humus) silt/fine sand	Regella megacephalo open to closed scrub over Kurae a praestans and Melaleuca olaybrides strubland over Annthosia fruituolosa open low shrubland over Desmocladus flexuosus open sedgela Allocasuarina huegeliana scattered low tree to low open woodland over Dryandra sessilis var. sessilis, Xanthorrhoea drummondis scattered tall	geographically restricted and therefore reasonably		gravel pits to the radio tower, approx. 500 m east of the Midlands Road Site WOR006, ca 15 km N of Moora. The westernmost ridge of the mine. This site is towards the southern end of the ridge, ca 500 m ENE of the	GPS	1	22/10/2000
			Shrub to 1 m tall. Differs from Bossiaea eriocarpa in that leaves are hirsute.	of hill. Dark grey silty loam. Good litter layer. Gentle mid-slope on E side of ridge, close to cleared area. Gravelly, pebbley grey- brown (some humus) silt/line sand between cobbles and boulders. Has a thin	Regella megacophalo open to closed scrub over Kunzea praestans and wheleuca calypticeds strubland over Anthosia fruitociosa open low strubland over Desmocladus fleruosus open sedgela Allocasuarina huggellana scattered low tree to low open woodland over Dryandra sessills var. sessills, Kanthorrhoea drummondis cattered flab strubs over Kunzea preastands high open strublands to high shrubland	geographically restricted and therefore reasonably		gravel pits to the radio tower, approx. 500 m east of the Midlands Road Site WOR006, ca 15 km N of Moora. The westernmost ridge of the westernmost ridge of the mine. This site is towards the southern end of the ridge, ca 500 m ENE of the entry to Goonderoo farm from the Midlands Road	GPS	1	
			Skrub to 1 m tall. Differs from Bossiaea eriocarpa in that leaves are hirsute.	of hill. Dark grey silty loam. Good litter layer. Gentle mid-slope on E side of ridge, close to cleared area. Gravelly, pebbley grey- brown (some humus) silt/line sand between cobbles and boulders. Has a thin	Regella megacophalo open to closed scrub over Kunzea praestans and wheleuca calypticeds strubland over Anthosia fruitociosa open low strubland over Desmocladus fleruosus open sedgela Allocasuarina huggellana scattered low tree to low open woodland over Dryandra sessills var. sessills, Kanthorrhoea drummondis cattered flab strubs over Kunzea preastands high open strublands to high shrubland	geographically restricted and therefore reasonably		gravel pits to the radio tower, approx. 500 m east of the Midlands Road Site WOROOS, ca 15 km N of Moora. The westernmost ridge of the mine. This site is towards the southern end of the ridge, ca 500 m ENE of the entry to Goonderoo farm	GPS GPS	1	
			Shrub to 1 m tall. Differs from Bossiaea eriocarpa in that leaves are hirsute.	of hill. Dark grey silty loam. Good litter layer. Gentle mid-slope on E side of ridge, close to cleared area. Gravelly, pebbley grey- brown (some humus) silt/line sand between cobbles and boulders. Has a thin	Regelia megacophalo open to closed scrub over Kunzea praestans and Melaleuca allypriodes shrubland over Annthosia fruitocilosia open low shrubland over Desmocladus flexuosus open sedgela Allocasuarina huggeliana scattered low tree to low open woodland over Dryandra sessills var. sessilis, Santhormoea drummondi scattered talvatus over Kunzea preastands high open shrubland to high shrubland over Hibbertia subvaginata open heath over D	geographically restricted and therefore reasonably		gravel pits to the radio tower, approx. 50m east of the Midlands Road Site W.0R006, ca 15 km N of Moora. The westernmost ridge of the mine. This site is towards the southern end of the ridge, ca 500 m ENE of the entry to Goonderoo farm from the Midlands Road Site 195. Property of G. Jöyce, N of Barberton East	GPS GPS	1	
			Skrub to 1 m tall. Differs from Bossiaea eriocarpa in that leaves are hirsute.	of hill. Dark grey silty loam. Good litter layer. Gentle mid-slope on E side of ridge, close to cleared area. Gravelly, pebbley grey- brown (some humus) silt/line sand between cobbles and boulders. Has a thin	Regella megacophalo open to closed scrub over Kunzea praestans and wheleuca calypticeds strubland over Anthosia fruitociosa open low strubland over Desmocladus fleruosus open sedgela Allocasuarina huggellana scattered low tree to low open woodland over Dryandra sessills var. sessills, Kanthorrhoea drummondis cattered flab strubs over Kunzea preastands high open strublands to high shrubland	geographically restricted and therefore reasonably		gravel pits to the radio tower, approx. 500 m east of the Midlands Road Site WOR006, ca 15 km N of Moora. The westernmost ridge of the mine. This site is towards the southern end of the ridge, ca 500 m ENE of the entry to Goonderoo farm from the Midlands Road Site 195. Property of G.	GPS GPS	1	

							Some in fresh	0.6 km N of Bulbarnet			
							flower, some	Road on a track running			
								through Bulbarnet Nature			
18039	Caladenia dundasiae	1		Slope from a lateritic ridge, Brown Joam,	Upslope open Eucalyptus wandoo woodland.	c. 25 flowering plants.		Reserve	GPS	1	17/08/2017
								100 m S of the			, ,
								intersection of Wirrilda			
								Road and Wass Road,			
5396	Calothamnus accedens	4	Bushy shrub to 1 m tall.	Brown loam.	Weedy open low scrub.	6		eastern road verge	GPS	1	07/10/2004
								Junction of Wirrilda Road			
								and Wass Road, S of			
5396	Calothamnus accedens	4	Bushy shrub ca 1 m tall; stamens red.	In granitic loam, on road verge.				Moora	MAN	0	09/08/1993
								Remnant bushland			
								surrounded by farmland			
								on S side of Bulbarnet			
								Road, c. 5 km E of the			
								Bindoon-Moora Road.			
								Access is through farm			
								property. Quadrat site 3 is			
								located in the SE section			
				Flat top of breakaway, lateritic gravel	Dense shrubland 1-2 m tall with occasional Allocasuarina campestris		Specimen	of the remnant, 750 m S			
	Calothamnus			over red brown loam on surface and at	above, with diverse extensive herb and grass layer below. Site is		collected outside	of the dam on the W side			
5421	pachystachyus	4	Dense shrub, 2 m tall with long hirsute leaves, flowers faded.	depth, well drained.	inaccessible and its condition is pristine.	occasional.	quadrat.	of the track and at th	GPS	1	03/11/2005
	Calytrix ecalycata subsp.				Open scrub to 2 m, Hakea sp., Daviesia sp., Calothamnus sp.,						
19980	brevis	3	Upright shrub 0.5 m, flowers lemon yellow.	Flat, pale yellow sand.	Actinostrobus sp.	uncommon.		Warro Road	MAN	3	12/09/1993
								Roadverge, Barberton			
								West Road, SW of Moora			
	Calytrix ecalycata subsp.							AMG 50JMM012008 (Lake			
19977	pubescens	1	Shrub 60 cm.	Brown loamy clay, upper slope.	Forest with Eucalyptus wandoo.			Dalaroo 1:50,000 sheet)	MAN	0	29/09/1988
	Calytrix ecalycata subsp.							Road verge, Barberton			
19977	pubescens	1	Shrub to 1.5 m tall.	Brown loam.				West Road, SW of Moora	GPS	1	28/09/2007
								2.3 km N of Gillingarra			
								school on W side of Bindoon - Moora Road.			
	Conospermum densiflorum							between rail and road			
14000	subsp. unicephalatum	т	Sprawling shrub 30 cm tall x 80 cm wide with upright flower stalk. Dirty white flowers. Very hairy leaves.	Flat. Gravelly brown clay over laterite.	Heathland. Associated species: Dryandra spp., Allocasuarina, Melaleuca sp., weeds, grasses, Ptilotus.	150+ plants.		reserve,	GPS	,	12/12/2000
14000	sausp. unicephalatum		writte nowers. Very ridity reaves.	riat. Gravery brown clay over laterite.	sp., weeus, grasses, Friiotus.	130+ plailts.		3.8 km N of Gillingarra	GF3	-	12/12/2000
								school on W side of			
								Bindoon - Moora Road.			
	Conospermum densiflorum		Sprawling shrub 30 cm tall x 80 cm wide with upright flower stalk. Dirty		Heathland. Associated species: Dryandra spp., Allocasuarina, Melaleuca			between rail and road			
	subsp. unicephalatum	т	white flowers. Very hairy leaves.	Flat. Gravelly brown clay over laterite.	sp., weeds, grasses, Ptilotus.	60+ plants.		reserve,	GPS	1	12/12/2000
							Opportunistic				
							survey. South side				
							of road. ? x L10.	Bulbarnet Road from			
							Narrow road	Bindoon - Moora Road, 20			
5504	Darwinia acerosa	T	Dwarf shrub to 500 mm high and 1000 mm high. Full flowers - green.	Slope and dry soil.		more than 3 plants.	verge.	km S of Moora 5.3 km E of Midlands	MAN	3	23/08/1995
								Highway on Bulbarnett Road, plants on N and S			
					With Acacia sp., Eucalyptus spp., Allocasuarina sp., Glyschrocaryon sp.,			road verge (mainly S			
5504	Darwinia acerosa	т	Dome-shaped shrub to 30 cm. Leaves bright green.	Orange-brown clay loam over granite.	weeds and grasses.			verge)	GPS	1	22/11/1995
3304				ago srown cuty tourn over grante.	O O			0-/	21.5	1	
								Remnant bushland			
								surrounded by farmland			
								on S side of Bulbarnet			
								Road, c. 5 km E of the			
								Bindoon-Moora Road.			
								Access is through farm			
							L	property. Quadrat site 3 is			
				L			Site is	located in the SE section			
	Daviesia debilior subsp.			Flat top of breakaway, lateritic gravel over red brown loam on surface and at	Dense shrubland 1-2 m tall with occasional Allocasuarina campestris		inacccessible and its condition is	of the remnant, 750 m S of the dam on the W side			
11003	sinuans	3	Rambling prickly leafless shrub with triangular shaped fruits.	depth, well drained.	above, with diverse extensive herb and grass layer below.		pristine.		GPS		03/11/2005
11303	siriuuris	3	namoning prickly realiess stirub with triangular shaped mults.	uepui, well drained.	above, with diverse extensive herb and grass layer below.		prisane.	or one track and at th	UPS	1	03/11/2005

NameID	Taxon	Cons Code	Plant Desc	Site	Vegetation	Frequency	Notes	Locality	Geo Meth	Precision	Date
						,					
				Landform: hill-steep (upperslope-upland).							
				Soil surface: sand. Soil colour: grey. Soil							
				type: sand over chert. Underlying				Cairn Hill, 10 km N of			
3806	Daviesia dielsii	T		geology: Moora group of Protozoic rocks.	Heath. Characteristic sp.: Regelia megacephala.			Moora	GPS	1	27/09/2000
			Many stemmed shrub to 1 m, standard deep red turning orange with red								
			margins outside; inside orange with red eye turning golden; keel and wings								
3806	Daviesia dielsii	T	deep red.	On rocky (chert) hill.	In tall shrubland of Casuarina, Dryandra sessilis, Kunzea.			Cairn Hill, N of Moora Porter's Farm, 6.3 miles	MAN	0	13/08/1993
			Diffuse shrub c. 1 m high. Flowers with dark red keel and dark orange					(10 km) N of Moora on			
3806	Daviesia dielsii	т	standard having a dark red base.		In dense Casuarina-Acacia multispicata scrub.			Geraldton Highway	MAN	3	/08/1973
3000	Daviesia diessii		Open shrub 120 cm high x 120 cm wide. Rough grey bark. Deep, tight	Hill, gravelly, stony, bare, brown clay over				Gravel pit, c. 10-15 km N	IVIPUS		100/15/5
3806	Daviesia dielsii	т	barked tap root.	dolerite.	Woodland, (Muirs, LAi,LBr,KTi,Sc,SA,SBc,Sci,SDi,GTi,VT,Xr.)	occasional.		of Moora	GPS	1	25/02/1997
								Site No. WDM002. About			
								15 km north of Moora.			
								This area is a proposed			
								wastedump extension to			
								the south of the mine.			
				1			Fairly open section		1 1		
					Allocasuarina huegeliana low woodland over Allocasuarina campestris		of sheoak low	m east of the entry to			
					shrubland over Schoenus clandestinus, Borya sphaerocephala/Austrostipa		woodland, several	Goonderoo farm from the			
					tenuifolia, Austrodanthonia acerosa open sedge/grassland. Allocasuarina		dead sheoak	Midlands Road and 200 m	1		
3806	Daviesia dielsii	T		(quartz) sandy clay.	campestris, Allocasuarina huegeliana, Austr		trunks in area.	north of the farm track	GPS	1	22/10/2000
				1			This area has been		1		
								Prices Road, 5 km S from			
							following road	Coomberdale West Road,			
2000	Daviesia dielsii	т	Low, untidy shrub 30 cm high x 60 cm wide. Flowering.	Plain, dry brown laterite.	Cleared	rare.	alignment. Weedy.		GPS	1	07/08/1997
3800	Daviesia aleisii	- '-	Low, unday strub 30 cm nigh x 60 cm wide. Flowering.	Plain, dry brown laterite.	Cleared.	rate.	alignment, weedy.	NW OI WOOTA	urs	1	07/08/1997
				NW facing slope. Grey clayey loam and	Tall shrubland with Melaleuca radula, Kunzea praetans, Calothamnus	2 mature plants over		Ca 8 km NNE of Moora, N			
3806	Daviesia dielsii	т		Noondine chert.	quadrifidus, C. and Hibbertia spp.	5 x 5 m area.		side of Dalaroo East Road	MAN	0	30/11/1999
							Immature-adult	Cairn Hill Reserve, turning			
							population.	S of fork in the track, drive			
							Percentage of	600 m to E edge of gravel			
				Breakaway hillside. White-brown clay-	Gravel pit revegetation. Tall shrubland. Banksia sp., Calytrix sp., Acacia		population fruiting	pit, walk another 200 m E,	.		
3806	Daviesia dielsii	T	Erect, open, 0.6 m high x 0.4 m wide. Not flowering.	rock.	sp., Allocasuarina sp., Acacia aristata.	over 50 plants.	40%.	Moora	GPS	1	24/09/2008
							Adult population.	Cairn Hill Reserve, gravel			
							Percentage of	pit, from Midlands Road			
				Breakaway, hillside. White-brown, rocky.	Tall shrubland. Banksia sp., Acacia sp., Allocasuarina sp., Melaleuca sp.,		population fruitin	drive in 500 m turn S and			
3806	Daviesia dielsii	T	Erect, open shrub 0.9 m high x 0.7 m wide. Not flowering.	Cairn Hill.	Acacia aristulata, Calytrix sp.	2-5 plants.	100%.	on E side of pit	GPS	0	24/09/2008
2000	Daviesia dielsii	т	Format annual administration of the contract o	Bad alarm and	Open scrub to shrubland.	f		11 km N of Moora along Midlands road	MAN		40 (40 (400
3806	Daviesia aleisii	- 1	Erect compact shrub 70 cm high, in fruit.	Red clayey sand.	Open scrub to snrubland.	frequent.		E of railway line, 11.5 km	MAN	0	16/10/1991
				Upland, well drained: shallow brown	Dense Heath A over Low Scrub C over Open Herbs (Scheme of Muir			at 10degrees from centre			
3806	Daviesia dielsii	т	Spreading shrub; 90cm x 180cm diameter.	humic loam: Noondine Chert.	1977); Allocasuarina campestris.	occasional.		of Moora	MAN	1	15/08/1990
2000				issuit, reconstitute circus		Jona.				- 1	23/00/2330
				Flat & hill side. Rocky brown sandy loam.					1 1		
				Growing along track running parallel to					1 1		
				the railway line. Also growing along side	Allocasuarina thicket. Acacia acanthoclada subsp. glaucescens, Acacia sp.,						
3806	Daviesia dielsii	т	Shrub to 1 m.	track to radio tower.	Allocasuarina sp., Dryandra sessilis.	at least 30.	Population 3.	S of the track to Cairn Hill	UNK	2	20/12/2004
								N of Perth, between			
				1				Watheroo and Moore			
15828	Desmocladus elongatus	4		Sandy soil.				River,	AUTO	4	19/09/1958
								Reserve on Midlands			
						common throughout		Road, outskirts of Moora,			
12936	Diuris recurva	4			Tall Eucalypt woodland.	reserve.		E side	GPS	1	09/08/2003
				L	L	colonies of 50-60		Bindoon Moore Road, 80	l		
12936	Diuris recurva	4		Railway reserve.	Heath, introduced grass in scattered wandoo.	plants.		m N of Crystal Brook Road	GPS	1	07/08/2005
				1					1		
				1				E side rail verge, 4.5 km at			
				L	Very Open Tree Mallee over Heath A over Herbs over Low Sedges			5degrees from centre of			
12020	0/			Alluvial area, poorly drained; brown sand				Moora, just S of road to			14/08/1990
12936	Diuris recurva	4		? over clay.	Melaleuca adnata, Lepidodsperma angustata, Neurachne alopecuroides.	rare.		private property 100 m NE Koojan; 18 km S	MAN	1	14/08/1990
17606	Eleocharis keigheryi	т	Rhizomatous herb, 30 cm x 50 cm. Inflorescence green.	Claypan with brown mud.	Amphibromus grassland.	uncommon.		of Moora	UNK	2	04/10/2009

NameID	Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Locality	Geo_Meti	Precision	Date
					L			Private property (Kardella	1		
20242	Eremaea sp. Cairn Hill (B. Morgan 532)	2	5	Shallow valley, dry white sand over laterite.		1 -1		Kewarra), near Caim Hill, c. 11 km NNE of Moora	GPS	1	45 (44 (201)
28242	Morgan 532)	2	Erect shrub 1.5 m high and 0.8 m wide. Flowers orange.	laterite.	xantnorrnoea drummondii.	1 plant seen.		C. 11 KM NNE OT MOORA Cairn Hill area, c. 1 km E	GPS	1	15/11/201
								of the Midlands Road			15/11/20 22/09/20 12/12/20 19/10/19 05/09/19 15/10/19 03/12/19 03/12/19 22/08/19
								from c. 11.5 km N of			
	Eremaea sp. Cairn Hill (B.			Aspect S; hills, small valley between two	Semi-cleared tall shrubland, long-unburned with Allocasuarina			Moora; on semi cleared			
28242	Morgan 532)	2	Shrub, old and collapsed (partly), 1.8 m tall. Bark grey, stringy.	low ridges; stony (quartzite) grey sand.	campestris, Kunzea, Xanthorrhoea, Hakea and exotic annual grasses.	rare, 1 plant.		farm	GPS	1	22/09/201
								ca 15 km N of Moora,			
					Banksia priopotes (few). Acacia acuminata subsp. acuminata scattered			adjacent to the SE corner			
				Very gently, S facing slope of gully floor	Banksia prionotes, Kunzea praestans, Calothamnus quadrifidus, Xamthorrhoea drummondil. semi-cleared tall shrubland, long-unburned with Allocasuarina competris, Kunzea, Parthorrhoea, Hakea and exotic annual grasses. anksia prionotes (few), Acacia acuminata subsp. acuminata scattered tow trees over Dypnirds assilist var. results scattered tall shrubs to high elice on strubland over Xanthorrhoea drummondil, Allocasuarina campestris, Calothamnus aff. quadrifidus Moora-Wa 2 plants pr cattered p Under Eucalyptus/Acacia low woodland.			of the CALM Cairn Hill			
	Eremaea sp. Cairn Hill (B.			between low ridges. Pale grey sand. Fire				Rserve on the property of			
28242	Morgan 532)	2	Shrub 2 to 2.3 m.	age > 10 years.	campestris, Calothamnus aff. quadrifidus Moora-Wa	2 plants present.		P. & J. Gardiner	GPS	1	12/12/200
	Eremophila qlabra subsp.		Shrub 0.5 x 3 m. Leaves imbricate, erect; corolla green. Tallest plant in			2 plants. Few scattered plenty on		14.9 km S of Moora.			
17150	Eremopniia giabra subsp. chlorella	т	Shrub 0.5 x 3 m. Leaves imbricate, erect; corolla green. Tallest plant in population 0.8 m.	On roadside.	Under Fucalentus/Acacia low woodland			Austin Botanical District	GPS	1	19/10/199
1/130	Eremophila qlabra subsp.	-	population 0.6 m.	Oil loadside.	Orider Editalyptus/Acatia low woodiand.	roausiue.		Austin Botanical District	urs	- 1	15/10/155
17150	chlorella	т	Bush 1 m. Flowers green.	Disturbed area.		uncommon.		4 miles W of Moora	AUTO	3	05/09/198
								E side of highway, 10 km S			
			Flowers mauve pinkish, rather than blue, 2/3 m and spindly, climbing					of Drummond Street,	I		
7266	Eremophila scaberula	Т	through bush. Rather twiggy in upper parts, only 1/3 m spread.	Laterite soil.		-		Moora,	MAN	0	15/10/1994
								9.8 km S of Moora along			
					Open woodland over low shrubs and grasses. With Eucalyntus			Bindoon - Moora road,	1		
								opposite Ranfurly, E and			
7266	Eremophila scaberula	т		Flat, brown loam-clay. Inundated.	Scaevola spinescens, Melaleuca.			W side of road,	GPS	1	31/07/1996
								Ca 21 km S of Drummond			
								Street, (Moora township) on Moora-Mogumber			
								Road, East Road reserve			
							Abundance:	between road and railway			
7266	Eremophila scaberula	т	Prostrate 20 cm high x 2 m wide.	Plain. Red/brown clay.	Salmon gum woodland.		occasional.	line	MAN	0	03/12/1997
								5.1 km S of Drummond Street, Moora, road verge			
7266	Eremophila scaberula	т	Low prostrate shrub 0.3 m tall, 1 m wide; flowers blue.					on Midlands Road	MAN	0	15/10/199/
7200	Eremophila seascraid		A low growing, almost procumbent heath-like shrub, the branches with					On Wildianas Road	IVIPAL	Ü	13/10/1334
			raised decurrent lines from each leaf-stalk and along with the foliage						Description Description		
			scaberulous and scarcely viscid. Leaves rather crowded, spreading or	Growing in clay or rich loam in flat							
7266	Eremophila scaberula	Т	incurved, linear or almost subulate, obtuse,	country.				Moora	MAN	3	/10/1903
							Ahundance:				
							occasional. Up to				
							80 plants. Occur in				
							area c. 700 m x				
							100 m. Fence line	1	1		
							to fence line	10 km S of Moora on	1		
			Low compact to sprawling shrubs 300 cm high up to 1500 cm. Purple				(inclusive of Mogumber road	Moora - Mogumber road, both side of road and E	1		
7266	Eremophila scaberula	т	flowers. Appears in full flower.	Plain, moist brown sandy clay.	Low Scrub B with Open Woodland.		and railway line).	side of railway line	GPS	1	22/08/1995
									0.0		
							Abundance:	1	1		
							occasional. Up to	1	1		
							80 plants. Occur in	1	1		
							area c. 700 m x 100 m. Fence line	1	1		
							to fence line	10 km S of Moora on			
							(inclusive of	Moora - Mogumber road,	1		
			Low compact to sprawling shrubs 300 cm high up to 1500 cm. Purple				Mogumber road	both side of road and E			
7266	Eremophila scaberula	Т	flowers. Appears in full flower.	Plain, moist brown sandy clay.	Low Scrub B with Open Woodland.		and railway line).	side of railway line	GPS	1	22/08/1995
								20.8 km S of Drummond Road, S of Moora, railway	1		
								reserve between the	1		
								Midlands Road and the	1		
								railway line and in	1		
				L	Low forest A, low shrub B with Eucalyptus salmonophloia, Eucalyptus			between line and adjacent			
7266	Eremophila scaberula	T	Heath-like shrub <1 m high x ca 1 m wide. Purple flowers.	Low flat plain. Dry lateritic brown loam.	wandoo.			property	GPS	1	26/11/1996

							Abundance: 90				
1							plants. Small				
1 1							population	1			
1 1							occurring when	1			
1 1							density of	1			
1 1							vegetation	1			
1 1							increases.	1			
1 1					Low scrub B under Open Woodland with Acacia lineolata, A. erinacea, A.		Occurring both	1			
1 1					hemiteles, A. bidentata, Melaleuca adnata, Grevillea, Chenopods. Weedy		sides of railway	5.1 km S Moora-			
7266	Eremophila scaberula	т	Low sprawling shrub 400 cm high, up to 1.2 m wide. Full flower.	Plain. Moist brown clay.	species: wild oats, Guildford grass and Briza sp.		line.	Mogumber Road	GPS	1	22/08/199
1200									0.0		
1 1								9.1-10.4 km S of Moora on	l		
1 1							Abundance: 132	Moora-Mogumber Road,			
7266	Eremophila scaberula	т	Rounded shrub to 1.5 m.	Low plain. Brown loam over laterite.	Low woodland with Eucalyptus salmonophloia, low scrub, grasses.		nlants		GPS	1	12/12/1996
1200							p.a		0.0		,,
1 1			Most plants 1/4 m high x 1 m spreading, but one grew taller to 2/3 m and				Abundance: only 7	5.1 km S of Drummond			
1 1				On both side of highway, with a few				Street, Moora. Between		1 1	
7266	Eremophila scaberula	т	to 2/3 m. The flowers of this one were more mauve-pinkish than blue.	plants across railway line at one point.			site.		MAN	2	15/10/1994
7200	Eremophila scaperala		to 2/3 m. The nowers of this one were more mode phikish than blue.	plants across tallway line at one point.			Jite.	ingilway and railway inic,	IVIDAG	-	13/10/1334
								20.8 km S of Moora on		1 1	
							Abundance: 200	Moora-Mogumber Road,		1 1	
7255	Eremophila scaberula	т	Rounded shrub to 1.5 m.	Low plain. Brown loam over laterite.	Low woodland with Eucalyptus salmonophloia, low scrub, grasses.			both sides of railway line	GPS	1	12/12/1996
7200	Eremopiliu scuperuid	-	nounace amos to 1.3 III.	Low plant brown toam over laterite.	cow woodana with cucaryptus sannonopinola, low sci db, grasses.			Bindoon - Moora Road, ca	urs	+ +	12/12/1990
1								21 km S of Moora, eastern	I	1	
77.00	Eremophila scaberula	т		Plain. Brown loam.	Eucalypt woodland with open shrubland to 1.5 m.	50+ plants.		side of road	GPS		27/11/2007
/266	Eremopniia scaberula			Plain, Brown Ioam. Plain, Winter wet in areas, Brown clavev	Eucalypt woodland with open shrubland to 1.5 m.	50+ plants.		Midlands Road, ca 21 km S		1	2//11/200/
										1 .	
/266	Eremophila scaberula	T	Low-radial shrub. 40 cm high x 1.0 m wide. Bright pale purple flowers.	sand.	Open woodland.		frequent.	of Moora	GPS	1	03/10/1996
1 1											
1 1								S of Moora at 400 m S of			
1 1					Open low woodland of Eucalyptus salmonophloia, E. wandoo, E.			entrance to Runfurley			
1		_			loxophleba with open low scrub to 1 & 2 m assoc. with Acacia sp.,			property on E side of		1	
7266	Eremophila scaberula	T		Flat, yellow brown sandy loam.	Scaevola spinescens.		fruit.	Moora- Mogumber Road	GPS	1	27/10/1994
1					Tall Eucalyptus woodland over scattered Acacia shrubs over mixed	common in small		1			
7266	Eremophila scaberula	Т	Low shrub, 30 cm high x 40 cm wide. Flowers purple.	Plain. Light brown loamy soils.	grasses.	area.		Moora townsite	GPS	1	22/09/2016
1 1											
1 1								3.2 km SE of Badgingarra -			
1 1								Moora road on			
1 1								Dandaragan road [Ca 8 km			
13093	Eucalyptus absita	T			Coppice.			WNW of Moora]	MAN	3	10/06/1986
1 1								1			
1 1								3.2 km SE of Badgingarra -		1 1	
1 1								Moora road on		1 1	
1 1			Mallee 3 m tall with light yellowish grey-brown rough bark to 1 m, grey over					Dandaragan road [Ca 8 km			
13093	Eucalyptus absita	T	greenish smooth above.					WNW of Moora]	MAN	3	10/06/1986
1 1								Near Moora (Barberton		1 1	
16944	Eucalyptus x camabyi	4	10 ft high. Highly decorative red flower, old flower all dark salmon red.				scarce.	district)	MAN	4 /0	/03/1937
								1		1 1	
1								Babberton East Road, 2.2		1	
	Gastrolobium			Towards top of hill. Dry, brown-red				km E from junction of		1	
3922	rotundifolium	3	Compact shrub 0.6 m high x 1.2 m wide.	ironstone gravel. Shire road verge.	Muirs - open woodland. Eucalyptus wandoo.	ca 54 plants.		Bindoon Moora Road	GPS	1	21/01/2006
$\Gamma = T$											
()								Babberton East Road, ca		1 1	
()								2.1 km E of the Bindoon -		1 1	
	Gastrolobium			Brown gravelly loam. E-facing slope near				Moora Road (Pop B. Todd		1 1	
3922	rotundifolium	3	Compact shrub 80 cm tall x 1.8 m wide.	top of hill.	Open woodland on road verge. With Eucalyptus wandoo.	at least 50 plants.		011) (S of Moora)	GPS	1	13/11/2007
								Site No. Simcoa, Moora.			
1								Chert ridge ca 15 km N of		1	
7491	Goodenia arthrotricha	T						Moora	MAN	3 /	/11/2000
\Box								Site CHN,RFS. Chert ridge			
								(CHN) ca 15 km N of		1 1	
t I		т						Moora	GPS		26/11/2000
7491	Goodenia arthrotricha							8 miles W of Moora	MAN	3	01/09/1965
	Goodenia arthrotricha Grevillea saccata		2'.	Yellow sand.		1					
			z.	Yellow sand.				Road verge at 5.8 km on			
			2'.	Yellow sand.							
			2'.	Yellow sand.				Road verge at 5.8 km on			
2087			2.		Heath to 1 m, Calothamnus and Dryandra spp.	1 mature plant.		Road verge at 5.8 km on Boundary Road fom	MAN		29/11/1999
2087	Grevillea saccata	4	2.	Yellow sand. Hilltop. Concretionary gravel.	Heath to 1 m, Calothamnus and Dryandra spp.	1 mature plant.		Road verge at 5.8 km on Boundary Road fom intersection with Koojan	MAN		29/11/1999

NameID	Taxon	Cons_Cod	Plant_Desc	Site	Vegetation	Frequency	Notes	Locality	Geo_Meth Pr	ecision Date
6177	Haloragis platycarpa	ī	Perennial much branched Nerb, 40 cm x 60 cm.	Loamy day.	Open Eucalyptus woodland (W3.1V) over sparse shrubland (W3.0V). Associated species: Euralyptus silmonophiloia, Eucalyptus loxophieba, Erremophila spp. Hyparthenia sp.	c. 1650 plants.	New population: Population 2. Population starts c. 500 m N of Bulbarnet Road and extends for up to 1.4 km N of Bulbarnet (more survey work needed) or alternatively, in rail reserve opposite Koojan Salmon Gum Reserve C. 500 m N of Bulbarnet Road on the Mo	Shire of Moora, C. 20 km S of Moora townsite (Drummond Street) on Moora - Bindoon Road on E road verge and extending to both sides of rail reserve	GPS	1 13/12/20
0177	raunings propo	·		Section of the sectio		C ACC PRINTS	New population: Population 2. Population 2. Population starts c. 500 m N of Bulbarnet Road and extends for up to 1.4 km N of Bulbarnet (more survey work needed) or alternatively, rial reserve opposite Koojan Salmon Gum Reserve c. 500 m	Shire of Moora. C. 20 km S of Moora townsite (Drummond Street) on Moora - Bindoon Road on Eroad verge and		27,27,20
6177	Haloragis platycarpa	т	Perennial much branched herb, 40 cm x 60 cm.	Loamy clay.	Open Eucalyptus woodland (W3.1V) over sparse shrubland (W3.0V) of Eremophila sp., Hakea sp., Grevillea sp.	c. 1650 plants.	N of Bulbarnet Road on the Mo	extending to both sides of rail reserve Rail-line, 50 m E from Bindoon-Moora Road, 1	GPS	1 13/12/20
6177	Haloragis platycarpa	т	Tall herb, multi-branched from base, with red ridged stems and mostly green leaves, red flowers, immature fruit.	Rail reserve, margins of wetland, standing water.	With Avena sp., Cotula sp., Hakea sp., Ptilotus sp., weedy grasses and composites.	occasional.		km N from Koojan West Road, across from old Koojan rail station parking area	GPS	1 15/09/20
6177	Haloragis platycarpa	т	Erect, multistemmed, perennial sub-shrub. 30/40 cm high x 30 cm wide. In flower and fruit.	Claypan. Red-brown cracking clay.	Amphibromus neesii tall grassland.	common around edges of claypan.		100 m NE Koojan, 18 km S of Moora	GPS	1 17/11/20
	•			Claypan - winter damp. Cracking brown	Eucalyptus loxophleba very open woodland with scattered Acacia			100 m E of Koojan Siding;		
	Haloragis platycarpa Haloragis platycarpa	т	Multistemmed perennial herb, 30/40 cm high x 30 cm wide. In flower. Annual herb to 2 m, multi-stemmed branching from base, stems red to green, 4-angled, inflorescence branching, flowers green/white, early fruit.	Rail reserve, margins of wetland, some standing water. Disturbed site.	acuminata. Avena sp. Cotula sp., Hakea sp., Ptilotus sp., weedy grasses and composites.	scattered. occasional. >50% weed infestations over most of site, plants occasion for ca 100 along rails.		18 km S Rail-line, 50 m E from Bindoon-Moora Road, 1 km N from Koojan West Road across from old Koojan railstation parking area	GPS GPS	1 04/10/20
6835	Hemiandra gardneri	Т			Low open woodland, heath. Banksia prinotes, Adenanthos cygnorum,			Moora district. AMG 50JLL957960 (Capitella 1:50,000 sheet), roadverge Barbeton West	MAN	4 /09/1972
	Hemigenia curvifolia	2	Shrub 70 cm.	Yellow sand, yellow upper slope.	Banksia leptophylla, Leptospermum oligandrum, Mesomelaena stygia.			Road, W of Moora	MAN	4 02/10/19
6847	Hemigenia curvifolia	2	Small woody plant, flowers bluish.		On sandheath.			Moora-Badgingarra	MAN	4 23/09/19
	Hemigenia curvifolia Hemigenia curvifolia	2						Moora, N Watheroo Road Moora	MAN MAN	3 10/09/19 3 /09/1947
6847	Hemigenia curvifolia	2	Spiralling [sprawling] shrub 20 cm.	Grey sand/yellow broad upland.	Low open woodland/heath, Euc. todtiana, Melaleuca scabra.			AMG 50JLM864209 (Lake Dalaroo 1:50,000 sheet) farm N of North West Road W of Moora. [Moora Badgingarra Road]	MAN	4 13/09/19

29775 Is	Hibbertia miniata	4					Checked in W.E.			\neg	
29775 Is	libbertia miniata	4									
29775 Is	libbertia miniata	4			l .		Blackall's				
29775 Is	libbertia miniata	4					collecting book.				
29775 Is	libbertia miniata	4					Not recorded.				
29775 Is	Hibbertia miniata	4					M.A. Lewington	Near Mogumber and			
Is							27.11.2015.	Moora	MAN	4 /09/19:	934
Is								Intersection of Capitella			
Is								road and Barberton West			
	sopogon drummondii	3	Erect open pungant shrub 1 m high.	White to grey lateritic sand.	Open scrub over open shrubland.	occasional.		road	MAN	0 15/1	/10/1991
16317 g	sotropis cuneifolia subsp.										
	jlabra	3						Moora	AUTO	3 16/0	/09/1927
6354 L	.eucopogon allittii	3						Moora, N Watheroo Road	AUTO	3 10/0	/09/1971
	Leucopogon tamminensis										
19363 v	var. tamminensis	3	Flowers white; small undershrub 12-18 inches tall.	In sandy soil.				N of Moora	AUTO	3 11/	/12/1945
								8 km W on Wolka road			
								from Cooljarloo road AMG			
								50 JLM382040 Wedge			
33638 N	Meionectes tenuifolia	3	Slender erect annual herb.	Winter wet flats, grey sand over clay.	Dominated by Banksia telmatiaea.	common locally.		Island 1:100,000	TOPO	3 16/1	/10/1990
							The Melaleuca				
							forms quite a				
							dense heath in	ca 2 km E on Dalaroo			
							what is probably a	Road East from the			
							seasonal	Midlands Road. 10 km N			
							dampland at the	of Moora. Avon			
				Sandplain at base of chert ridges. Lower	Largely cleared for agriculture. Grazed Eucalyptus salmonophloia			Wheatbelt Botanical			
5963 N	Melaleuca sclerophylla	3	Shrub to 1.5 m tall. Leaves light green, bark light brown.	lying.	woodland surrounding.		ridges.	District,	MAN	3 20/0	/02/2001
								Remnant bushland			
								surrounded by farmland			
								on S side of Bulbarnet			
								Road, c. 5 km E of the			
								Bindoon-Moora Road.			
								Access is through farm			
								property. Quadrat site 1 is			
				Gently sloping to the north, well drained,				located 150 m from the			
				soil is a pink beige loam with small areas				gate in the SE corner of			
					Dryandra Melaleuca shrubland with occasional small mallees over mixed			the remnant on the W			
5963 A	Melaleuca sclerophylla	3	Shrub <1 m with woody fruit, no flower.	is pink sandy clay.	low shrubs and herbs, in pristine condition.			side of the diagonal track	GPS	1 02/	/11/2005
					Structure (Muir 1977): Low Woodland A/ Low Scrub B/ Dwarf Scrub D;						
				Landform: local rise, Slope - 1; Soil:	Major spp: Eucalyptus wandoo ssp. wandoo, Melaleuca scabra, Daviesia			AMG-Zone 50 410124mE			
5963 A	Melaleuca sclerophylla	3		brown gravelly loam; Drainage: good.	divaricata; long unburnt.			6614575m N; , .	MAN	0 07/1	/11/1990
								Private Property 4.5 km at			
				Upper breakaway slope, moderately	Very Open Shrub Mallee over Open Low Scrub B over Low Heath D			115degrees from junction			
				drained; lateritic gravel, red loamy	(Scheme of Muir 1977); Eucalyptus arachnea, E. aff. flocktoniana,		Abundance: very	of West Koojan Road and			
14726 A	Micromyrtus rogeri	1	Multistemmed shrub; 40cm.	matrix.	Micromyrtis, Melaleuca coronicarpa, M. uncinata.		common.	Midlands Road	MAN	1 13/	/11/1990
					Open woodland associated with Eucalyptus wandoo, Acacia acuminata		Associated with				
				On sheltered dry bark. Plain with bare to		frequent on site and	Ochrolechia sp.	Railway Reserve, 35 km S			
20167 P	Pertusaria trachyspora	2	Thallus crustose K-, C Dormant.	gravelly dry brown sandy clay.	floristic richness of 21-50 species.	occasional in area.	(K+y-o).	of Koojan	GPS	1 03/0	/01/2004
T											
				1	Open woodland associated with Eucalyptus loxophleba, Atriplex palulosa,						
				On sheltered wood in shrub level. Plain	Hakea preissii and Scaevola spinescens. Weeds common, Life form	frequent on site and		Dalaroo Road, N of Moora			
	Pertusaria trachyspora	2	Thallus crustose, dormant.	with littered dry semi saline brown clay.	classes 3-4, HVD 50 m and floristic richness of 51-100 species.	occasional in area.		along Midlands Road	GPS		/01/2004
2285 P	Petrophile biternata	3						Moora.	MAN	3 30/0	/09/1946
								Quartz hill range N of			
	Regelia megacephala	4						Moora	MAN	0 06/0	/08/1996
				Hill, ex mined area, red sand over quartz			Abundance:	15 km N of Moora, Gravel			
6015 R		4	Shrub 5 m high, cerise flowers, fruit present.	rock.			frequent	pit	AUTO	3 15/1	/12/1990
6015 R	Regelia megacephala	- 4						6.6 miles N of Moora, 0.5			
6015 R	Regelia megacephala	-		Hill crowns in wheat fields. Quartz rock				miles E of Geraldton			
6015 R	Regelia megacephala	-		mili crowns in wheat fields. Quartz rock							
6015 R	Regelia megacephala Regelia megacephala	4		and gravel. Land Status: Private.	Open low Woodland on Heath A and B.	ca 5750 plants.	Grazing evident.	Highway	MAN	3 24/1	11/1982
6015 R				and gravel. Land Status: Private.	Open low Woodland on Heath A and B.	ca 5750 plants.	_	9.75 miles N of Moora, 0.4		3 24/:	/11/1982
6015 R					Open low Woodland on Heath A and B.	ca 5750 plants.	Grazing evident. Signs of recent			3 24/:	/11/1982
6015 R 6015 R 6015 R				and gravel. Land Status: Private.	Open low Woodland on Heath A and B. Heath A and thicket.	ca 5750 plants.	_	9.75 miles N of Moora, 0.4			/11/1982
6015 R 6015 R 6015 R	Regella megacephala	4		and gravel. Land Status: Private. Hill crown. Quartz rock and gravel. Land		·	Signs of recent	9.75 miles N of Moora, 0.4 miles E of Geraldton			
6015 R 6015 R 6015 R	Regella megacephala	4	Erect shrub 140 cm high x 130 cm wide, fertile, faint sweet smell. Rough	and gravel. Land Status: Private. Hill crown. Quartz rock and gravel. Land		·	Signs of recent	9.75 miles N of Moora, 0.4 miles E of Geraldton			

VameID	Taxon	Cons_Cod	e Plant_Desc	Site	Vegetation	Frequency	Notes	Locality	Geo_Meth	Precision I	Date
6015	Regelia megacephala	4	Erect, slender shrub to 2 m tall with faint sweet smell. Rough grey bark, leaves aromatic. Flowers purple. Decussate and verticillate leaves.	Hill. Rocky, gravelly sand over chert/quartzite.	Shrubland. Associated species: Daviesia dielsii, Acacia aristulata, Calothamnus sp., Allocasuarina huegeliana, A. campestris, Baeckea sp.			Cairn Hill, mostly on rocky slopes, 11 km N of Moora,	MAN	0	24/11/2000
6015	Regelia megacephala	4	Erect slender shrub to 2.5 m; flowers purple.	W steep slopes, yellow brown sandy loam.	Open low woodland of Allocasuarina huegeliana over shrubland with A. campestris and Baeckea sp. Moora.	estimated 50+ mature plants with fruit, over 100 x 100 m area.		Ca 11 km N of Moora, Cairn Hill, midslopes on W side along track to summit	GPS	1	29/11/1999
				Rocky hillside in quartz hill range. Quartz			12700 plants. Occurs 1.5 m and	miles E of Geraldton Highway, on track through			
6015	Regelia megacephala	4		rock and gravel. Land status: private.	A & B.		0.5 m S of quarry.	quarry	MAN	3	23/11/1982
30715	Stylidium carnosum subsp. Narrow leaves (J.A. Wege 490)	1		Gravelly grey sand, lateritic gravel upland.	Heath Dryandra kippistiana, D. carlinoides.			AMG 50JLL 946954 (Capitella 1:50,000 sheet) roadverge Barberton W Road, W of Moora	MAN	3	14/09/1988
7771	Stylidium periscelianthum	3		In moist soil in pockets on low granitic hill.				Ca 7 m [miles] NE Moora	AUTO	3	26/09/1973
	Stylidium sp. Moora (J.A. Wege 713)	2	Prostrate herb, 0.07 m high x 0.2 m wide. Flowers pink. Reproductive method: seeds.	Open flat area with some drainage, low lying areas. Road verge. Brown clay.	Tall trees. Wandoo Woodland - open with scattered annuals and grasses. With Eucalhytpus wandoo, Calytrix ecalycata subsp. pubescens.	21-50 plants.	Population structure: adult, 100% flowering.	5.5 km W of Midlands Road on Barberton West Road	GPS	1	09/09/2008
	Stylidium sp. Moora (J.A.			7	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
	Wege 713) Stylidium sp. Moora (J.A. Wege 713)	2	Flowers pink.	Landform: hill-gentle (mid to upper slope). Soil surface: sand. Soil colour: grey. Soil type: sand/gravel. Underlying geology: Moora groups of Protozoic rocks.	Heath. Characteristic sp.: Kunzea praestans, Dryandra sessilis and Allocasuarina camoestris.			Cairn Hill [N of Moora] Cairn Hill, 10 km N of Moora	MAN GPS	1	02/10/1968
33081	wege 713)				Anocasuarina campestris.			MOOTA	urs	-	27/09/2000
	Stylidium sp. Moora (J.A.			Landform: hill-steep (upperslope-upland). Soil surface: sand. Soil colour: grey. Soil type: sand over chert. Underlying				Cairn Hill, 10 km N of			
	Wege 713) Stylidium sp. Moora (J.A.	2		geology: Moora group of Protozoic rocks. Slopes. 5-10 cm needles - skeletal sand	Heath. Characteristic sp.: Regelia megacephala. Eucalyptus wandoo low woodland over Allocasuarina campestris			Moora Cairn Hill: 20 km N of	GPS	1	27/09/2000
	Wege 713)	2	Stilted perennial herb, 10 cm high x 30 cm wide. Flowers pink, in full flower		shrubland.	locally common.		Moora	GPS	1	08/10/2005
	Stylidium sp. Moora (J.A. Wege 713)	2		Gentle upper slope to NW. Whitish grey, gravelly siliceous sit/fine sand. Litter under Allocasuarina campestris. > 10 (>15 years since burn).	Allocasuarina huggeliana scattered low trees over Dryandra sessilis var. sessilis, Xanthornhoea drummondi scattered tall shrubs over Allocasuarina campestris shrubband to open heath over Melaleuca caleptrodies scattered shrubs to shruband over Borya se			Site. CAH003. Cairn Hill Westrail Reserve, approximately 11 km north of Moora on the Midlands Road. The plot is on the E side of track to the radio tower towards the top of the hill, approximately 700 m along the track from the Midlands Road.	GPS	1	23/10/2000
				Midslope, NW facing. Gravelly, grey sandy loam. Very rocky. > 10 years	Regelia megecephala open scrub over Allocasuarina campestris, Kunzea praestans open shrubland. Very little understorey, Allocasuarina campestris, Jaurdanthonia setzeae, Austrosipa variabilis, Borya			Site No. CHN004. About 15 km north of Moora. Cairn Hill North is the ridge of Cairn Hill extending north on to Goondero of arm. The plot is, approximately 1.1 km SSE of the entry to Goonderoo farm from the Midlands Road on a NW facing slope.	GPS		26/10/2000
	Stylidium sp. Moora (J.A.	2		unburnt							20/10/2000
33081	Stylidium sp. Moora (J.A. Wege 713) Stylidium sp. Moora (J.A.	2		unburnt. Gently sloping upper hillslope. Gravelly, pebbley siliceous silt/fine sand. Some	sphaerocephala, Briza maxima, Burchardia umbellata, C Eucalyptus eudesmioides subsp. eudesmioides low mallee open woodland to woodland over Regella megazephala open to closed scrub over Kunzea praestans, Xanthornbord arlumnonidi scattered shrubs over			Site no. CAH006. Cairn Hill Westrall Reserve, approximately 11 km north of Moora on the Midlands Road. The plot is ca 200 m NNW of the	0.3		

NameID	Tayon	Cons Code	e Plant Desc	Site	Vacatation	Frequency	Notes	Locality	Geo Meth	Precision	Date
IvallielD	Taxon	COIIS_COU	e Flair_Desc	Site .	vegetation	rrequency	Notes	Locality	Geo_mear	FIECISION	Date
								Site No. CHN006. About			
								15 km north of Moora.			
								Cairn Hill North is the			
								ridge of Cairn Hill			
								extending north on to			
					Allocasuarina huegeliana, Acacia acuminata subsp. acuminata scattered			Goonderoo farm. The plot			
					low trees over Kunzea praestans open heath over Hibbertia subvaginata			is on top of the ridge,			
	Stylidium sp. Moora (J.A.				low open shrubland over Neurachne alopecuroidea, Austrostipa			approximately 100 m			
33081	Wege 713)	2		Ridge top. Grey loamy sand.	variabilis, Austrodanthonia setacea very open grassla			south of CHN005.	TOPO	1	26/10/2000
	Stylidium sp. Moora (J.A.			Hilltop and hillside. SW aspect. Pale	Allocasuarina shrubland. With Acacia sp., Allocasuarina campestris,			Summit of Cairn Hill, N of			
33081	Wege 713)	2	Stilted trigger plant. Pink flowers.	brown gravelly clay loam.	Eucalyptus wandoo.	>=100.		Moora	GPS	1	13/11/2014
								Ca 100-150 m N of			
		_					Abundance: one	southern boundary on W			04/09/1997
16374	Synaphea quartzitica	Т	Low, somewhat sprawling shrub. 25 cm high x 15 cm wide. Flowering.	Hill slope. Stony clay chert.	Scrub/Thicket with Allocasuarina, Xanthorrhoea, Calytrix.		plant only - rare.	slope of hill	GPS	1	04/09/1997
							Plant appears to occur within and				
							on the edge of				
							taller				
							Allocasuarina				
1							thicket. All plants	Radio tower area. Cairn			
1				Hillslope, dry, rocky brown-grey clayey			on SSW - W	Hill (1.2 km E of Midlands			
16374	Synaphea quartzitica	т	Shrub. Flowering nearing end. Long trailing racemes.	sand.	Thicket.	infrequent.	aspect.	Road), 11 km N of Moora	GPS	1	05/09/1996
	Synaphea quartzitica		Small tufted shrub, flowers bright yellow, no scent.	In rocky, quartzite gully.	In shrubland with Casuarina, Melaleuca radula, Kunzea etc.	mirequene.	uspece.	Cairn Hill. N of Moora.	MAN	0	
103/4			and a second sec					S slope of Cairn Hill, ca 12			13,00,1333
								km NNE of Moora along			
								The Midlands Road.			
								Follow track through			
								Eucalyptus accedens			
				Moderately steeply sloping. Grey clay	Shrubland. Sparse tall Allocasuarina and open Allocasuarina shrubs with			woodland ca 20 m into			
16374	Synaphea quartzitica	т	Prostrate/sprawling subshrub. 10-15 cm tall. Peduncle and rachis green.	over quartzite.	Calytrix, Xanthorrhoea, Stylidium, Laxmannia, Myrtaceous shrubs.	occasional.		shrubland	GPS	1	30/08/1997
16374	Synaphea quartzitica	Т	Small tufted shrub, flowers bright yellow, no scent.	In rocky, quartzite gully.	In shrubland with Casuarina, Melaleuca radula, Kunzea etc.			Cairn Hill, N of Moora,	MAN	0	13/08/1993
			Caespitose shrub 40 cm high x 50 cm wide. Active growth phase. Flowers					24 km S of Moora on			
16773	Synaphea rangiferops	2	yellow.	Plain. Brown, gravelly sandy clay.		occasional.	flowering.	Midlands Road,	GPS	1	17/10/1999
								Site No. WDM002. About			
								15 km north of Moora.			
								This area is a proposed wastedump extension to			
								the south of the mine.			
					Allocasuarina huegeliana low woodland over Allocasuarina campestris		of sheoak low	This site was approx. 650 m east of the entry to			
					shrubland over Schoenus clandestinus, Borya sphaerocephala/Austrostipa		woodland, several	Goonderoo farm from the			
	Tricoryne sp. Wongan Hills			Moderate, west-facing mid-slope.	tenuifolia, Austrodanthonia acerosa open sedge/grassland. Allocasuarina		dead sheoak	Midlands Road and 200 m			
20458	(B.H. Smith 794)	2	15 cm high.	Gravelly (quartz) sany clay.	campestris, Allocasuarina huegeliana, Austr		trunks in area.	north of the farm track	GPS	1	22/10/2000
25430	(D.11. Jimur 134)		as an ingli.	Chartery (quarter) surry Clay.	competants, resocution in mageriand, Austr		u uma m died.	north or the lattit track	0.5	- 1	11,10,2000
							Abundance: 12-13				
							plants on N side of				
							road, a few seen in				
							paddock on S side				
				Slope. Brown clayey loam and sheet	Open mallee woodland and scrub to 3 m with low scrub beneath with		but not surveyed.	17.6 km W of Bunjil on N			
	Verticordia dasystylis			granite. Possibly grazed in paddock on S	Allocasuarina campestris, Borya sp., Melaleuca radula, Melaleuca sp.,		Area occupied: 10	and S sides of Road No. 2			
12410	subsp. oestopoia	1		side.	Thryptomene sp., Dodonoea sp.		x 10 m on N side.	at bend in road to E	MAN	0	09/11/1991
					Open scrub to 3 m with Acacia uncinata, Dodonaea sp., Daviesia sp.,			19 km W of Bunjil on road			
	Verticordia dasystylis				Mirbelia ramulosa, Glischrocaryon aureum, Grevillea sp., Scaevola sp.,		Abundance: 130+	No. 2 to Carnamah on			
12410	subsp. oestopoia	1		sheet granite.	Darwinia sp., Verticordia monadelpha.		plants.	bend to N	MAN	0	09/11/1991
								Gazetted Reserve 2425			
	Verticordia insignis subsp.							Wandawulla road, 5 km W			
12434	eomagis	3	Erect open shrub 50 cm high, flowers white centres red.	Lateritic soil.	Open scrub.			of Barberton West road	MAN	0	03/11/1992
1								AMG 50JLL946954			
1				1	1			(Capitella 1:50,000 sheet)	1 1		
		l .									
	Verticordia insignis subsp. eomagis	3	Shrub 30 cm.	Gravelly grey sand, lateritic gravel upland. Roadverge.	Heath, Dryandra kippistiana, D. carlinoides.			roadverge Barberton West Road, W of Moora	AUTO		14/09/1988



NatureMap Species Report

Created By Colleen McDonald on 22/10/2019

Kingdom Plantae

Current Names Only Yes

Core Datasets Only Yes

Method 'By Circle'

Centre 116° 01' 03" E,30° 39' 59" S

Buffer 20km

Group By Conservation Status

Conservation Status	Species	Records
Non-conservation taxon Priority 1 Priority 2 Priority 3 Priority 4 Rare or likely to become extinct	707 6 9 25 8 13	1498 14 34 58 35 110
TOTAL	768	1749

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Rare or likely	y to beco	me extinct			
1.	14051	Acacia aristulata		T	
2.	14062	Acacia cochlocarpa subsp. cochlocarpa		Т	
3.	14000	Conospermum densiflorum subsp. unicephalatum		T	
4.	5504	Darwinia acerosa (Fine-leaved Darwinia)		T	
5.	3806	Daviesia dielsii		T	
6.	17605	Eleocharis keigheryi		T	
7.	17150	Eremophila glabra subsp. chlorella		T	
8.	7266	Eremophila scaberula		T	Υ
9.	13093	Eucalyptus absita (Badgingarra Box)		T	
10.	7491	Goodenia arthrotricha		T	
11.	6177	Haloragis platycarpa		T	
12.	6835	Hemiandra gardneri (Red Snakebush)		T	
13.	16374	Synaphea quartzitica		Т	
Priority 1					
14.	14064	Acacia congesta subsp. cliftoniana		P1	
15.		Caladenia dundasiae		P1	
16.		Calytrix ecalycata subsp. pubescens		P1	
17.		Micromyrtus rogeri		P1	
18.		Stylidium carnosum subsp. Narrow leaves (J.A. Wege 490)		P1	
19.		Verticordia dasystylis subsp. oestopoia		P1	
	12410	volatorala datiyatyilo dabap. ottatopola			
Priority 2	20427	Animazanthan humilia auban, Badaingarra (S.D. Hannar 7414)		P2	
20.		Anigozanthos humilis subsp. Badgingarra (S.D. Hopper 7114)			
21.		Boronia ericifolia		P2 P2	
23.		Bossiaea moylei			
23. 24.		Eremaea sp. Cairn Hill (B. Morgan 532)		P2	
25.		Gompholobium roseum		P2	
25. 26.		Hemigenia curvifolia		P2 P2	
27.		Stylidium sp. Moora (J.A. Wege 713)			
28.		Synaphea rangiferops Trianging on Magan Hills (P.H. Smith 704)		P2	
Priority 3	29430	Tricoryne sp. Wongan Hills (B.H. Smith 794)		P2	
29.	14066	Acacia cummingiana		P3	
30.		Acacia nodiflora		P3	
31.		Austrostipa sp. Cairn Hill (M.E. Trudgen 21176)		P3	
32.		Babingtonia cherticola		P3	
33.		Babingtonia urbana (Coastal Plain Babingtonia)		P3	
34.		Banksia dallanneyi subsp. pollosta		P3	
35.					
35. 36.		Beaufortia bicolor (Badgingarra Beaufortia) Beaufortia eriocephala (Woolly Bottlebrush, Woolly Beaufortia)		P3	
		the Department of Biodiversity, Conservation and Attractions and the Western Australian Museum.	Departr Conser	ment of Biodiversity, rvation and Attractions	WESTERN AUSTRALI



	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
	_			P3	
37.		Blackallia nudiflora (Wedge-leaved Cryptandra)		P3	
38.		Calytrix ecalycata subsp. brevis		P3	
39.	11963	Daviesia debilior subsp. sinuans		P3	
40.	16887	Eucalyptus macrocarpa x pyriformis		P3	
41.	3922	Gastrolobium rotundifolium (Gilbernine Poison)		P3	
42.	16952	Guichenotia tuberculata		P3	
43.	29775	Isopogon drummondii		P3	
44.	16317	Isotropis cuneifolia subsp. glabra		P3	
45.	6354	Leucopogon allittii		P3	
46.	19363	Leucopogon tamminensis var. tamminensis		P3	
47.	33638	Meionectes tenuifolia		P3	
48.	5963	Melaleuca sclerophylla		P3	
49.		Petrophile biternata		P3	
50.		Stylidium periscelianthum (Pantaloon Triggerplant)		P3	
51.		Stylidium sacculatum		P3	
52.					
		Verticordia huegelii var. tridens		P3	
53.	12434	Verticordia insignis subsp. eomagis		P3	
Priority 4	E206	Colathomaria accordana		D4	
54.		Calothamnus accedens		P4	
55.		Calothamnus pachystachyus		P4	
56.		Desmocladus elongatus		P4	
57.	12936	Diuris recurva		P4	
58.	16944	Eucalyptus x carnabyi		P4	
59.	2087	Grevillea saccata (Pouched Grevillea)		P4	
60.	5145	Hibbertia miniata (Orange Hibbertia)		P4	
61.	6015	Regelia megacephala		P4	
Non-conserv	ation tax	con			
62.		Abutilon oxycarpum (Flannel Weed)			
63.	15460	Acacia aculeiformis			
64.	3200	Acacia acuminata (Jam, Mangard)			
65.		Acacia aestivalis			
66.		Acacia auronitens			
67.		Acacia baxteri (Baxter's Wattle)			
68.		Acacia bidentata			
69.		Acacia brumalis			
70.					
		Acacia congesta subsp. congesta			
71.		Acacia costata			
72.		Acacia daphnifolia			
73.		Acacia drummondii subsp. drummondii			
74.	18194	Acacia ericksoniae			
75.	3324	Acacia erinacea			
76.	3366	Acacia hemiteles			
77.	3376	Acacia idiomorpha			
78.	3391	Acacia jacksonioides			
79.		Acacia lasiocarpa var. bracteolata			
80.		Acacia lasiocarpa var. lasiocarpa			
81.		Acacia lasiocarpa var. sedifolia			
82.		Acacia latipes			
83.		Acacia leptospermoides subsp. leptospermoides			
		Acacia ligustrina Acacia ligustrina			
84.		-			
85.		Acacia lineolata subsp. lineolata			
86.		Acacia microbotrya (Manna Wattle, Kalyang)			
87.		Acacia multispicata			
88.		Acacia oxyclada			
89.	15481	Acacia pulchella var. glaberrima			
90.	15482	Acacia pulchella var. goadbyi			
91.	15483	Acacia pulchella var. pulchella			
92.	15480	Acacia pulchella var. reflexa			
93.	30033	Acacia saligna subsp. lindleyi			
94.		Acacia saxatilis			
95.		Acacia scirpifolia			
96.		Acacia sessilis			
		Acacia shuttleworthii			
97.		Acacia sphacelata subsp. sphacelata			
97.					
98.		Acadia stanontera (Narrow Minacel Mottle)			
98. 99.	3557	Acacia stenoptera (Narrow Winged Wattle)			
98. 99. 100.	3557 3587	Acacia ulicina			
98. 99.	3557 3587 1205				







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
103.		Adenanthos cygnorum subsp. cygnorum (Common Woollybush)			
104.		Adenanthos drummondii	.,		
105. 106.		Aira elegantissima Allocasuarina campestris	Y		
107.		Allocasuarina tumilis (Dwarf Sheoak)			
108.		Allocasuarina microstachya			
109.	2648	Alternanthera denticulata (Lesser Joyweed)			
110.	2653	Alternanthera pungens (Khaki Weed)	Υ		
111.		Alyogyne hakeifolia			
112.		Alyogyne sp. Hutt River (B.J. Lepschi & T.R. Lally 2310)			
113. 114.		Amphibromus nervosus Amphipogon caricinus (Long Greybeard Grass)			
115.		Amphipogon caricinus var. caricinus			
116.		Amyema miquelii (Stalked Mistletoe)			
117.	13266	Amyema miraculosa subsp. miraculosa			
118.	2383	Amyema preissii (Wireleaf Mistletoe)			
119.		Andersonia heterophylla			
120. 121.		Anigozanthos humilis (Catspaw)			
121.		Anigozanthos humilis subsp. humilis Anigozanthos viridis subsp. viridis			
123.		Anthocercis littorea (Yellow Tailflower)			
124.		Apium annuum			
125.	7838	Arctotheca calendula (Cape Weed, African Marigold)	Υ		
126.	207	Aristida contorta (Bunched Kerosene Grass)			
127.		Aristida holathera			
128. 129.		Arthropodium dyeri			
130.		Astroloma glaucescens Astroloma microdonta (Sandplain Cranberry)			
131.		Astroloma pallidum (Kick Bush)			
132.		Astroloma serratifolium (Kondrung)			
133.	6339	Astroloma xerophyllum			
134.	2457	Atriplex exilifolia			
135.		Atriplex lindleyi subsp. inflata			
136. 137.		Austrostipa eremophila Austrostipa sp. Marchagee (B.R. Maslin 1407)			
137.		Austrostipa variabilis			
139.		Avena barbata (Bearded Oat)	Υ		
140.	234	Avena fatua (Wild Oat)	Υ		
141.	45398	Babingtonia erecta			
142.		Baeckea grandis			
143.		Banksia attenuata (Slender Banksia, Piara)			
144. 145.		Banksia carlinoides (Pink Dryandra) Banksia fraseri			
146.		Banksia fraseri var. fraseri			
147.	32518	Banksia hewardiana			
148.	32215	Banksia kippistiana var. kippistiana			
149.		Banksia leptophylla var. leptophylla			
150.		Banksia menziesii (Firewood Banksia)			
151. 152.		Banksia nobilis subsp. nobilis Banksia polycephala (Many-headed Dryandra)			
152.		Banksia prionotes (Acorn Banksia)			
154.		Banksia purdieana			
155.		Banksia sessilis var. flabellifolia			
156.	32080	Banksia sessilis var. sessilis			
157.		Banksia shuttleworthiana (Bearded Dryandra)			
158.		Banksia sphaerocarpa var. sphaerocarpa (Fox Banksia)			
159. 160.		Beaufortia kwongkanicola (Lesueur Beaufortia) Bellardia trixago (Bellardia)	Υ		
161.		Billardiera coriacea	ī		
162.		Billardiera fusiformis (Australian Bluebell)			
163.	7856	Blennospora drummondii			
164.		Boerhavia coccinea (Tar Vine, Wituka)			
165.		Boronia coerulescens			
166.	11/00	Boronia coerulescens subsp. spicata			
167		Roronia coerulescens subsp. spinescens			
167. 168.	11274	Boronia coerulescens subsp. spinescens Boronia ramosa			
167. 168. 169.	11274 4438	Boronia coerulescens subsp. spinescens Boronia ramosa Boronia ramosa subsp. anethifolia			
168.	11274 4438 11381	Boronia ramosa			
168. 169.	11274 4438 11381 16639	Boronia ramosa Boronia ramosa subsp. anethifolia			









	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
173.	6341	Brachyloma preissii (Globe Heath)			
174.	8661	Brachypodium distachyon (False Brome)	Υ		
175.	7867	Brachyscome bellidioides			
176.	7878	Brachyscome iberidifolia			
177.	11187	Brassica barrelieri subsp. oxyrrhina (Smooth-stem Turnip)	Υ		
178.	253	Bromus rubens (Red Brome)	Υ		
179.	6675	Buglossoides arvensis (Corn Gromwell)	Υ		
180.		Bulbine semibarbata (Leek Lily)			
181.		Burchardia congesta			
182.		Caesia micrantha (Pale Grass Lily)			
183.		Caesia sp. Wongan (K.F. Kenneally 8820)			
184.		Caladenia denticulata			
185.		Caladenia exilis subsp. vanleeuwenii			
186. 187.		Caladenia flava subsp. flava Caladenia footeana			
188.		Caladenia hirta subsp. hirta			
189.		Caladenia Innta Subsp. Innta Caladenia longicauda (Common White Spider Orchid)			
190.		Caladenia longicauda (Common White Spider Orchid) Caladenia longicauda subsp. albella			
191.		Caladenia longicauda subsp. eminens			
192.		Caladenia sp.			
193.	2846	Calandrinia calyptrata (Pink Purslane)			
194.		Calectasia hispida			
195.		Callistemon phoeniceus (Lesser Bottlebrush, Dubarda)			
196.		Callitris arenaria (Sandplain Cypress)			
197.		Callitris canescens			
198.	5417	Calothamnus longissimus			
199.	35756	Calothamnus quadrifidus subsp. angustifolius			
200.	35816	Calothamnus quadrifidus subsp. quadrifidus			
201.	5429	Calothamnus sanguineus (Silky-leaved Blood flower, Pindak)			
202.	7903	Calotis hispidula (Bindy Eye)			
203.	13654	Calytrix breviseta subsp. stipulosa			
204.	48450	Calytrix cravenii			
205.	5450	Calytrix depressa			
206.	12771	Calytrix ecalycata			
207.		Calytrix fraseri (Pink Summer Calytrix)			
208.		Calytrix glutinosa			
209.		Calytrix gracilis			
210.		Calytrix leschenaultii			
211.		Calytrix sapphirina			
212.		Callytrix strigosa			
213.		Campylopus clavatus			
214. 215.		Campylopus introflexus Carthonius Innet in (Cofficen Thietle)	Y Y		
215.		Carthamus lanatus (Saffron Thistle) Cassytha pomiformis (Dodder Laurel)	Y		
217.		Casuarina obesa (Swamp Sheoak, Kuli)			
218.		Centaurium tenuiflorum	v		
219.		Centrolepis pilosa	'		
220.		Cephalosorus carpesioides			
221.		Chamaescilla corymbosa (Blue Squill)			
222.		Chamaescilla corymbosa var. corymbosa			
223.		Chamaescilla spiralis			
224.		Chamaescilla versicolor			
225.	35656	Chamelaucium drummondii subsp. Carnamah (R.J.Cranfield & P.J. Spencer 7966)			
226.	14808	Chamelaucium drummondii subsp. drummondii			
227.	34	Cheilanthes distans (Bristly Cloak Fern)			
228.	2483	Chenopodium album (Fat Hen)	Υ		
229.	2494	Chenopodium murale (Nettle-leaf Goosefoot)	Υ		
230.		Chloris truncata (Windmill Grass)			
231.		Chorizema aciculare subsp. laxum			
232.		Chorizema racemosum			
233.		Chorizema rhynchotropis			
234.		Codonocarpus cotinifolius (Native Poplar, Kundurangu)			
235.		Comesperma calymega (Blue-spike Milkwort)			
236.		Comesperma integerrimum Comesperma valubila (Lova Creanar)			
237.		Conspormum correction subspirate accretion			
238. 239.		Conospermum brachynhyllum			
239. 240.		Conospermum brachyphyllum Conospermum crassinervium (Summer Smokebush)			
240.		Conospermum crassinervium (Summer Smokebush) Conospermum densiflorum subsp. densiflorum			
242.		Conospermum stoechadis subsp. sclerophyllum			
			Departmer Conserval	t of Biodiversity,	WESTERN

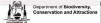






	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
243.	6347	Conostephium minus (Pink-tipped Pearl flower)			17.7
244.	6349	Conostephium preissii			
245.	11552	Conostylis aculeata subsp. bromelioides			
246.	1420	Conostylis androstemma (Trumpets)			
247.	11438	Conostylis candicans subsp. candicans			
248.	48452	Conostylis crassinerva subsp. absens			
249.		Conostylis festucacea subsp. festucacea			
250.		Conostylis festucacea subsp. filifolia			
251.		Conostylis hiemalis			
252.		Conostylis latens			
253.		Conostylis prolifera (Mat Cottonheads)			
254.		Conostylis setigera subsp. setigera			
255. 256.		Conostylis teretifolia subsp. teretifolia			
257.		Conostylis teretiuscula Corrigiola litoralis (Strapwort)	Υ		
258.		Corynanthera flava	ī		
259.		Corynotheca micrantha var. acanthoclada			
260.		Cotula bipinnata (Ferny Cotula)	Υ		
261.		Cotula cotuloides (Smooth Cotula)			
262.		Crassula colorata (Dense Stonecrop)			
263.		Crassula colorata var. acuminata			
264.		Crassula natans	Υ		
265.	15706	Crassula natans var. minus	Υ		
266.	41203	Croton setiger (Doveweed)	Υ		
267.	31571	Cryptandra intermedia			
268.	9076	Cryptandra myriantha			
269.	4804	Cryptandra nutans			
270.	4809	Cryptandra pungens			
271.	15114	Cyanicula gemmata			
272.	281	Cymbopogon obtectus (Silkyheads)			
273.	283	Cynodon dactylon (Couch)	Υ		
274.		Cyperus gymnocaulos (Spiny Flat-sedge)			
275.		Dampiera lavandulacea			
276.		Dampiera lindleyi			
277.		Dampiera linearis (Common Dampiera)			
278.		Dampiera oligophylla (Sparse-leaved Dampiera)			
279.		Dampiera spicigera (Spiked Dampiera)			
280. 281.		Dampiera teres (Terete-leaved Dampiera)			
282.		Darwinia neildiana (Fringed Bell) Darwinia purpurea (Rose Darwinia)			
283.		Daucus glochidiatus (Australian Carrot)			
284.		Daviesia benthamii			
285.		Daviesia divaricata subsp. divaricata			
286.		Daviesia hakeoides subsp. subnuda			
287.		Daviesia incrassata subsp. incrassata			
288.	15506	Daviesia incrassata subsp. teres			
289.	3835	Daviesia preissii			
290.	3845	Daviesia triflora			
291.	17663	Desmocladus asper			
292.	19246	Desmocladus austrinus			
293.	17712	Desmocladus semiplanus			
294.	11636	Dianella revoluta var. divaricata			
295.	1287	Dichopogon capillipes			
296.	1289	Dichopogon preissii			
297.		Didymanthus roei			
298.		Dioscorea hastifolia (Warrine, Wararn)			
299.		Diplolaena angustifolia (Yanchep Rose)			
300.		Diuris septentrionalis			
301.		Dodonaea pinifolia Prosera drummondii			
302. 303		Drosera drummondii Drosera danduligera (Pimpernel Sundew)			
303. 304.		Drosera glanduligera (Pimpernel Sundew) Drosera heterophylla (Swamo Rainhow)			
304.		Drosera heterophylla (Swamp Rainbow) Drosera hirsuta			
306.		Drosera macrophylla (Showy Sundew)			
307.		Drosera macrophylia (Snowy Sundew) Drosera menziesii (Pink Rainbow)			
308.		Drosera sp. Branched styles (S.C. Coffey 193)			
309.		Drosera spilos			
310.		Drosera subhirtella (Sunny Rainbow)			
311.		Dysphania pumilio (Clammy Goosefoot)			
312.		Eccremidium pulchellum			
			Department Conservati	of Biodiversity,	WESTERN









	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
313.	1066	Ecdeiocolea monostachya			
314.	349	Ehrharta longiflora (Annual Veldt Grass)	Υ		
315.	822	Eleocharis acuta (Common Spikerush)			
316.	2510	Enchylaena lanata			
317.		Eragrostis curvula (African Lovegrass)	Υ		
318.	13952	Eremaea asterocarpa subsp. histoclada			
319.		Eremaea beaufortioides			
320.		Eremaea pauciflora var. lonchophylla			
321.		Eremaea violacea subsp. violacea			
322.		Eremophila glabra (Tar Bush)			
323.		Eremophila lehmanniana			
324.		Ericksonella saccharata			
325.		Ericomyrtus serpyllifolia			
326. 327.		Ericomyrtus tenuior Fradium cyanorum (Plua Haranshill)			
328.		Erodium cygnorum (Blue Heronsbill) Erymophyllum tenellum			
329.		Eucalyptus arachnaea (Black-stemmed Mallee)			
330.		Eucalyptus armillata (Red-flowered Mallee)			
331.		Eucalyptus celastroides subsp. virella			
332.		Eucalyptus decipiens (Limestone Marlock, Moit)			
333.		Eucalyptus drummondii (Drummond's Gum)			
334.		Eucalyptus eudesmioides (Malallie, Marlarli)			
335.		Eucalyptus falcata (Silver Mallet, Dulyumuk)			
336.		Eucalyptus flocktoniae (Merrit, Merid)			
337.	18521	Eucalyptus flocktoniae subsp. flocktoniae			
338.	5658	Eucalyptus gittinsii (Northern Sandplain Mallee)			
339.	18292	Eucalyptus gittinsii subsp. illucida			
340.	5673	Eucalyptus horistes			
341.	5701	Eucalyptus longicornis (Red Morrel, Moril)			
342.	11295	Eucalyptus loxophleba subsp. loxophleba (York Gum)			
343.	5722	Eucalyptus obtusiflora (Dongara Mallee)			
344.	19559	Eucalyptus obtusiflora subsp. obtusiflora			
345.	20047	Eucalyptus orthostemon			
346.	5761	Eucalyptus rigidula (Stiff-leaved Mallee)			
347.		Eucalyptus rudis (Flooded Gum, Kulurda)			
348.		Eucalyptus salmonophloia (Salmon Gum, Wurak)			
349.		Eucalyptus subangusta subsp. subangusta			
350.		Eucalyptus todtiana (Coastal Blackbutt)			
351.		Eucalyptus wandoo subsp. pulverea			
352. 353.		Eucalyptus wandoo subsp. wandoo Exocarpos sparteus (Broom Ballart, Djuk)			
354.		Fumaria capreolata (Whiteflower Fumitory)	Υ		
355.		Gastridium phleoides (Nitgrass)	Y		
356.		Gastrolobium acutum			
357.		Gastrolobium axillare			
358.		Gastrolobium callistachys (Rock Poison)			
359.		Gastrolobium calycinum (York Road Poison)			
360.		Gastrolobium cyanophyllum			
361.		Gastrolobium ilicifolium			
362.		Gastrolobium obovatum (Boat-leaved Poison)			
363.	3912	Gastrolobium oxylobioides (Champion Bay Poison)			
364.	3916	Gastrolobium polystachyum (Horned Poison)			
365.	3924	Gastrolobium spinosum (Prickly Poison)			
366.	4483	Geleznowia verrucosa			
367.		Gilberta tenuifolia			
368.		Glischrocaryon aureum (Common Popflower)			
369.		Glischrocaryon flavescens			
370.		Gompholobium glutinosum			
371.		Gompholobium marginatum			
372.		Gompholobium muticum			
373.		Gonocarpus nodulosus			
374.		Goodenia berardiana			
375. 376		Goodenia coerulea			
376. 377.		Goodenia convexa Goodenia hassallii			
377. 378.		Goodenia pusilliflora (Smallflower Goodenia)			
378. 379.		Gooderiia pusiiiiriora (Smaiiriower Gooderiia) Gorteria personata (Gorteria)	Υ		
379. 380.		Grevillea biformis	ī		
381.		Grevillea biformis subsp. biformis			
382.		Grevillea biternata			
			Departmen	of Biodiversity,	WESTERN







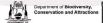
1865	N	lame ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
386. 2010 Convention anticology (Palmon Convolute, Autory-pulsary)	383.	1966	Grevillea brachystachya (Short-spiked Grevillea)			7404
2014	384.	1968	Grevillea bracteosa (Bracted Grevillea)			
387. 1542 General Indicates Indicates Analysis Managers 380. 1543 General Indicates Analysis Managers 380. 1543 General Indicates Analysis Managers 380. 1543 General Indicates Analysis Managers 380. 2006 General Analysis (Monty-Observations) 380. 2006 General Analysis (Monty-Observations) 380. 2006 General Analysis (Monty-Observations) 380. 2016 General Analysis (Monty-Observations) 380. 2017 General Indicates (Indicates Indicates In	385.	2001	Grevillea eriostachya (Flame Grevillea, Kaliny-kalinypa)			
1986	386.	2014	Grevillea hakeoides			
390. 1545 General Productions authory horizontal			·			
391. 2018 Greatiles plusifies (Victor) Annexed Greatiles						
981. 200 Granish a Sulfan (Votable Sulf						
302. 1774 Granicia and individuant filians a budge, Canabria						
393. 5913 Guicherholds microarbal (Simal Provience Guicherholds)						
1961. 1971			·			
395. 278. Gyrothernor acebruydar 397. 278. Gyrothernor acebruydar 398. 177. Hearnochura arabusus 399. 177. Hearnochura arabusus 399. 177. Hearnochura arabusus 400. 213. Helkee acendoriea 411. 213. Helkee acendoriea 402. 214. Helkee acendoriea 403. 214. Helkee acendoriea 404. 1128. Helkee acendoriea 405. 215. Helkee acendoriea 406. 215. Helkee acendoriea 407. 210. Helkee acendoriea 408. 217. Helkee increased (Morthe Falkee) 409. 217. Helkee increased (Morthe Falkee) 410. 425. Melkee principe (Norry Bush) 411. 216. Helkee groups (Morthey Bush) 412. 217. Helkee increased (Morthey Falkee) 413. 216. Helkee groups (Morthey Bush) 414. 216. Helkee groups (Morthey Bush) 415. 217. Helkee groups (Morthey Bush) 416. 218. Helkee groups (Morthey Bush) 417. 118. Helkee groups (Morthey Bush) 418.						
386. 2786 Gyratemor sambous schwalus						
307. 2786 Gyrodremon submuchus 308. 11707 Heamodown sminumin 309. 17570 Heave anaderine 401. 2713 Heave anaderine 401. 2713 Heave anaderine 402. 2714 Heave coated (Fibbert de Heave) 403. 2716 Heave coated (Fibbert de Heave) 404. 4107 Heave (Fibert de Heave) 405. 2716 Heave increased (Fibert de Heave) 407. 2716 Heave increased (Fibert de Heave) 407. 2716 Heave increased (Fibert de Heave) 408. 2717 Heave inspendent Heave) 409. 2717 Heave inspendent (Fibert de Leave) 410. 4523 Heave recurse substances (Fibert fiber (Fiber Dendire) 411. 2716 Heave recurse substances (Fibert fiber fib			•			
398. 1473 Naerandoxum airvulens						
400. 2115 Fakea auriculata 401. 2115 Fakea commutata 402. 2145 Pakea commutata 403. 2145 Pakea commutata 403. 2146 Pakea commutata 404. 11924 Fakea cypria autisio, porjet (Swan Fruit Pakea) 405. 215 Pakea Stander (Faction-Roy Takea) 406. 215 Pakea Stander (Faction-Roy Takea) 407. 2175 Fakea Stander (Faction-Roy Takea) 408. 2175 Fakea Stander (Faction-Roy Takea) 409. 2175 Fakea Stander (Faction-Roy Stander) 410. 4233 Fakea recognitivitat 410. 4233 Fakea recognitivitat 411. 1223 Fakea recognitivitat 412. 1223 Fakea recognitivitat 413. 1755 Fakea recognitivitat 414. 1222 Fakea recognitivitat 415. 2776 Fakea recognitivitat 416. 1223 Fakea recognitivitat 417. 1223 Fakea recognitivitat 418. 1755 Fakea recognitivitat 419. 1223 Fakea recognitivitat 410. 1223 Fakea recognitivitat 411. 1225 Fakea recognitivitat 412. 1225 Fakea recognitivitat 413. 1755 Fakea recognitivitat 414. 1227 Fakea recognitivitat 415. 2776 Fakea recognitivitat 416. 1755 Fakea recognitivitat 417 Fakea recognitivitation 418 Fakea recognitivitation 419 Fakea recognitivitation 419 Fakea recognitivitation 410 Fakea recognitivitation 410 Fakea recognitivitation 411 Fakea recognitivitation 412 Fakea recognitivitation 413 Fakea recognitivitation 414 Fakea recognitivitation 415 Fakea recognitivitation 416 Fakea recognitivitation 417 Fakea recognitivitation 418 Fakea Roy Fakea recognitivitation 419 Fakea Roy Fakea recognitivitation 419 Fakea Roy Fakea recognitivitation 420 Fakea Roy Fakea recognitivitation 421 Fakea Roy Fakea Ro	398.					
401. 2115 Pakes candolleana	399.	17670	Hakea anadenia			
402. 2142 Relates commutate 403. 10124 Relates captacter (Richard Holese) 404. 11024 Relates captacter (Richard Holese) 405. 2158 Holese extracter (Richard Holese) 406. 2158 Holese extracter (Richard Holese) 407. 2166 Relates extracters (Richard Holese) 408. 2179 Relates Intracessate (Rathel Holese) 409. 2179 Relates Intracessate (Rathel Holese) 409. 2179 Relates Intracessate (Rathel Holese) 410. 40333 Relate Intragricate 411. 2166 Relates Intragricate 412. 1223 Relates preside (Related Holese) 413. 17557 Relates Intraces (Reveal Holese) 414. 21716 Relates Intraces (Reveal Holese) 415. 22716 Relates Intraces (Reveal Holese) 416. 6083 Relationate International 417. 6083 Relationate International 417. 6083 Relationate International 418. 6085 Relationate International 419. 6085 Relationate International 410. 6085 Relationate International 420. 6085 Relationate International 421. 1229 Relationate International 422. 5106 Relationate International 423 Solid Relationate International 424. 5107 Relationate International 425 Solid Relationate International 426 Solid Relationate International 427 Solid Relationate International 428 Additional Relationational International 429 Additionational Relationational International 429 Additionational Relationational International 420 Solid Relationational International 421 Solid Relationational International 422 Solid Relationational International 423 Solid Relationational International 424 Solid Relationational International 425 Solid Relationational International Interna	400.	2131	Hakea auriculata			
403. 2146 Faleac contain (Pitabel Hairas) 404. 4152 A Faleac contained (Fridage-hog Faleac) 405. 2158 Faleac contained (Fridage-hog Faleac) 406. 2154 Faleac (Fridage-hog Faleac) 407. 2156 Faleac Inscreased (Faleach Faleac) 408. 2175 Faleac Inscreased (Faleach Faleach) 409. 2179 Faleac Inscreased (Faleach Faleach) 410. 40333 Faleac Inscreased (Faleach Faleach) 411. 2122 Faleace protection (Faleach Faleach) 412. 1223 Faleace active (Faleach Faleach) 413. 1175 Faleace active (Faleach Faleach) 414. 2124 Faleace protection (Faleach Faleach) 415. 2021 Faleace protection (Faleach) 416. 6835 Faleace protection (Faleach) 417. 6836 Faleach (Faleach) 418. 6839 Faleach (Faleach) 419. 6850 Faleach (Faleach) 420. 6850 Faleach (Faleach) 421. 1213 Faleach (Faleach) 422. 5108 Faleach (Faleach) 423. 5101 Faleach (Faleach) 424. 510 Faleach (Faleach) 425.	401.	2136	Hakea candolleana			
404. 11924 Hakee cypra subsp. cypra (Sam Fruit Hakea) 405. 2159. Hakee microscae (Fridep-hory Hakea) 406. 2154 Hakee gilbertii 407. 2168 Hakee increascate (Martie Hakea) 408. 2117 Hakee megratiid 409. 2119 Hakee megratiid 410. 45333 Hakee megathiidat 411. 2185 Hakee presiss (Needer Tree, Dandjin) 412. 1223 Hakee princiss (Needer Tree, Dandjin) 413. 17557 Hakee recurva subsp. recurva 414. 2123 Hakee princiss (Needer Tree, Dandjin) 415. 2017 Hakee princiss (Needer Tree, Dandjin) 416. 6838 Hermindrii ancam 417. 6838 Hermindrii ancam 417. 6838 Hermindrii ancam 418. 6838 Hermindrii ancam 419. 6851 Hermindrii ancam 419. 6851 Hermindrii ancam 419. 6851 Hermindrii ancam 420. 1658 Hermindrii ancam 421. 1223 Hermindrii ancam 422. 1510 Hibbertii acerosci (Needer Leeved Guines Flower) 423. 5116 Hibbertii acerosci (Needer Leeved Guines Flower) 424. 5120 Hibbertii acerosci (Needer Leeved Guines Flower) 425. 20051 Hibbertii acerosci (Needer Leeved Guines Flower) 426. 4551 Hibbertii acerosci (Needer Leeved Guines Flower) 427. 5130 Hibbertii acerosci (Needer Leeved Guines Flower) 428. 5117 Hibbertii acerosci (Needer Leeved Guines Flower) 429. 4381 Hibbertii acerosci (Needer Leeved Guines Flower) 439. 6137 Hibbertii acerosci (Needer Leeved Guines Flower) 430. 5137 Hibbertii acerosci (Needer Leeved Guines Flower) 431. 422 514 Hibbertii acerosci (Needer Leeved Guines Flower) 432 515 Hibbertii acerosci (Needer Leeved Guines Flower) 433 617 Hibbertii acerosci (Needer Leeved Guines Flower) 434 517 Hibbertii acerosci (Needer Leeved Guines Flower) 435 618 Hibbertii acerosci (Needer Leeved Guines Flower) 436 619 Hibbertii acerosci (Needer Leeved Guines Flower) 437 619 Hibbertii acerosci (Needer Leeved Guines Flower) 438 619 Hibbertii acerosci (Needer Leeved Guines Flower) 439 610 Hibbertii acerosci (Needer Leeved Guines Flower) 430 611 Hibbertii acerosci (Needer Leeved Guines Flower) 431 610 Hibbertii acerosci (Needer Leeved Guines Flower) 432 610 Hibbertii acerosci (Needer Leeved Guines Flower) 433 617 Hibbertii acerosci (Needer Leeved	402.	2142	Hakea commutata			
405. 2155 Hakea erinace (Friege-hog Friskes)	403.	2146	Hakea costata (Ribbed Hakea)			
408. 2104 Nelsee gillordri 407. 2105 Nelsee inconstant (Marchie Halee) 408. 2175 Nelsee missprings 409. 2179 Nelsee missprings 410. 4533 Halee missprings 411. 2195 Nelsee missprings 412. 1223 Halee gillorinyncha 413. 17957 Halee recurva suisip, recurva 414. 2214 Halee diminated (Twi-led Halee) 415. 29716 Nelsgamia sp. Morgan Hills (K.F. Kennesh) 2393) 416. 6836 Hermandra incara (Silly Nemperior) 417. 6838 Hermandra incara (Silly Nemperior) 418. 6859 Hermandra incara (Silly Nemperior) 420. 6850 Hermandra incara (Silly Nemperior) 421. 1283 Hermandra furbinate 422. 1516 Hibberia corosa (Neede Lasard Guinea Flower) 423. 5116 Hibberia corosa (Neede Lasard Guinea Flower) 424. 1510 Hibberia corosa (Neede Lasard Guinea Flower) 425. 2005 I Hibberia suspicus (Large Hibberia) 426. 3171 Hibberia suspicus (Large Hibberia) 427. 403 Hibberia suspicus (Large Hibberia) 428. 3171 Hibberia suspicus	404.	11924	Hakea cygna subsp. cygna (Swan Fruit Hakea)			
407. 2166 Nakee increasate (Marcher Pakee)						
408. 2179 Hakea Braccapha (Knery Sush) 409. 2179 Hakea macspathulata 411. 2169 Hakea pressis (Recellet Tree, Dandyn) 412. 21233 Hakea nacspathulata 411. 2169 Hakea pressis (Recellet Tree, Dandyn) 413. 17557 Hakea recurva subpt, recurva 414. 21231 Hakea Pracurva subpt, recurva 415. 29716 Hakea pracurva subpt, recurva 416. 29716 Hakea mit (Specified Snakebush) 417. 8838 Hemiandra incaria (Specified Snakebush) 418. 8838 Hemiandra incaria (Specified Snakebush) 419. 8838 Hemiandra incaria (Specified Snakebush) 419. 8851 Hemigenia drummandii 420. 8856 Hemigenia incaria (Slixy Hamigenia) 421. 12799 Henstmain kurbinata 422. 5108 Habberlia exerosa (Recell Leaved Guinea Flower) 423. 5116 Habberlia carstolia 424. 5120 Habberlia desmopphila 425. 2005 Habberlia disnasegenos 426. 45534 Habberlia hiparecoles suban hyperiocodes 427. 5139 Habberlia disnasegurana 428. 4511 Habberlia sipicus (Large Habberla) 429. 48581 Habberlia sipicus (Large Habberla) 430. 5171 Habberlia sipicus 431. 448 Hordeum lepontum (Barky Grass) 432. 4581 Habberlia sipicus 433. 1271 Hybapama colulia 434. 1271 Hybapama colulia 435. 5220 Hydrocolyk dismina 436. 537 Hyboratin solulia subap, finchundus 437. 5817 Hypocalymna angustifolium (White Myrtle, Kudjid) 438. 3567 Hypocalymna angustifolium (White Myrtle, Kudjid) 439. 3507 Hypocalymna angustifolium (White Myrtle, Kudjid) 440. 808 Hypochaens glabra (Smoth Catear) 441. 442 2200 (Salejas carnua var. selformia 443. 3507 Hypocalymna angustifolium (White Myrtle, Kudjid) 444. 221 (Salepogna denantholices (Sloter Coneflower) 445. 222 (Salepogna discomis (Lamb Polson) 446. 322 (Salepogna discomis (Lamb Polson) 447. 3698 (Storopas sp. Shark Bay (M.E. Trudgen 7170) 448. 3698 (Storopas sp. Shark Bay (M.E. Trudgen 7170) 450. 3698 (Storopas sp. Shark Bay (M.E. Trudgen 7170)			-			
409. 2179 Malea marginata			· · · · · · · · · · · · · · · · · · ·			
410. 4533 Hakea resognituria (411. 2196 Hakea presial (Needle Tree, Dandjin) 412. 1223 Hakea presial (Needle Tree, Dandjin) 413. 1755/ Hakea recurva subsp. recurva 414. 2214 Hakea furcasi (Two-seld Hakea) 415. 29710 Hakgaria sp. Wingan Hills (F.F. Kenneally 2903) 416. 6836 Heminarda incana (Specied Snakebush) 417. 6838 Heminarda incana (Silky Hemigenia) 418. 6839 Heminarda nungana (Snakebush) 419. 6851 Hemigenia drummondi 420. 6850 Hemingenia drummondi 421. 1239 Heristeriale furbinata 422. 5108 Hibbertia sucrasi (Silky Hemigenia) 423. 5116 Hibbertia carasifolia 424. 5120 Hibbertia desmophylia 425. 5105 Hibbertia sucrosi (Needle Leaved Guinea Flower) 426. 4554 Hibbertia sidaresognos 427. 5138 Hibbertia sidaresognos 428. 5117 Hibbertia sidaresognos 429. 45318 Hibbertia sidaresognos 429. 45318 Hibbertia sidaresognos 430. 5171 Hibbertia sidaresognos 431 449 Hordeum leporimur (Barky Grass) 432. 507 Hivosa stricta 433. 12714 Hyakosperma cottula 434. 419 Hordeum leporimur (Barky Grass) 435 6220 Hydrocopky diamiha 436. 621 Hydrocopky elimera var glabetta 437. 5817 Hypocalymma angustifolium subsp. Danderagan plateau (S. Patrick 702A) 438. 5807 Hypocalymma angustifolium subsp. Swan Caestal Plain (G.J. Keigriery 16777) 440. 8808 Hypochaera globata (Smoth Caestar) 441. 1687 3 Isopogon adenantholose (Spider Conellower) 442. 2200 (Solejas cerusa var. selficmis 443. 434 1510 (Solejas plates var. selficmis 444. 221 Isopogon adenantholose (Spider Conellower) 445. 522 Isopogon dialus (Florusthion Conellower) 446. 222 Isopogon dialus (Florusthion Conellower) 447. 5817 (Solropis sp. Shark Bey (M.E. Trudgen 7170) 450. 5808 Isopogon ineares 449. 5809 Isopogon adenantholose (Spider Conellower) 451. 14627 (Solropis sp. Shark Bey (M.E. Trudgen 7170)						
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	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Que Area
453.		Jacksonia fasciculata			
454.		Jacksonia foliosa			
455. 456.		Jacksonia hakeoides Jacksonia restioides			
457.		Jacksonia sternbergiana (Stinkwood, Kapur)			
458.		Juncus bufonius (Toad Rush)	Y		
459.		Juncus radula			
460.	1195	Juncus subsecundus (Finger Rush)			
461.	4044	Kennedia prostrata (Scarlet Runner)			
462.	5835	Kunzea micrantha			
463.	17505	Kunzea praestans			
464.		Lachenalia aloides	Υ		
465.		Lachnostachys eriobotrya (Lambswool)			
466.		Lachnostachys ferruginea (Rusty Lambstail)			
467.		Lagenophora huegelii	.,		
468. 469.		Lamarckia aurea (Goldentop)	Y		
409. 470.		Lambertia multiflora var. multiflora Lasiopetalum glutinosum subsp. latifolium			
471.		Lasiopetalum guunosum subsp. latiiolium Lawrencella rosea			
472.		Laxmannia omnifertilis			
473.		Lechenaultia biloba (Blue Leschenaultia)			
474.		Lechenaultia linarioides (Yellow Leschenaultia)			
475.		Lechenaultia stenosepala (Narrow-sepaled Leschenaultia)			
476.	7590	Lechenaultia tubiflora (Heath Leschenaultia)			
477.	44490	Leontodon rhagadioloides	Υ		
478.	3018	Lepidium africanum (Rubble Peppercress)	Υ		
479.	3021	Lepidium bonariense (Peppercress)	Y		
480.	1073	Lepidobolus chaetocephalus (Bristle-headed Chaff Rush)			
481.		Lepidobolus preissianus			
482.		Lepidobolus preissianus subsp. volubilis			
483.		Lepidosperma apricola			
484.		Lepidosperma leptostachyum			
485.		Lepidosperma pruinosum			
486. 487.		Lepidosperma pubisquameum			
488.	344	Lepidosperma scabrum Lepidosperma sp.			
489.	33279	Lepidosperma sp. Bandalup Scabrid (N. Evelegh 10798)			
490.		Lepidosperma sp. P1 small head (M.D. Tindale 166A)			
491.		Lepidosperma tenue			
492.		Leptomeria empetriformis			
493.	5847	Leptospermum erubescens (Roadside Teatree)			
494.	5857	Leptospermum spinescens			
495.	6369	Leucopogon cinereus			
496.	6374	Leucopogon conostephioides			
497.	6401	Leucopogon hamulosus			
498.		Leucopogon oldfieldii			
499.		Leucopogon oliganthus			
500.		Leucopogon sp. Northern Scarp (M. Hislop 2233)			
501.		Leucopogon sprengelioides			
502. 503.		Levenhookia leptantha (Trumpet Stylewort)	V		
503. 504.	4/8	Lolium rigidum (Wimmera Ryegrass) Lolium sp.	Υ		
504. 505.	1224	Lomandra collina (Pale Mat Rush)			
506.		Lomandra effusa (Scented Matrush)			
507.		Lomandra hastilis			
508.		Lomandra micrantha subsp. micrantha			
509.		Lomandra nutans			
510.		Lomandra sp.			
511.	36375	Lysimachia arvensis (Pimpernel)	Υ		
512.	2550	Maireana marginata			
513.	4074	Medicago laciniata (Cutleaf Medic)	Υ		
514.		Medicago minima (Small Burr Medic)	Υ		
515.		Melaleuca acutifolia			
516.		Melaleuca adnata			
517.		Melaleuca aspalathoides			
518.		Melaleuca brevifolia			
519.		Melaleuca carrii			
E20	5888	Melaleuca ciliosa			
520.	=	Adultula and a constant			
520. 521. 522.		Melaleuca concreta Melaleuca depressa			







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
523.		Melaleuca dichroma			
524.		Melaleuca lateriflora (Gorada)			
525. 526.		Melaleuca leuropoma Melaleuca marginata			
527.		Melaleuca orbicularis			
528.		Melaleuca radula (Graceful Honeymyrtle)			
529.		Melaleuca rhaphiophylla (Swamp Paperbark)			
530.		Melaleuca seriata			
531.	5972	Melaleuca strobophylla			
532.	5978	Melaleuca teretifolia (Banbar)			
533.		Melaleuca trichophylla			
534.		Melaleuca viminea (Mohan)			
535. 536.		Melaleuca viminea subsp. viminea			
537.		Microcorys longifolia Microcorys obovata			
538.		Microlaena stipoides (Weeping Grass)			
539.		Microtis alboviridis			
540.	15419	Microtis media subsp. media			
541.	1660	Microtis orbicularis (Dark Mignonette Orchid)			
542.	8105	Millotia myosotidifolia			
543.		Millotia tenuifolia var. tenuifolia (Soft Millotia)			
544.		Mirbelia floribunda (Purple Mirbelia)			
545.		Mirbelia spinosa	,		
546. 547.		Monoculus monstrosus Monotaxis grandiflora var. grandiflora	Υ		
548.		Moraea miniata (Two-leaf Cape Tulip)	Υ		
549.		Moraea setifolia	Y		
550.		Muehlenbeckia adpressa (Climbing Lignum)	•		
551.		Muehlenbeckia polybotrya			
552.	17925	Myriocephalus oldfieldii			
553.	492	Neurachne alopecuroidea (Foxtail Mulga Grass)			
554.	2401	Nuytsia floribunda (Christmas Tree, Mudja)			
555.		Olearia sp. Eremicola (Diels & Pritzel s.n. PERTH 00449628)			
556.		Oncosiphon piluliferum (Globe Chamomile)	Υ		
557. 558.		Opercularia vaginata (Dog Weed) Omithopus compressus (Yellow Serradella)	Υ		
559.		Omithopus sativus (French Serradella)	Y		
560.		Orthrosanthus laxus var. gramineus (Grass-leaved Orthrosanthus)	•		
561.		Oxalis exilis			
562.	4356	Oxalis pes-caprae (Soursob)	Υ		
563.	516	Parapholis incurva (Coast Barbgrass)	Υ		
564.	7089	Parentucellia latifolia (Common Bartsia)	Υ		
565.		Patersonia juncea (Rush Leaved Patersonia)			
566.		Patersonia occidentalis var. occidentalis			
567. 568.		Pauridia occidentalis var. occidentalis Pentameris airoides (False Hairgrass)	Υ		
569.		Pentameris airoides (Paise Hairgrass) Pentameris airoides subsp. airoides	Y		
570.		Pentameris pallida	Y		
571.		Pericalymma spongiocaule			
572.	2258	Persoonia comata			
573.		Persoonia trinervis			
574.		Petrophile brevifolia			
575.		Petrophile divaricata			
576.		Petrophile drummondii			
577. 578.		Petrophile recurva Petrophile seminuda			
576. 579.		Petrophile serruriae			
580.		Petrophile striata			
581.		Petrorhagia dubia	Υ		
		Photography (Lancar Caraca)	Υ		
582.		Phalaris minor (Lesser Canary Grass)	•		
582. 583.	551 20460	Pheladenia deformis	·		
583. 584.	551 20460 18529	Pheladenia deformis Philotheca spicata (Pepper and Salt)	·		
583. 584. 585.	551 20460 18529 16825	Pheladenia deformis Philotheca spicata (Pepper and Salt) Phyllangium divergens	·		
583. 584. 585. 586.	551 20460 18529 16825 16824	Pheladenia deformis Philotheca spicata (Pepper and Salt) Phyllangium divergens Phyllangium sulcatum	·		
583. 584. 585. 586. 587.	551 20460 18529 16825 16824 4675	Pheladenia deformis Philotheca spicata (Pepper and Salt) Phyllangium divergens Phyllangium sulcatum Phyllanthus calycinus (False Boronia)	·		
583. 584. 585. 586. 587. 588.	551 20460 18529 16825 16824 4675 6797	Pheladenia deformis Philotheca spicata (Pepper and Salt) Phyllangium divergens Phyllangium sulcatum Phyllanthus calycinus (False Boronia) Physopsis spicata (Hill River Lambstail)	·		
583. 584. 585. 586. 587. 588.	551 20460 18529 16825 16824 4675 6797 5231	Pheladenia deformis Philotheca spicata (Pepper and Salt) Phyllangium divergens Phyllangium sulcatum Phyllanthus calycinus (False Boronia) Physopsis spicata (Hill River Lambstail) Pimelea angustifolia (Narrow-leaved Pimelea)	·		
583. 584. 585. 586. 587.	551 20460 18529 16825 16824 4675 6797 5231 5244	Pheladenia deformis Philotheca spicata (Pepper and Salt) Phyllangium divergens Phyllangium sulcatum Phyllanthus calycinus (False Boronia) Physopsis spicata (Hill River Lambstail)			







	Name ID	Species Name	Naturalised	Conservation Code	Endemic To Q Area
593.		Pimelea sulphurea (Yellow Banjine)			
594.		Plantago debilis			
595. 596.		Platysace cirrosa (Karna) Poa drummondiana (Knotted Poa)			
597.		Podolepis aristata subsp. aristata			
598.		Podolepis capillaris (Wiry Podolepis)			
599.		Podolepis gracilis (Slender Podolepis)			
600.		Podolepis lessonii			
601.		Polypogon monspeliensis (Annual Beardgrass)	Υ		
602.		Prasophyllum cyphochilum (Pouched Leek Orchid)			
603.		Prasophyllum gracile			
604.	4725	Psammomoya choretroides			
605.	8189	Pseudognaphalium luteoalbum (Jersey Cudweed)			
606.	41651	Pteridium esculentum subsp. esculentum			
607.	13255	Pterochaeta paniculata			
608.	45355	Pterostylis exserta			
609.	10778	Pterostylis picta			
610.	45343	Pterostylis platypetala			
611.	1696	Pterostylis sargentii (Frog Greenhood)			
612.		Pterostylis scabra (Bronze Shell Orchid)			
613.		Pterostylis scitula			
614.		Pterostylis spathulata			
615.		Pterostylis vittata (Banded Greenhood)			
616.		Ptilotus declinatus (Curved Mulla Mulla)			
617.		Ptilotus drummondii (Narrowleaf Mulla Mulla)			
618.		Ptilotus gaudichaudii			
619.		Ptilotus sericostachyus subsp. sericostachyus			
620.		Ptilotus spathulatus			
621.		Ptilotus stirlingii subsp. stirlingii			
622. 623.		Quoya dilatata Ougus verbassina (Colden Ruch)			
624.		Quoya verbascina (Golden Bush) Regelia ciliata			
625.		Rhagodia preissii subsp. obovata			
626.		Rhagodia preissii subsp. preissii			
627.		Rhodanthe chlorocephala subsp. rosea			
628.		Rhodanthe citrina			
629.	13294	Rhodanthe laevis			
630.	13234	Rhodanthe manglesii			
631.	13296	Rhodanthe polycephala			
632.	13309	Rhodanthe spicata			
633.	19942	Ricinocarpos undulatus			
634.	4704	Ricinocarpos velutinus			
635.	1556	Romulea rosea (Guildford Grass)	Υ		
636.	44608	Rosulabryum billarderii			
637.	32429	Rosulabryum torquescens			
638.		Rumex hypogaeus	Υ		
639.		Rumex pulcher subsp. woodsii	Y		
640.		Ruppia megacarpa			
641.		Ruppia polycarpa			
642.		Rytidosperma acerosum			
643. 844		Rytidosperma caespitosum			
644. 645.		Rytidosperma setaceum Santalum acuminatum (Quandona Marraga)			
646.		Santalum acuminatum (Quandong, Warnga) Santalum spicatum (Sandalwood, Wilarak)			
647.		Scaevola glandulifera (Viscid Hand-flower)			
648.		Scaevola humifusa (Procumbent Scaevola)			
649.		Scaevola phlebopetala (Velvet Fanflower)			
650.		Scaevola platyphylla (Broad-leaved Fanflower)			
651.		Scaevola repens			
652.		Scaevola spinescens (Currant Bush, Maroon)			
653.		Schoenus clandestinus			
654.		Schoenus humilis			
655.	998	Schoenus latitans			
656.	1018	Schoenus subfascicularis			
657.	6031	Scholtzia drummondii			
658.	49114	Scholtzia halophila subsp. halophila			
659.	6037	Scholtzia parviflora			
660.	2609	Sclerolaena diacantha (Grey Copperburr)			
661.	12276	Senna artemisioides subsp. filifolia			
		Seringia integrifolia (Common firebush)			







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
663.	46824	Seringia velutina (Velvet firebush)			
664.	15972	Silene gallica var. gallica	Υ		
665.		Sinapis alba (White Mustard)	Υ		
666.		Sinapis arvensis (Charlock)	Υ		
667.		Solanum lasiophyllum (Flannel Bush, Mindjulu) Solanum pigrum (Flank Barry Nightshada)			
668. 669.		Solanum nigrum (Black Berry Nightshade) Solanum oldfieldii	Υ		
670.		Sonchus oleraceus (Common Sowthistle)	Υ		
671.		Spergularia bocconei	Y		
672.		Spergularia marina			
673.	2915	Spergularia rubra (Sand Spurry)	Υ		
674.	4205	Sphaerolobium linophyllum			
675.	4714	Stachystemon brachyphyllus			
676.		Stackhousia pubescens (Downy Stackhousia)			
677.		Stellaria media (Chickweed)	Υ		
678.		Stenanthemum notiale subsp. notiale			
679. 680.		Stenanthemum pomaderroides Stenopetalum gracile			
681.		Stylidium adpressum (Trigger-on-stilts)			
682.		Stylidium androsaceum			
683.		Stylidium caricifolium (Milkmaids)			
684.	40944	Stylidium decipiens			
685.	7713	Stylidium dichotomum (Pins-and-needles)			
686.		Stylidium eriopodum			
687.		Stylidium leptophyllum (Needle-leaved Triggerplant)			
688.		Stylidium miniatum (Pink Butterfly Triggerplant)			
689. 690.		Stylidium petiolare (Horn Triggerplant) Stylidium roseoalatum (Pink-wing Triggerplant)			
691.		Stylidium schoenoides (Cow Kicks)			
692.		Stylidium septentrionale			
693.		Stylidium sp.			
694.	20608	Stylidium stenosepalum			
695.	9304	Stylidium zeicolor (Maize Triggerplant)			
696.	3181	Stylobasium australe			
697.		Stypandra glauca (Blind Grass)			
698.		Synaphea spinulosa subsp. spinulosa	V		
699. 700.		Tamarix parviflora Tecticornia halocnemoides (Shrubby Samphire)	Y		
700.		Tecticornia pergranulata subsp. pergranulata (Blackseed Samphire)			
702.		Templetonia sulcata (Centipede Bush)			
703.		Tetrapora preissiana			
704.	4528	Tetratheca confertifolia			
705.	1701	Thelymitra antennifera (Vanilla Orchid)			
706.	10856	Thelymitra benthamiana (Leopard Orchid)			
707.		Thelymitra maculata			
708.		Thelymitra spiralis (Curlylocks) Thelymitra village (Curlocks)			
709. 710.		Thelymitra villosa (Custard Orchid) Thomasia grandiflora (Large Flowered Thomasia)			
710. 711.		Thryptomene hyporhytis			
711.		Thryptomene mucronulata			
713.		Thryptomene racemulosa			
714.	1338	Thysanotus manglesianus (Fringed Lily)			
715.	1339	Thysanotus multiflorus (Many-flowered Fringe Lily)			
716.		Thysanotus patersonii			
717.		Thysanotus triandrus			
718.		Tolpis barbata (Yellow Hawkweed)	Υ		
719. 720.		Trachymene cyanopetala Trachymene ornata (Spongefruit)			
720.		Trachymene pilosa (Native Parsnip)			
722.		Tribonanthes longipetala (Branching Tiurndin)			
723.		Tribulus terrestris (Caltrop)	Υ		
724.	17542	Trifolium arvense var. arvense	Υ		
725.	17115	Trifolium repens var. repens	Υ		
726.		Triglochin calcitrapa			
727.		Triglochin centrocarpa			
728.		Triglochin stowardii			
729. 730.		Triodia danthonioides Tripterococcus brunonis (Winged Stackhousia)			
730.		Triticum aestivum (Wheat)	Υ		
732.		Trymalium angustifolium	,		
			Department	of Blodiversity,	WESTERN



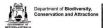




	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
733.	4840	Trymalium daphnifolium			
734.	13479	Trymalium ledifolium var. rosmarinifolium			
735.	4844	Trymalium urceolare			
736.	8255	Ursinia anthemoides (Ursinia)	Υ		
737.	38388	Ursinia anthemoides subsp. anthemoides	Υ		
738.	7656	Velleia cycnopotamica			
739.	7107	Verbascum virgatum (Twiggy Mullein)	Υ		
740.	15725	Verbesina encelioides	Υ		
741.	7666	Verreauxia reinwardtii (Common Verreauxia)			
742.	12395	Verticordia bifimbriata			
743.	6071	Verticordia brachypoda			
744.	12402	Verticordia chrysanthella			
745.	12411	Verticordia densiflora var. cespitosa			
746.	15432	Verticordia densiflora var. densiflora			
747.	12422	Verticordia eriocephala (Common Cauliflower)			
748.	6083	Verticordia grandis (Scarlet Featherflower)			
749.	12430	Verticordia huegelii var. stylosa			
750.	10822	Verticordia nobilis			
751.	6105	Verticordia patens			
752.	6107	Verticordia pennigera			
753.	6109	Verticordia picta (Painted Featherflower)			
754.	12052	Vulpia myuros forma megalura	Υ		
755.	33101	Vulpia myuros forma myuros	Υ		
756.	7386	Wahlenbergia gracilenta (Annual Bluebell)			
757.	7389	Wahlenbergia preissii			
758.		Wahlenbergia sp.			
759.	13328	Waitzia nitida			
760.	6659	Wilsonia humilis (Silky Wilsonia)			
761.	1393	Wurmbea dilatata			
762.	1395	Wurmbea drummondii (York Gum Nancy)			
763.	1401	Wurmbea pygmaea			
764.	8287	Xanthium spinosum (Bathurst Burr, Common Cockleburr, Spiny Cockleburr, Spiny	Υ		
		Clotburr)	'		
765.	6287	Xanthosia fruticulosa			
766.	6289	Xanthosia huegelii			
767.	2330	Xylomelum angustifolium (Sandplain Woody Pear)			
768.	7113	Zaluzianskya divaricata (Spreading Night Phlox)	Υ		

- 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 3
 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.



NatureMap Species Report

Created By Colleen McDonald on 22/10/2019

Kingdom Animalia
Current Names Only Yes
Core Datasets Only Yes

Method 'By Circle'

Centre 116° 01' 03" E,30° 39' 59" S

Buffer 40km Group By Family

Family	Species	Records
Acanthizidae	12	562
Accipitridae	14	122
Actinopodidae	2 2	4
Aegothelidae Agamidae	4	18
Anatidae	13	299
Araneidae	7	18
Ardeidae	5	81
Artamidae	4	52
Bdelloidea	2	2
Boidae Brachionidae	3 4	5 8
Burhinidae	1	4
Burramyidae	i	3
Buthidae	1	2
Cacatuidae	1	164
Caenidae	1 2	1
Campephagidae Caprimulgidae	1	115 2
Casuariidae	; 1	6
Ceinidae	i	4
Centropagidae	3	6
Ceratopogonidae	5	9
Charadriidae	5	55
Chernetidae	1	1
Chironomidae	1 15	6 38
Chironomidae Chydoridae	4	6
Coenagrionidae	2	6
Columbidae	5	150
Corduliidae	2	6
Corixidae	5	13
Corvidae	4	250
Cracticidae Cuculidae	4 6	339 40
Culcidae	1	2
Cyclopidae	4	11
Cyprididae	10	17
Cypridopsidae	1	4
Daphniidae	4	. 4
Dasyuridae	5	10
Dicaeidae Dicruridae	1 5	16 401
Diplodactylidae	6	25
Dytiscidae	12	27
Echeneidae	1	1
Ecnomidae	2	5
Elapidae	11	106
Ephydridae Estrilidae	1 1	1
Falconidae	7	81
Galaxiidae	1	4
Gekkonidae	4	33
Gnaphosidae	1	2
Gobiesocidae	1	3
Gobiidae	2	_3
Halcyonidae	4	76
Haliplidae Henicopidae	1 1	2
Hexarthridae	1	2
Hirundinidae	4	216
Hydraenidae	3	4
Hydrophilidae	8	16
Hylidae	1	. 1
Idiopidae	3	18
Ilyocyprididae Ixodidae	1 1	4
Lamponidae	1	1
Laridae	3	6
Leptoceridae	4	10
Lestidae	3	10
Libellulidae	1	2
Limnodynastidae	5	23
Lycosidae	7	20
Macropodidae	1	9

Department of Biodiversity, Conservation and Attraction



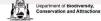


TOTAL	459	5911
Zosteropidae	1	97
Zodariidae	2	2
Withiidae	1	2
Vespertilionidae	2	5
Varanidae	1	3
Urodacidae	3	25
Tytonidae	i	5
Typhlopidae	1	1
Turnicidae	2	6
Threskiornithidae Trombidiformes	2 1	40 2
Theridiidae	1	2
Tettigoniidae	1	1
Testudinellidae	1	1
Tenuipalpidae	1	10
Tarsipedidae	1	6
Sylviidae	2	2
Stratiomyidae	1	5
Sididae	i	2
Scutigeridae	1	23 1
Scolopacidae Scolopendridae	8	23
Scincidae Scalopacidae	13 3	67 7
Salticidae	3	3
Recurvirostridae	4	30
Rallidae	7	20
Pyralidae	1_	_1
Pygopodidae	6	30
Psittacidae	23	601
Procellariidae	1	1
Pomatostomidae	2	13
Podicipedidae	3	68
Podargidae	2	7
Planorbidae	1	1
Pionidae	1	2
Phasianidae	3	5
Phalacrocoracidae	4	23
Petroicidae	5	116
Peripatopsidae	i	2
Pelecanidae	1	107
Pardalotidae	2	167
Pachycephalidae	5	199
Oxyopidae	1	2
Otididae	1	1
Oniscidae	1	1
Notonectidae Oligochaeta	5 1	10 2
Nicodamidae	1	2
Neosittidae	2	17
Nemesiidae	1	6
Nematoda	1	5
Naididae	1	1
Myobatrachidae	4	35
Muridae	5	9
Motacillidae	1	4
Micropholcommatidae	1	2
Mesoveliidae	i	i
Mesostigmata	1	1
Meropidae	1	23
Meliphagidae	17	495
Maluridae Megapodiidae	1	1
	7	103





1. 2400 Academic appoint pleased allacit Promission (indexs Promission)		Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
2. 2428 Anathria promotive (**Protonice*)	Acanthizidae					
1.	1.	24260	Acanthiza apicalis (Broad-tailed Thornbill, Inland Thornbill)			
Academic Notes Academic acquisite (Chestrolinamond Transhill)	2.	24261	Acanthiza chrysorrhoa (Yellow-rumped Thornbill)			
1.	3.	24262	Acanthiza inornata (Western Thornbill)			
1.			Acanthiza lineata			
1. 2427 Carpono Basica subson, Dasica (Nesterin Geopone) 2. 2427 Physician Casal (No, Circularivers, 1974 (1974) 2. 2427 Sericonia Sortina Subson, Inacistaci (White-Indowed Scrubmen) 2. 2427 Sericonia Sortina Subson, Inacistaci (White-Indowed Scrubmen) 2. 2428 Sericonia Sortina Subson, Inacistaci (White-Indowed Scrubmen) 3. 2535 Accopitation Communication (Collinea Sparametricas) 3. 2535 Accopitation Collinea Subson, Indonesia (Collinea Sparametricas) 4. 2428 Accopitation Subson, Indonesia (Collinea Sparametricas) 4. 2429 Acquitation Collinea Subson, Indonesia (Collinea Sparametricas) 4. 2436 Carca septemina (Servany Harrier) 4. 2437 Acquitation (Collinea Septemina Servany Harrier) 4. 2437 Acquitation (Collinea Septemina Servany Harrier) 4. 2438 Acquitation (Servany Harrier) 4. 2439 Acquitation (Servany Harrier) 4. 2431 Acquitation (Collinea Septemina Servany Harrier) 4. 2431 Acquitation (Collinea Servany Harri						
8. 2427 Inflication 1. 1. 1. 1. 1. 1. 1. 1						
9						
11. 2554 Sections frontains (White-Drivered Scrubwere)						
11. 24279 Sections formatics subsign, maculaters (White-browed Sundwaren)						
Accipitridas 1. 29535 Accipiter cirrocephalva (Collend Sparronhaws) 1. 4. 29535 Accipiter cirrocephalva (Collend Sparronhaws) 1. 5. 29535 Accipiter cirrocephalva (Collend Sparronhaws) 1. 6. 29525 Accipiter cirrocephalva (Souro Genhavs) 1. 7. 29535 Accipiter cirrocephalva (Souro Genhavs) 1. 8. 29535 Accipiter cirrocephalva (Souro Genhavs) 1. 9. 29535 Accipiter cirrocephalva (Sour						
13. 2555 Accipiter cirrocephalus (Collared Sparrowhaws)						
13. 25555 Acquired romaphelas (Collared Sparmonhaws)	12.	30946	Sinicioniis bievirosuis (Weebiii)			
1.1.	Accipitridae					
15.	13.	25535	Accipiter cirrocephalus (Collared Sparrowhawk)			
11	14.	24281	Accipiter cirrocephalus subsp. cirrocephalus (Collared Sparrowhawk)			
11. A 2428 Cruca agrorimans (Swamp Marriery) 15. 15. 14.248 Cruca agrorimans (Swamp Marriery) 15. 15. 14.248 Cruca agrorimans (Swamp Marriery) 15. 15.	15.	25536	Accipiter fasciatus (Brown Goshawk)			
18.	16.	24282	Accipiter fasciatus subsp. fasciatus (Brown Goshawk)			
19. 24286 Circus assimilis (Sported Harrier)	17.	24285	Aquila audax (Wedge-tailed Eagle)			
20.	18.					
21.1 25.54 Barrus caeruleus (Black-shouldered Kite)	19.	24289	Circus assimilis (Spotted Harrier)			
24200 Elmus caeruleus subsp. avillaris (Australian Black-shouldered Kile)	20.		Elanus axillaris			
2.2. 24205 Hallastur sphenurus (Whistling Kite)	21.	25540	Elanus caeruleus (Black-shouldered Kite)			
24.		24290	Elanus caeruleus subsp. axillaris (Australian Black-shouldered Kite)			
25. 47955 hieraraetus morphnoides (Little Eagle) 26. 26542 Mivus migrans (Black Kite) Actinopodicals 7. Missulena granulosa 27. Missulena occatoria Aegothelidae 9. 25544 Aegothelies cristatus (Australian Owlet-nightjär) 29. 25544 Aegothelies cristatus subsp. cristatus (Australian Owlet-nightjär) 31. 30899 Ctenophorus adelaidensis (Southern Heath Dragon, Western Heath Dragon) 32. 24956 Ctenophorus adelaidensis (Southern Heath Dragon) 33. 2510 Popona minor obusts, minor (Dwalf Bearded Dragon) 33. 2510 Popona minor obusts, minor (Dwalf Bearded Dragon) 34. 24917 Popona minor subsp. minor (Dwalf Bearded Dragon) 35. 24310 Anas castanea (Chestrul Teal) 36. 24312 Anas gracilis (Grap Teal) 37. 24313 Anas phyrhyrchos (Maltard) 38. 24315 Anas supercliosa (Peallic Black Duck) 40. 24313 Anas phyrhyrchos (Maltard) 41. 24319 Biziwa Ibotat (Miski Duck) 42. 24321 Chenchentel Jubata (Australian Wood Duck) 43. 24322 Oyura australis (Blue-biled Duck) 44. 24323 Total auto	23.	24295	Haliastur sphenurus (Whistling Kite)			
Actinopoliciae	24.	24296	Hamirostra isura (Square-tailed Kite)			
Actinopodiclae 27. Missulena granulosa 28. Missulena occatoria Aegothelidae 29. 25544 Aegotheles cristatus (Australian Owlet-nightjar) 29. 30. 24301 Aegotheles cristatus subsp. cristatus (Australian Owlet-nightjar) Agamidae 31. 30899 Ctenophorus adelaidensis (Southern Heath Dragon) 32. 24886 Ctenophorus adelaidensis (Southern Heath Dragon) 33. 32. 25510 Popona minor (Dwart Basarded Dragon) 34. 24907 Pogona minor subsp. minor (Dwart Basarded Dragon) 35. 24310 Anas castanea (Chestrut Teal) 36. 24312 Anas gracilis (Grey Teal) 37. 24313 Anas platyhrynchos (Malterd) 38. 24312 Anas gracilis (Grey Teal) 38. 24313 Anas platyhrynchosis (Australian Shoveler) 39. 24316 Anas suspercillosa (Pacific Black Duck) 40. 24318 Aythya austratis (Harthead) 41. 24319 Bizitus aftatus (Black Swar) 44. 2432 (Syous austratis (Black Swar) 44. 2432 (Syous austratis (Black Swar) 45. 2432 (Syous austratis (Black Swar) 46. 2432 (Syous austratis (Black Buck) 47. 2433 (Tadorna taevosa (Freded Duck) 48. Araneus capthonis (Australian Shekluck, Mountain Duck) Araneidae 48. Araneus cyphoxis 49. Araneus ebumeiventris 51. Arigoe protensa 53. Backbootwia collina 54. Austracantha minax 53. Backbootwia collina 54. Aphla audosavia (Great egret. white egret) 55. 2434 Ardea modesta (great egret. white egret) 55. 2434 Ardea modesta (great egret. white egret) 55. 2434 Ardea modesta (great egret. white egret) 55. 2434 Ardea noveabollandiae (Witte-faced Heron)						
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29. 254.4 Aegotheles cristatus (Australian Owlet-nightjar) 24301 Aegotheles cristatus subsp. cristatus (Australian Owlet-nightjar)						
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	56.	24340	Ardea novaehollandiae (White-faced Heron)	. 60.		WESTER







N	lame ID	Species Name	Naturalised	Conservation	n Code	¹ Endemic To Query Area
57. 58.	24341	Ardea pacifica (White-necked Heron) Egretta novaehollandiae				
59.	25564	Nycticorax caledonicus (Rufous Night Heron)				
		,,,,,,				
Artamidae	05500	Advantage of Charles Constitution (Inc.)				
60.	25566	Artamus cinereus (Black-faced Woodswallow)				
61. 62.	24252	Artamus cinereus subsp. cinereus Artamus cyanopterus (Dusky Woodswallow)				
63.		Artamus cyanopierus (Dusky Woodswallow) Artamus personatus (Masked Woodswallow)				
00.	24000	Artanius personatus (inaskeu Woodswallow)				
Bdelloidea						
64.		Bdelloidea sp.				
65.		Bdelloidea sp. 2:2				
Boidae						
66.	25241	Antaresia stimsoni subsp. stimsoni (Stimson's Python)				
67.	25236	Aspidites ramsayi (Woma)				
68.	25240	Morelia spilota subsp. imbricata (Carpet Python)				
Brachionidae						
69.		Brachionus cf. plicatilis (SAP)				
70.		Brachionus plicatilis s.l.				
70.		Brachionus urceolaris s.i. Brachionus urceolaris s.i.				
72.		Keratella australis				
Burhinidae						
73.	24359	Burhinus grallarius (Bush Stone-curlew)				
Burramyidae	24006	Corporately a page in a superior of Manager Programs account Attendands				
74.	24000	Cercartetus concinnus (Western Pygmy-possum, Mundarda)				
Buthidae						
75.		Urodacus hartmeyeri				
Cacatuidae						
76.		Eolophus roseicapillus				
Caenidae						
77.		Tasmanocoenis tillyardi				
Campanhagida						
Campephagida 78.		Coracina novaehollandiae (Black-faced Cuckoo-shrike)				
79.		Lalage tricolor (White-winged Triller)				
	24007	Landge thousan (Trine Winged Trine)				
Caprimulgidae 80.	24368	Eurostopodus argus (Spotted Nightjar)				
Casuariidae						
81.	24470	Dromaius novaehollandiae (Emu)				
01.	24470	Diomaius novaenolianulae (Emu)				
Ceinidae 82.		Ceinidae sp.				
Centropagidae						
83.		Boeckella triarticulata				
84.		Calamoecia ampulla				
85.		Calamoecia sp. 342 (ampulla variant) (CB)				
		. , , , , , , , , , , , , , , , , ,				
Ceratopogonid	ae	2				
86.		Bezzia sp. 1 (SAP)				
87.		Ceratopogonidae sp.				
88.		Culicoides sp.				
89.		Forcypomyia sp.				
90.		Monohelea sp. 3 (SAP)				
Charadriidae						
91.	24377	Charadrius ruficapillus (Red-capped Plover)				
92.	47937	Elseyornis melanops (Black-fronted Dotterel)				
93.	24379	Erythrogonys cinctus (Red-kneed Dotterel)				
94.	24380	Peltohyas australis (Inland Dotterel)				
95.	24386	Vanellus tricolor (Banded Lapwing)				
Chernetidae						
96.		Troglochernes dewae				
Chiltoniidae						
97.		Austrochiltonia subtenuis				
Chironomidae						
98.		Chironominae sp.				
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Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Que Area
	Chironomus aff. alternans (V24) (CB) Cladopelma curtivalva			
	Orthocladiinae sp.			
	·			
	Procladius villosimanus			
	Tanvpodinae sp.			
	•			
	Tanyta da in Signiloda (d. 1.)			
	Alona of rigidicaudis s.l. (CR, but may be multiple son.)			
	Pieuroxus inermis			
ie				
	Coenagrionidae sp.			
	Xanthagrion erythroneurum			
04000	Columba livia (Domostia Discon)	V		
		Υ		
25590	Streptopelia senegalensis (Laughing Turtle-Dove)	Y		
	Corduliidae sp.			
	Hemicordulia tau			
	Agraptocorixa eurynome			
	Agraptocorixa parvipunctata			
	Corixidae sp.			
	Micronecta robusta			
	Sigara mullaka			
24416	Corvus bennetti (Little Crow)			
20090	Colvas ona (Torresian Crow)			
24420	Cracticus nigrogularis (Pied Butcherbird)			
25595	Cracticus tibicen (Australian Magpie)			
24422	Cracticus tibicen subsp. dorsalis (White-backed Magpie)			
25596	Cracticus torquatus (Grey Butcherbird)			
	Out of the West of the Control of th			
	·			
24434	Chrysococcyx osculans (Black-eared Cuckoo)			
	Culicidae sp.			
	Apocyclops dengizicus			
	Mesocyclops brooksi			
	modely and pour and			
	Metacyclons/Pescecyclons sn			
	Metacyclops/Pescecyclops sp.			
	Metacyclops/Pescecyclops sp. Pescecyclops sp. 442=462=465=CB2 (salinarum in Morton)			
	Pescecyclops sp. 442=462=465=CB2 (salinarum in Morton)			
	24399 24404 24407 24409 25590 24417 25593 24420 25595 24422 25596 25598 24427 42307 24431 24432	Cladopelma curtivalva Cryptochironomus griseidorsum Dicrotendipes conjunctus Kiefferulus intertinctus Orthociadiinae sp. Paramerina levidensis Polypedilum nubifer Procladius paludicola Procladius villosimanus Tanypodinae sp. Tanytarsus buschtarsis Tanytarsus fuschtorax/semibarbitarsus Tanytarsus fuschtorax/semibarbitarsus Tanytarsus nr bispinosus (SAP) Alona cf. rigidicaudis s.l. (CB, but may be multiple spp.) Alona rigidicaudis Leydigia cf. leydigii (SAP) Pleuroxus inermis 18 Coenagrionidae sp. Xanthagrion erythroneurum 24399 Columba livia (Domestic Pigeon) 24404 Geophaps plumifera (Spinifex Pigeon) 24407 Ocyphaps olphotes (Crested Pigeon) 24409 Phaps chalcoptera (Common Bronzewing) 25590 Streptopelia senegalensis (Laughing Turtle-Dove) Corduliidae sp. Hemicordulia tau Agraptocorixa eurynome Agraptocorixa eurynome Agraptocorixa eurynome Agraptocorixa eurynome Agraptocorixa eurynome Agraptocorixa sparvipunctata Corixidae sp. Micronecta robusta Sigara mullaka 24416 Corvus bennetti (Little Crow) 25592 Corvus coronoides (Australian Raven) 24417 Corvus coronoides (Australian Raven) 24593 Corvus coronoides subsp. perplexus (Australian Raven) 24420 Cracticus tibicen (Australian Magpie) 25596 Cracticus tibicen (Australian Magpie) 25597 Cracticus tibicen (Australian Magpie) 25598 Cracticus tibicen subsp. dorsalis (White-backed Magpie) 25599 Cracticus tibicen subsp. borsalis (White-backed Magpie) 25599 Cracticus tibicen subsp. borsalis (White-backed Magpie) 25599 Cracticus tibicen subsp. perplexus (Australian Roven) 26599 Cacomantis flabeliiformis (Fan-tailed Cuckoo) 24420 Caccomantis flabeliiformis (Fan-tailed Cuckoo) 24432 Chrysococcyx lucidies subsp. plagopus (Shining Bronze Cuckoo) 24432 Chrysococcyx lucidies subsp. plagopus (Shining Bronze Cuckoo) 24434 Chrysococcyx lucidies Stronze Cuckoo)	Chironomus aff. alemans (V24) (CB) Cladoperma curinalva Cryptochironomus griseiorosum Dicrotendipes conjunctus Kiefferulus interfrictus Orthocalinae sp. Paramerina levidorais Polypedrum nubiler Procladius paludicole Procladius villosimanus Tarnyparsus barbitarius Tarnytarsus barbitarius Tarnytarsus barbitarius Tarnytarsus nr bispinosus (SAP) Alone d. rigidicaudis s.i. (CB, but mey be multiple spp.) Alona rigidicaudis Leydigie d. leydigi (SAP) Pieuroxus inermis 10 Coenagrionidae sp. Xanthagrion erythroneurum 24399 Columba livia (Domestic Pigeon) 24404 Geophaps plumitera (Spinitex Poen) 24405 Ocyphaps lophotes (Crested Pigeon) 24406 Papas chalcoptera (Common Bronzewing) 25590 Streptopella senegalensis (Laughing Turtle-Dove) Y Cordulidae sp. Hemicordulia tau Agraptocoxiva parvipunctata Corixidae sp. Micronecta robusta Sigara multika 24416 Corvus bennetti (Little Crow) 25592 Corvus coronoides (Australian Raven) 24417 Corvus coronoides subsp. perplexus (Australian Raven) 24420 Cracticus sibicen subsp. perplexus (Australian Raven) 25593 Crorectous trioren Cromy 24421 Corvus coronoides (Australian Magpie) 25595 Cracticus sibicen subsp. perplexus (Australian Raven) 25595 Cracticus sibicen subsp. perplexus (Australian Gen-tailed Cuckoo) 24421 Cacomantis flabeliformis (Fan-tailed Cuckoo) 24422 Cracticus trioren subsp. perplexus (Australian Gen-tailed Cuckoo) 24431 Chrysococcyx basalis (Horsfield's Bronze Cuckoo) 24432 Chrysococcyx basalis (Horsfield's Bronze Cuckoo)	Chironomus aff. alternans (V24) (CB) Cladopelma curtivalva Cryptochinomus grisedoraum Dicrotendiges conjunctus Kiefentus interinctus Orthociadrines sp. Paramettis reidenus! Polypedilum nubifer Procledius paulidicidis Procledius paulidicidis Procledius paulidicidis Procledius paulidicidis Procledius paulidicidis Tarytarsus strutianis Tarytarsus fuscitimoavisemibarbilaraus Leydigia cil leydigia (SAP) Pieturousu inemis 101 24399 Columba fivia (Domestic Pigeon) 24400 Phapa chacloptara (Common Bocuzevina) 24400 Phapa chacloptara (Common Bocuzevina) 24400 Phapa chacloptara (Corticus Grised Pigeon) 24400 Phapa chacloptara (Corticus descentius fuscitariam Raven) 24410 Corvus comonides subsp. perplexus (Australian Raven) 24420 Crocicus discentius subsp. perplexus (Australian Raven) 24420 Crocicus discentius subsp. perplexus (Australian Raven) 24420 Crocicus discentius Bolicomis (Sapitaria Magnie) 24421 Corvus comonides subsp. perplexus (Cuckoo) 24421 Chrysococcyv basala (Fordicia Simuse Cuckoo) 24423 Chrysococcyv basala (Fordicia Simuse Cuckoo) 24423 Chrysococcyv busidus subsp. pelagosus (Shiring Bronze Cuckoo)







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
153.		Candonocypris novaezelandiae			
154.		Cypricercus salinus			
155.		Diacypris compacta			
156.		Diacypris spinosa			
157.		Ilyodromus candonites			
158.		Mytilocypris mytiloides			
159.		Platycypris baueri			
Cypridopsida	Δ.				
160.	•	Sarscypridopsis aculeata			
Daphniidae					
161.		Daphnia carinata			
162.		Daphnia cephalata			
163.		Daphnia sp.			
164.		Daphnia truncata			
Dasyuridae					
165.		Dasyurus geoffroii (Chuditch, Western Quoll)		Т	
166.		Parantechinus apicalis (Dibbler)		Т	
167.		Sminthopsis crassicaudata (Fat-tailed Dunnart)			
168.		Sminthopsis dolichura (Little long-tailed Dunnart)			
169.	24112	Sminthopsis granulipes (White-tailed Dunnart)			
Dicaeidae					
170.	25607	Dicaeum hirundinaceum (Mistletoebird)			
Dicruridae					
171.	24443	Grallina cyanoleuca (Magpie-lark)			
172.		Myiagra inquieta (Restless Flycatcher)			
173.		Rhipidura albiscapa (Grey Fantail)			
174.		Rhipidura leucophrys (Willie Wagtail)			
175.		Rhipidura leucophrys subsp. leucophrys (Willie Wagtail)			
		· · · · · · · · · · · · · · · · · · ·			
Diplodactylida	ae				
176.		Crenadactylus ocellatus subsp. ocellatus (Clawless Gecko)			
177.	25469	Diplodactylus granariensis			
178.	24929	Diplodactylus granariensis subsp. granariensis			
179.	24940	Diplodactylus pulcher			
180.	24936	Strophurus michaelseni			
181.	24942	Strophurus spinigerus subsp. spinigerus			
Dytiscidae					
182.		Allodessus bistrigatus			
183.		Antiporus sp.			
184.		Dytiscidae sp.			
185.		Hyphydrus sp.			
186.		Lancetes lanceolatus			
187.		Limbodessus inornatus			
188.		Limbodessus shuckhardi			
189.		Megaporus howittii			
190.		Necterosoma penicillatus			
191.		Necterosoma sp.			
192.		Sternopriscus multimaculatus			
193.		Stemopriscus sp.			
Echeneidae		Education accounts			
194.		Echeneis naucrates			
Camanaida a					
Ecnomicae					
195.		Ecnomus pansus			
		Ecnomus pansus Ecnomus pansus/turgidus			
195. 196.					
195. 196. Elapidae	42380	Ecnomus pansus/turgidus			
195. 196. Elapidae 197.		Ecnomus pansus/turgidus Brachyurophis fasciolatus subsp. fasciolatus (Narrow-banded Shovel-nosed Snake)			
195. 196. Elapidae 197. 198.	42381	Ecnomus pansus/turgidus Brachyurophis fasciolatus subsp. fasciolatus (Narrow-banded Shovel-nosed Snake) Brachyurophis semifasciatus (Southern Shovel-nosed Snake)			
195. 196. Elapidae 197. 198.	42381 25296	Ecnomus pansus/turgidus Brachyurophis fasciolatus subsp. fasciolatus (Narrow-banded Shovel-nosed Snake) Brachyurophis semifasciatus (Southern Shovel-nosed Snake) Demansia psammophis subsp. reticulata (Yellow-faced Whipsnake)			
195. 196. Elapidae 197. 198. 199. 200.	42381 25296 25251	Ecnomus pansus/turgidus Brachyurophis fasciolatus subsp. fasciolatus (Narrow-banded Shovel-nosed Snake) Brachyurophis semifasciatus (Southern Shovel-nosed Snake) Demansia psammophis subsp. reticulata (Yellow-faced Whipsnake) Echiopsis curta (Bardick)			
195. 196. Elapidae 197. 198. 199. 200. 201.	42381 25296 25251 25253	Ecnomus pansus/turgidus Brachyurophis fasciolatus subsp. fasciolatus (Narrow-banded Shovel-nosed Snake) Brachyurophis semifasciatus (Southern Shovel-nosed Snake) Demansia psammophis subsp. reticulata (Yellow-faced Whipsnake) Echiopsis curta (Bardick) Parasuta gouldii			
195. 196. Elapidae 197. 198. 199. 200. 201. 202.	42381 25296 25251 25253 25255	Ecnomus pansus/turgidus Brachyurophis fasciolatus subsp. fasciolatus (Narrow-banded Shovel-nosed Snake) Brachyurophis semifasciatus (Southern Shovel-nosed Snake) Demansia psammophis subsp. reticulata (Yellow-faced Whipsnake) Echiopsis curta (Bardick) Parasuta gouldii Parasuta nigriceps			
195. 196. Elapidae 197. 198. 199. 200. 201. 202. 203.	42381 25296 25251 25253 25255 25261	Ecnomus pansus/turgidus Brachyurophis fasciolatus subsp. fasciolatus (Narrow-banded Shovel-nosed Snake) Brachyurophis semifasciatus (Southern Shovel-nosed Snake) Demansia psammophis subsp. reticulata (Yellow-faced Whipsnake) Echiopsis curta (Bardick) Parasuta gouldii Parasuta nigriceps Pseudechis australis (Mulga Snake)			
195. 196. Elapidae 197. 198. 199. 200. 201. 202. 203. 204.	42381 25296 25251 25253 25255 25261 25259	Ecnomus pansus/turgidus Brachyurophis fasciolatus subsp. fasciolatus (Narrow-banded Shovel-nosed Snake) Brachyurophis semifasciatus (Southern Shovel-nosed Snake) Demansia psammophis subsp. reticulata (Yellow-faced Whipsnake) Echiopsis curta (Bardick) Parasuta gouldii Parasuta nigriceps Pseudechis australis (Mulga Snake) Pseudonaja affinis subsp. affinis (Dugite)			
195. 196. Elapidae 197. 198. 199. 200. 201. 202. 203. 204. 205.	42381 25296 25251 25253 25255 25261 25259 42416	Ecnomus pansus/turgidus Brachyurophis fasciolatus subsp. fasciolatus (Narrow-banded Shovel-nosed Snake) Brachyurophis semifasciatus (Southern Shovel-nosed Snake) Demansia psammophis subsp. reticulata (Yellow-faced Whipsnake) Echiopsis curta (Bardick) Parasuta gouldii Parasuta nigriceps Pseudechis australis (Mulga Snake) Pseudonaja affinis subsp. affinis (Dugite) Pseudonaja mengdeni (Western Brown Snake)			
196. Elapidae 197. 198. 199. 200. 201. 202. 203. 204.	42381 25296 25251 25253 25255 25261 25259 42416 25263	Ecnomus pansus/turgidus Brachyurophis fasciolatus subsp. fasciolatus (Narrow-banded Shovel-nosed Snake) Brachyurophis semifasciatus (Southern Shovel-nosed Snake) Demansia psammophis subsp. reticulata (Yellow-faced Whipsnake) Echiopsis curta (Bardick) Parasuta gouldii Parasuta nigriceps Pseudechis australis (Mulga Snake) Pseudonaja affinis subsp. affinis (Dugite)			







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Ephydridae		5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Alou
208.		Ephydridae sp. 6 (SAP)			
Estrilidae					
209.	30871	Taeniopygia guttata subsp. castanotis (Zebra Finch)			
Falconidae					
210.	25621	Falco berigora (Brown Falcon)			
211.		Falco berigora subsp. berigora (Brown Falcon)			
212.		Falco cenchroides (Australian Kestrel, Nankeen Kestrel)			
213.	24472	Falco cenchroides subsp. cenchroides (Australian Kestrel, Nankeen Kestrel)			
214.	25623	Falco longipennis (Australian Hobby)			
215.	24474	Falco longipennis subsp. longipennis (Australian Hobby)			
216.	25624	Falco peregrinus (Peregrine Falcon)		S	
Galaxiidae					
217.	34028	Galaxias occidentalis (Western Minnow)			
0-14		·			
Gekkonidae	0.4000	Objective and the Manual Control			
218.		Christinus marmoratus (Marbled Gecko)			
219. 220.		Gehyra variegata Heteronotia binoei (Bynoe's Gecko)			
220. 221.		Underwoodisaurus milii (Barking Gecko)			
		Ondo moduladida miii (Barking Octoo)			
Gnaphosidae 222.	1	Eilica albopunctata			Y
Gobiesocidae)				
223.		Alabes brevis			
Gobiidae					
224.		Afurcagobius suppositus			
225.		Pseudogobius olorum			
Halcyonidao					
Halcyonidae 226.	20001	Pacelo novaequinese // aughing Kookahurra)	Υ		
227.		Dacelo novaeguineae (Laughing Kookaburra) Todiramphus pyrrhopygius (Red-backed Kingfisher)	Y		
228.		Todiramphus sanctus (Sacred Kingfisher)			
229.		Todiramphus sanctus subsp. sanctus (Sacred Kingfisher)			
		, , , , , , , , , , , , , , , , , , , ,			
Haliplidae 230.		Haliplus sp.			
Henicopidae					
231.		Henicops dentatus			
Hexarthridae 232.		Hexarthra n. sp.a (cf. fennica with 7/7 unci teeth) (SAP)			
Hirundinidae					
233.	47909	Cheramoeca leucosterna (White-backed Swallow)			
234.	24491	Hirundo neoxena (Welcome Swallow)			
235.	48060	Petrochelidon ariel (Fairy Martin)			
236.	48061	Petrochelidon nigricans (Tree Martin)			
Hydraenidae					
237.		Gymnocthebius sp. 1 (SAP)			
238.		Gymnocthebius sp. 3 (SAP)			Υ
239.		Hydraenidae sp.			
Hydrophilidae	,				
240.	-	Berosus discolor			
241.		Berosus sp.			
242.		Enochrus elongatulus			
243.		Enochrus eyrensis			
244.		Hydrochus australis			
245.		Hydrophilidae sp.			
246.		Limnoxenus zelandicus			
247.		Paracymus pygmaeus			
Hylidae 248.	25388	Litoria moorei (Motorbike Frog)			
Idiopidae					
249.		Eucyrtops riparia			Υ
250.	33917	Idiosoma nigrum (Shield-backed Trapdoor Spider)		T	
250. 251.		Idiosoma nigrum (Shield-backed Trapdoor Spider) Idiosoma sigillatum (Swan Coastal Plain shield-backed trapdoor spider)		T P3	







Name ID Species Name Naturalised Conservation Code ¹Endemic To Query Area Ilyocyprididae 252. Ilyocypris 'spiculata' (ms name) (SAP) Ixodidae 253. Amblyomma triguttatum Lamponidae Lampona cylindrata Laridae 255. Chroicocephalus novaehollandiae 256 24511 Larus novaehollandiae subsp. novaehollandiae (Silver Gull) 257. 24528 Sterna hybrida subsp. javanica (Whiskered Tern) Leptoceridae 258. Leptoceridae sp. 259 Notalina spira 260. Oecetis sp. 261. Triplectides australis Lestidae 262. Austrolestes annulosus 263. Austrolestes aridus 264 Lestidae sp. Libellulidae 265 Orthetrum caledonicum Limnodynastidae 266 25408 Heleioporus albopunctatus (Western Spotted Frog) 267. 25410 Heleioporus eyrei (Moaning Frog) 268 25412 Heleioporus psammophilus (Sand Frog) 269. 25415 Limnodynastes dorsalis (Western Banjo Frog) 270. 25426 Neobatrachus pelobatoides (Humming Frog) Lycosidae 271. Artoriopsis expolita 272. Dingosa serrata 273. Dingosa simsoni 274 Hoggicosa storri 275. Tasmanicosa leuckartii 276. Venator immansueta 277. Venatrix pullastra Macropodidae 24132 Macropus fuliginosus (Western Grey Kangaroo) Macrotrichidae 279. Macrothrix breviseta Maluridae Malurus cyaneus 280. 281. 25651 Malurus lamberti (Variegated Fairy-wren) 24544 Malurus lamberti subsp. assimilis (Variegated Fairy-wren) 283 25652 Malurus leucopterus (White-winged Fairy-wren) 284. 24549 Malurus leucopterus subsp. leuconotus (White-winged Fairy-wren) 285. 24551 Malurus pulcherrimus (Blue-breasted Fairy-wren) 286. 25654 Malurus splendens (Splendid Fairy-wren) Megapodiidae 24557 Leipoa ocellata (Malleefowl) 287. Meliphagidae 288. 24559 Acanthagenys rufogularis (Spiny-cheeked Honeyeater) 289. 24560 Acanthorhynchus superciliosus (Western Spinebill) 24561 Anthochaera carunculata (Red Wattlebird) 290. 291. 24562 Anthochaera lunulata (Western Little Wattlebird) 24567 Epthianura albifrons (White-fronted Chat) 292. 293. 24570 Epthianura tricolor (Crimson Chat) 42314 Gavicalis virescens (Singing Honeyeater) 294 295. 47962 Glyciphila melanops (Tawny-crowned Honeyeater) 296 25659 Lichenostomus leucotis (White-eared Honeyeater) 297. 24576 Lichenostomus leucotis subsp. novaenorciae (White-eared Honeyeater) 298 25661 Lichmera indistincta (Brown Honeyeater) 299. 24582 Lichmera indistincta subsp. indistincta (Brown Honeyeater) 300. 24583 Manorina flavigula (Yellow-throated Miner) 301. 25663 Melithreptus brevirostris (Brown-headed Honeyeater)







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
302.	48071	Phylidonyris niger (White-cheeked Honeyeater)			
303.		Phylidonyris novaehollandiae (New Holland Honeyeater)			
304.	42344	Purnella albifrons (White-fronted Honeyeater)			
/leropidae					
305.	24598	Merops ornatus (Rainbow Bee-eater)			
Mesostigmata	a	Mesostigmata sp.			
		moosigmaa op.			
Mesoveliidae 307.	•	Manayaliidaa an			
307.		Mesoveliidae sp.			
Micropholcon 308.	nmatida	B Raveniella cirrata			
Motacillidae 309.	24599	Anthus australis subsp. australis (Australian Pipit)			
Muridae					
310.	24215	Hydromys chrysogaster (Water-rat, Rakali)		P4	
311.		Mus musculus (House Mouse)	Υ	17	
312.		Notomys longicaudatus (Long-tailed Hopping-mouse, koolawa)		Х	
313.		Notomys macrotis (Big-eared Hopping-mouse, noompa)		X	
314.		Rattus rattus (Black Rat)	Υ		
Myohatrachic	dae				
Vlyobatrachio 315.		Crinia insignifera (Squelching Froglet)			
316.		Crinia insignilera (Squeiching Proglet) Crinia pseudinsignifera (Bleating Froglet)			
317.		Myobatrachus gouldii (Turtle Frog)			
318.		Pseudophryne guentheri (Crawling Toadlet)			
Naididae		Maididae (au TubiSaidae)			
319.		Naididae (ex Tubificidae)			
Nematoda 320.		Nematoda sp.			
Nemesiidae					
321.		Aname mainae			
Naccittidae					
Neosittidae 322.	25673	Daphoenositta chrysoptera (Varied Sittella)			
323.		Daphoenositta chrysoptera (varied Sittella, Black-capped Sitella)			
		Euphochosita omysoptera sussp. pineata (vanea sitena, Eusik supped sitena)			
Nicodamidae 324.	•	Nicodamus mainae			
Notonectidae)				
325.		Anisops baylii			
326.		Anisops gratus			
327.		Anisops sp.			
328.		Anisops thienemanni			
329.		Notonectidae sp.			
Oligochaeta 330.		Oligochaeta sp.			
Oniscidae					
331.		Oniscidae sp.			
Otididae	04040				
332.	∠4010	Ardeotis australis (Australian Bustard)			
Oxyopidae					
333.		Oxyopes gracilipes			
Pachycephali	lidae				
334.		Colluricincla harmonica (Grey Shrike-thrush)			
		Colluricincla harmonica subsp. rufiventris (Grey Shrike-thrush)			
335.		Oreoica gutturalis (Crested Bellbird)			
335. 336.	2-010				
		Pachycephala rufiventris (Rufous Whistler)			
336.	25680	Pachycephala rufiventris (Rufous Whistler) Pachycephala rufiventris subsp. rufiventris (Rufous Whistler)			
336. 337. 338.	25680				
336. 337. 338. Pardalotidae	25680 24624	Pachycephala rufiventris subsp. rufiventris (Rufous Whistler)			
336. 337. 338. Pardalotidae 339.	25680 24624 25681	Pachycephala rufiventris subsp. rufiventris (Rufous Whistler) Pardalotus punctatus (Spotted Pardalote)			
336. 337. 338. Pardalotidae	25680 24624 25681 25682	Pachycephala rufiventris subsp. rufiventris (Rufous Whistler)			







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Peripatopsida	е	Occiperipatoides gilesii			
D-4i-id		, .			
Petroicidae	24652	Fanceltic reassions (M/hite broasted Pakin)			
343. 344.		Eopsaltria georgiana (White-breasted Robin) Microeca fascinans (Jacky Winter)			
		Microeca fascinans (Jacky Winter)			
345. 346.		Microeca fascinans subsp. assimilis (Jacky Winter)			
340.		Petroica boodang (Scarlet Robin)			
347.	24039	Petroica goodenovii (Red-capped Robin)			
Phalacrocora	cidae				
348.		Microcarbo melanoleucos			
349.	25698	Phalacrocorax melanoleucos (Little Pied Cormorant)			
350.	24666	Phalacrocorax melanoleucos subsp. melanoleucos (Little Pied Cormorant)			
351.	24667	Phalacrocorax sulcirostris (Little Black Cormorant)			
Phasianidae					
352.	24671	Coturnix pectoralis (Stubble Quail)			
353.		Coturnix ypsilophora (Brown Quail)			
354.		Gallus gallus			
		·			
Pionidae					
355.		Acercella falcipes			
Planorbidae					
356.		Planorbidae sp.			
		·			
Podargidae					
357.		Podargus strigoides (Tawny Frogmouth)			
358.	24679	Podargus strigoides subsp. brachypterus (Tawny Frogmouth)			
Podicipedidae)				
359.		Poliocephalus poliocephalus (Hoary-headed Grebe)			
360.	25705	Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe)			
361.	24682	Tachybaptus novaehollandiae subsp. novaehollandiae (Australasian Grebe, Black-			
		throated Grebe)			
Damataatami	.				
Pomatostomic		Demote the same and it is a second of Debble to			
362. 363.		Pomatostomus superciliosus (White-browed Babbler)			
303.	34013	Pomatostomus superciliosus subsp. ashbyi (White-browed Babbler (western			
		wheatbelt))			
Procellariidae					
364.	24689	Halobaena caerulea (Blue Petrel)			
Psittacidae					
365.		Barnardius zonarius			
366.	24722	Cacatua leadbeateri (Major Mitchell's Cockatoo)			
367.		Cacatua pastinator (Western Long-billed Corella)			
368.		Cacatua pastinator subsp. butleri (Butler's Corella)			
369.		Cacatua roseicapilla (Galah)			
370.		Cacatua roseicapilla subsp. assimilis (Galah)			
371.		Cacatua sanguinea (Little Corella)			
372.		Calyptorhynchus banksii (Red-tailed Black-Cockatoo)			
373.		Calyptorhynchus latirostris (Carnaby's Cockatoo, White-tailed Short-billed Black			
5. 5.		Cockatoo)		Т	
374.	48400	Calyptorhynchus sp. (white-tailed black cockatoo)		Т	
375.		Melopsittacus undulatus (Budgerigar)		·	
376.		Neophema elegans (Elegant Parrot)			
377.		Nymphicus hollandicus (Cockatiel)			
378.		Pezoporus flaviventris (Western Ground Parrot)		Т	
379.		Platycercus icterotis subsp. icterotis (Western Rosella)			
380.		Platycercus icterotis subsp. xanthogenys (Western Rosella (inland))		P4	
381.		Platycercus varius (Mulga Parrot)			
382.		Platycercus zonarius (Australian Ringneck, Ring-necked Parrot)			
383.		Platycercus zonarius subsp. semitorquatus (Twenty-eight Parrot)			
		Platycercus zonarius subsp. zonarius (Port Lincoln Parrot)			
384.		Polytelis anthopeplus (Regent Parrot)			
384. 385.	25722				
385.					
385. 386.		Polytelis anthopeplus subsp. westralis (Regent Parrot)			
385. 386. 387.					
385. 386. 387. Pygopodidae	30854	Polytelis anthopeplus subsp. westralis (Regent Parrot) Purpureicephalus spurius			
385. 386. 387. Pygopodidae 388.	30854 24991	Polytelis anthopeplus subsp. westralis (Regent Parrot) Purpureicephalus spurius Aprasia repens (Sand-plain Worm-lizard)			
385. 386. 387. Pygopodidae	30854 24991 25766	Polytelis anthopeplus subsp. westralis (Regent Parrot) Purpureicephalus spurius			







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
391.	25005	Lialis burtonis			7.1.01
392.	25007	Pletholax gracilis subsp. gracilis (Keeled Legless Lizard)			
393.	25008	Pygopus lepidopodus (Common Scaly Foot)			
Pyralidae					
394.		Pyralidae sp.			
D-III					
Rallidae	05707	Fulling after (Funnaine Cont)			
395. 396.		Fulica atra (Eurasian Coot) Fulica atra subsp. australis (Eurasian Coot)			
397.		Gallinula tenebrosa subsp. tenebrosa (Dusky Moorhen)			
398.		Porphyrio porphyrio subsp. bellus (Purple Swamphen)			
399.		Porzana fluminea (Australian Spotted Crake)			
400.	24770	Porzana pusilla subsp. palustris (Baillon's Crake)			
401.	48141	Tribonyx ventralis (Black-tailed Native-hen)			
Recurvirostrid	lae				
402.		Cladorhynchus leucocephalus (Banded Stilt)			
403.		Himantopus himantopus (Black-winged Stilt)			
404.		Himantopus himantopus subsp. leucocephalus (Black-winged Stilt)			
405.	24776	Recurvirostra novaehollandiae (Red-necked Avocet)			
Salticidae					
406.		Maratus pavonis			
407.		Salpesia squalida			Y
408.		Sandalodes joannae			
Scincidae 409.	30803	Cryptoblepharus buchananii			
410.		Ctenotus australis			
411.		Ctenotus fallens			
412.		Ctenotus pantherinus subsp. pantherinus (Leopard Ctenotus)			
413.	25074	Ctenotus schomburgkii			
414.	25107	Egernia stokesii subsp. badia (Western Spiny-tailed Skink, Gidgee Skink)		T	
415.	25109	Eremiascincus richardsonii (Broad-banded Sand Swimmer)			
416.		Lerista distinguenda			
417.		Lerista lineopunctulata			
418.		Menetia greyii			
419. 420.		Morethia obscura Tiliqua occipitalis (Western Bluetongue)			
421.		Tiliqua rugosa subsp. rugosa			
	20201	Timqua Tugosa susop. Tugosa			
Scolopacidae					
422.		Actitis hypoleucos (Common Sandpiper)		IA	
423. 424.		Calidris acuminata (Sharp-tailed Sandpiper) Calidris melanotos (Pectoral Sandpiper)		IA IA	
424.	24700	Caliuns metanotos (Fectoral Sanupiper)		IA	
Scolopendrida	ae				
425.		Cormocephalus aurantiipes			
426.		Cormocephalus rubriceps Cormocephalus atrigenus			
427. 428.		Cormocephalus strigosus Cormocephalus turneri			
429.		Ethmostigmus rubripes			
430.		Notiasemus glauerti			
431.		Scolopendra laeta			
432.		Scolopendra morsitans			
Scutigeridae					
433.		Thereuopoda lesueurii			
		,			
Sididae		Latananaia of hrahmi (SAR)			
434.		Latonopsis cf. brehmi (SAP)			
Stratiomyidae					
435.		Stratiomyidae sp.			
Sylviidae					
436.	25758	Megalurus gramineus (Little Grassbird)			
437.		Megalurus gramineus subsp. gramineus (Little Grassbird)			
Tarsipedidae					
438.	24167	Tarsipes rostratus (Honey Possum, Noolbenger)			
Tenuipalpidae)				
439.		Aegyptobia yertle			Y
Testudinellida	е				

Testudinellidae







Name ID Species Name Naturalised Conservation Code ¹Endemic To Query Area

440. Testudinella patina

Tettigoniidae

441. 33993 Throscodectes xederoides (Mogumber Bush Cricket, Northern Throsco)

Theridiidae

442. Latrodectus hasseltii

Threskiornithidae

24841 Platalea flavipes (Yellow-billed Spoonbill) 443. 444. 24845 Threskiornis spinicollis (Straw-necked Ibis)

Trombidiformes

445. Acariformes sp.

Turnicidae

446. 48147 Turnix varius (Painted Button-quail) 447. 24851 Turnix velox (Little Button-quail)

Typhlopidae

448. 44629 Anilios australis

Tytonidae

24852 Tyto alba subsp. delicatula (Barn Owl)

Urodacidae

450. Urodacus armatus 451. Urodacus hoplurus 452. Urodacus novaehollandiae

Varanidae

453. 25526 Varanus tristis (Racehorse Monitor)

Vespertilionidae

454. 24186 Chalinolobus gouldii (Gould's Wattled Bat) 455. 24194 Nyctophilus geoffroyi (Lesser Long-eared Bat)

Withiidae

Withius piger 456.

Zodariidae

457. Pentasteron intermedium 458. Storena formosa

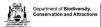
Zosteropidae

459. 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.





EPBC Act Protected Matters Report

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

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

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

Report created: 01/11/19 19:14:49

Summary

Details

Matters of NES

Other Matters Protected by the EPBC Act

Extra Information

Caveat

Acknowledgements



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

Coordinates
Buffer: 50.0Km



Summary

Matters of National Environmental Significance

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

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	4
<u>Listed Threatened Species:</u>	79
Listed Migratory Species:	9

Other Matters Protected by the EPBC Act

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

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

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

Commonwealth Land:	1
Commonwealth Heritage Places:	None
Listed Marine Species:	16
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None

Extra Information

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

State and Territory Reserves:	34
Regional Forest Agreements:	1
Invasive Species:	23
Nationally Important Wetlands:	1
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

Listed Threatened Ecological Communities

Elotod Tillodioriod Ecological Communico		[Trocodico information]
For threatened ecological communities where the distributions, State vegetation maps, remote sensing imagery a community distributions are less well known, existing verproduce indicative distribution maps.	and other sources. Where	threatened ecological
Name	Status	Type of Presence
Banksia Woodlands of the Swan Coastal Plain ecological community	Endangered	Community likely to occur within area
Clay Pans of the Swan Coastal Plain	Critically Endangered	Community likely to occur within area
Eucalypt Woodlands of the Western Australian Wheatbelt	Critically Endangered	Community likely to occur within area
Tuart (Eucalyptus gomphocephala) Woodlands and Forests of the Swan Coastal Plain ecological community	Critically Endangered	Community may occur within area
Listed Threatened Species		[Resource Information]
Name	Status	Type of Presence
Birds	Otatus	Type of Fresence
<u>Calidris ferruginea</u>		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
<u>Calyptorhynchus latirostris</u>		
Carnaby's Cockatoo, Short-billed Black-Cockatoo [59523]	Endangered	Breeding known to occur within area
<u>Leipoa ocellata</u>		
Malleefowl [934]	Vulnerable	Species or species habitat known to occur within area
Numenius madagascariensis		
Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pezoporus occidentalis		
Night Parrot [59350]	Endangered	Species or species habitat may occur within area
Rostratula australis		
Australian Painted-snipe, Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
Fish		
Nannatherina balstoni		
Balston's Pygmy Perch [66698]	Vulnerable	Species or species habitat likely to occur within area
Mammals		
Dasyurus geoffroii		
Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat known to occur within area
Parantechinus apicalis		
Dibbler [313]	Endangered	Species or species habitat may occur within

[Resource Information]

Name	Status	Type of Presence
		area
Phascogale calura Red-tailed Phascogale, Red-tailed Wambenger, Kenngoor [316]	Vulnerable	Species or species habitat likely to occur within area
Other		
Idiosoma nigrum Shield-backed Trapdoor Spider, Black Rugose Trapdoor Spider [66798]	Vulnerable	Species or species habitat known to occur within area
Plants		
Acacia aprica		
Blunt Wattle [64821]	Endangered	Species or species habitat likely to occur within area
Acacia aristulata		
Watheroo Wattle [64822]	Endangered	Species or species habitat known to occur within area
Acacia ataxiphylla subsp. magna		
Large-fruited Tammin Wattle [64823]	Endangered	Species or species habitat may occur within area
Acacia cochlocarpa subsp. cochlocarpa		
Spiral-fruited Wattle [23877]	Endangered	Species or species habitat known to occur within area
Acacia cochlocarpa subsp. velutinosa		
Velvety Spiral Pod Wattle [65112]	Critically Endangered	Species or species habitat likely to occur within area
Acacia forrestiana		
Forest's Wattle [17235]	Vulnerable	Species or species habitat known to occur within area
Acacia splendens		
Splendid Wattle, Dandaragan Wattle [81510]	Endangered	Species or species habitat known to occur within area
Acacia vassalii		
Vassal's Wattle [6144]	Endangered	Species or species habitat known to occur within area
Andersonia gracilis		
Slender Andersonia [14470]	Endangered	Species or species habitat likely to occur within area
Anigozanthos viridis subsp. terraspectans		
Dwarf Green Kangaroo Paw [3435]	Vulnerable	Species or species habitat likely to occur within area
Asterolasia nivea		
Bindoon Starbush [8225]	Vulnerable	Species or species habitat likely to occur within area
Banksia fuscobractea		
Dark-bract Banksia [83059]	Critically Endangered	Species or species habitat known to occur within area
Banksia mimica		
Summer Honeypot [82765]	Endangered	Species or species habitat likely to occur within area
Banksia serratuloides subsp. perissa		
Northern Serrate Dryandra [82767]	Critically Endangered	Species or species habitat may occur within area
Banksia serratuloides subsp. serratuloides		
Southern Serrate Dryandra [82768]	Vulnerable	Species or species habitat known to occur within area
Caladenia drakeoides		
Hinged Dragon Orchid [68687]	Endangered	Species or species

Name	Status	Type of Presence
		habitat known to occur within area
<u>Chamelaucium sp. Cataby (G.J.Keighery 11009)</u> Griffin's Waxflower [82509]	Vulnerable	Species or species habitat
		known to occur within area
Chamelaucium sp. Gingin (N.G.Marchant 6) Gingin Wax [88881]	Endangered	Species or species habitat likely to occur within area
Chorizema humile Prostrate Flame Pea [32573]	Endangered	Species or species habitat known to occur within area
Conospermum densiflorum subsp. unicephalatum One-headed Smokebush [64871]	Endangered	Species or species habitat known to occur within area
<u>Darwinia acerosa</u> Fine-leaved Darwinia [9004]	Endangered	Species or species habitat known to occur within area
<u>Darwinia carnea</u> Mogumber Bell, Narrogin Bell [9736]	Endangered	Species or species habitat likely to occur within area
Dasymalla axillaris Native Foxglove [38829]	Critically Endangered	Species or species habitat likely to occur within area
<u>Daviesia dielsii</u> Diels' Daviesia [19617]	Endangered	Species or species habitat known to occur within area
<u>Daviesia euphorbioides</u> Wongan Cactus [3477]	Endangered	Species or species habitat may occur within area
Diplolaena andrewsii [6601]	Endangered	Species or species habitat may occur within area
<u>Drakaea elastica</u> Glossy-leafed Hammer Orchid, Glossy-leaved Hammer Orchid, Warty Hammer Orchid [16753]	Endangered	Species or species habitat known to occur within area
Eleocharis keigheryi Keighery's Eleocharis [64893]	Vulnerable	Species or species habitat known to occur within area
Eremophila glabra subsp. chlorella [84927]	Endangered	Species or species habitat known to occur within area
Eremophila pinnatifida Pinnate-leaf Eremophila [64894]	Endangered	Species or species habitat likely to occur within area
Eremophila scaberula Rough Emu Bush [16729]	Endangered	Species or species habitat known to occur within area
Eucalyptus absita Badgingarra Box [24260]	Endangered	Species or species habitat known to occur within area
Eucalyptus crispata Yandanooka Mallee [24268]	Vulnerable	Species or species habitat may occur within area
Eucalyptus dolorosa Dandaragan Mallee, Mount Misery Mallee [56709]	Endangered	Species or species habitat known to occur

Name	Status	Type of Presence
		within area
Eneabba Mallee [56711]	Endangered	Species or species habitat may occur within area
Eucalyptus leprophloia Scaly Butt Mallee, Scaly-butt Mallee [56712]	Endangered	Species or species habitat may occur within area
Eucalyptus pruiniramis Midlands Gum, Jingymia Gum [56403]	Endangered	Species or species habitat known to occur within area
Eucalyptus recta Silver Mallet [56430]	Endangered	Species or species habitat known to occur within area
Eucalyptus rhodantha Rose Mallee [9362]	Vulnerable	Species or species habitat known to occur within area
Eucalyptus x balanites Cadda Road Mallee, Cadda Mallee [87816]	Endangered	Species or species habitat may occur within area
Frankenia conferta Silky Frankenia [6074]	Endangered	Species or species habitat may occur within area
Gastrolobium appressum Scale-leaf Poison [7358]	Vulnerable	Species or species habitat may occur within area
Gastrolobium hamulosum Hook-point Poison [9212]	Endangered	Species or species habitat known to occur within area
Glyceria drummondii Nangetty Grass [14008]	Endangered	Species or species habitat known to occur within area
Goodenia arthrotricha [12448]	Endangered	Species or species habitat known to occur within area
Grevillea calliantha Foote's Grevillea, Cataby Grevillea, Black Magic Grevillea [56339]	Endangered	Species or species habitat known to occur within area
Grevillea christineae Christine's Grevillea [64520]	Endangered	Species or species habitat known to occur within area
Grevillea curviloba subsp. incurva Narrow curved-leaf Grevillea [64909]	Endangered	Species or species habitat may occur within area
Grevillea dryandroides subsp. hirsuta Hairy Phalanx Grevillea [64577]	Endangered	Species or species habitat likely to occur within area
Grevillea pythara Pythara Grevillea [64525]	Endangered	Species or species habitat may occur within area
Grevillea sp. Gillingarra (R.J.Cranfield 4087) [86383]	Critically Endangered	Species or species habitat known to occur within area
Hakea megalosperma Lesueur Hakea [10505]	Vulnerable	Species or species habitat likely to occur within area

Name	Status	Type of Presence
Haloragis platycarpa Broad-fruited Haloragis [15371]	Critically Endangered	Species or species habitat likely to occur within area
Hemiandra gardneri Red Snakebush [7945]	Endangered	Species or species habitat known to occur within area
Hemiandra rutilans Sargents Snakebush, Colourful Snakebush [17932]	Endangered	Species or species habitat likely to occur within area
Jacksonia pungens Pungent Jacksonia [64920]	Endangered	Species or species habitat may occur within area
Leucopogon obtectus Hidden Beard-heath [19614]	Endangered	Species or species habitat may occur within area
Melaleuca sciotostyla Wongan Melaleuca [24324]	Endangered	Species or species habitat known to occur within area
Paracaleana dixonii Sandplain Duck Orchid [86882]	Endangered	Species or species habitat likely to occur within area
Ptychosema pusillum Dwarf Pea [11268]	Vulnerable	Species or species habitat likely to occur within area
Roycea pycnophylloides Saltmat [21161]	Endangered	Species or species habitat likely to occur within area
<u>Spirogardnera rubescens</u> Spiral Bush [15667]	Endangered	Species or species habitat may occur within area
Synaphea quartzitica Quartz-loving Synaphea [64978]	Endangered	Species or species habitat known to occur within area
Thelymitra dedmaniarum Cinnamon Sun Orchid [65105]	Endangered	Species or species habitat may occur within area
Thelymitra stellata Star Sun-orchid [7060]	Endangered	Species or species habitat may occur within area
Thomasia sp. Green Hill (S.Paust 1322) Green Hill Thomasia [64542]	Endangered	Species or species habitat likely to occur within area
<u>Verticordia staminosa subsp. staminosa</u> Wongan Featherflower [55825]	Endangered	Species or species habitat may occur within area
Reptiles		
Egernia stokesii badia Western Spiny-tailed Skink, Baudin Island Spiny-tailed Skink [64483]	Endangered	Species or species habitat may occur within area
Listed Migratory Species * Species is listed under a different scientific name on t		•
Name Migratory Marine Birds	Threatened	Type of Presence
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur

Name	Threatened	Type of Presence
Name	micatorica	within area
Migratory Terrestrial Species		
Motacilla cinerea		
Grey Wagtail [642]		Species or species habitat may occur within area
Migratory Wetlands Species		
Actitis hypoleucos		
Common Sandpiper [59309]		Species or species habitat known to occur within area
Calidris acuminata		
Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area
Calidris ferruginea		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calidris melanotos		
Pectoral Sandpiper [858]		Species or species habitat may occur within area
Numenius madagascariensis		
Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pandion haliaetus		
Osprey [952]		Species or species habitat known to occur within area
Tringa nebularia		
Common Greenshank, Greenshank [832]		Species or species habitat

Other Matters Protected by the EPBC Act

Commonwealth Land [Resource Information]

likely to occur within area

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

Name

Commonwealth Land -		
Listed Marine Species		[Resource Information]
* Species is listed under a different scientific	name on the EPBC Act - Threat	ened Species list.
Name	Threatened	Type of Presence
Birds		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea alba Great Egret, White Egret [59541]		Species or species habitat known to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may occur within area
<u>Calidris acuminata</u> Sharp-tailed Sandpiper [874]		Species or species habitat may occur within

Name	Threatened	Type of Presence
Calidris ferruginea		area
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Chrysococcyx osculans Black-eared Cuckoo [705]		Species or species habitat known to occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pandion haliaetus Osprey [952]		Species or species habitat known to occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat likely to occur within area
Thinornis rubricollis Hooded Plover [59510]		Species or species habitat may occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Extra Information

State and Territory Reserves	[Resource Information]
Name	State
Bundarra	WA
Dandarangan	WA
Gillingarra	WA
Jam Hill	WA
Karamarra	WA
Koodjee	WA
Lake Wannamal	WA
Long Pool	WA
Manaling	WA
Merewana	WA
Minyulo	WA
Mogumber	WA
Mogumber West	WA
Moochamulla	WA
NTWA Bushland covenant (0048)	WA
NTWA Bushland covenant (0057)	WA
NTWA Bushland covenant (0115)	WA
Namban	WA
Namming	WA
Quins Hill	WA

Name	State
Sevenmile Well	WA
Unnamed WA23179	WA
Unnamed WA25591	WA
Unnamed WA28710	WA
Unnamed WA39322	WA
Unnamed WA39571	WA
Unnamed WA41042	WA
Unnamed WA43811	WA
Unnamed WA44081	WA
Unnamed WA45337	WA
Unnamed WA46899	WA
Unnamed WA47694	WA
Unnamed WA47808	WA
Watheroo	WA
Pegional Forest Agreements	[Pasource Information]

Regional Forest Agreements

[Resource Information]

Note that all areas with completed RFAs have been included.

Name State

South West WA RFA Western Australia

Invasive Species [Resource Information]

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

Name	Status	Type of Presence
Birds		
Anas platyrhynchos Mallard [974]		Species or species habitat likely to occur within area
Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Streptopelia chinensis Spotted Turtle-Dove [780]		Species or species habitat likely to occur within area
Streptopelia senegalensis Laughing Turtle-dove, Laughing Dove [781]		Species or species habitat likely to occur within area
Sturnus vulgaris Common Starling [389]		Species or species habitat likely to occur within area
Mammals		
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Capra hircus Goat [2]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area

Name	Status	Type of Presence
Rattus rattus Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
Sus scrofa Pig [6]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Asparagus asparagoides Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		Species or species habitat likely to occur within area
Brachiaria mutica Para Grass [5879]		Species or species habitat may occur within area
Carrichtera annua Ward's Weed [9511]		Species or species habitat may occur within area
Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]		Species or species habitat may occur within area
Chrysanthemoides monilifera Bitou Bush, Boneseed [18983]		Species or species habitat may occur within area
Genista sp. X Genista monspessulana Broom [67538]		Species or species habitat may occur within area
Olea europaea Olive, Common Olive [9160]		Species or species habitat may occur within area
Pinus radiata Radiata Pine Monterey Pine, Insignis Pine, Wilding Pine [20780]		Species or species habitat may occur within area
Rubus fruticosus aggregate Blackberry, European Blackberry [68406]		Species or species habitat likely to occur within area
Tamarix aphylla Athel Pine, Athel Tree, Tamarisk, Athel Tamarisk, Athel Tamarix, Desert Tamarisk, Flowering Cypress, Salt Cedar [16018]		Species or species habitat likely to occur within area
Nationally Important Wetlands		[Resource Information]
Name		State
Wannamal Lake System		WA

Caveat

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

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

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

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

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

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

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

- migratory and
- marine

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

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

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

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

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

Coordinates

-30 66647 116 01754

Acknowledgements

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

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

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

Please feel free to provide feedback via the Contact Us page.

NAME_SG	NAME_COM	CLASS	CONS_CODE	Date	SOURCE_ID	SOURCE	CERTAINTY	METHOD	TYPE		LOCALITY	SITE	ACCURACY_M
Actitis hypoleucos Aspidites ramsayi (southwest subpop.)	Common Sandpiper woma (southwest subgop.)	BIRD REPTILE	IA P1	09/12/1978	52736 157	BIRDATLAS1 TFALINA	Certain	Survey	Caught or trapped	1	Watheroo		18000 1000
Aspidites ramsayi (southwest subpop.)	woma (southwest subpop.)	REPTILE	P1	10/03/1953	REPT:R10702	WAM_REPTILES	WAM Vouchered	Collection	Specimen	1	WALEBING	WALEBING	50000
Calidris acuminata	sharp-tailed sandpiper	BIRD	IA		AVIF:1831	WAM BIRDS	WAM Vouchered	Collection	Specimen	1	MOORA	Moora	10000
Calidris ferruginea	curlew sandpiper	BIRD	CR & IA	10/02/1978	22147 161	BIRDATLAS1	Moderately Certain	Observational	Sighting	1	YATHROO	YATHROO	18000
Calidris ferruginea	curlew sandpiper	BIRD	CR & IA	02/11/1977		BIRDATLAS1 WAM BIRDS	Moderately Certain	Observational	Sighting	1	YATHROO MOORA	YATHROO	18000
Calidris melanotos Calidris ruficollis	pectoral sandpiper red-necked stint	BIRD	IA IA	07/02/1973 10/02/1978	AVIF:17833	BIRDATLAS1	WAM Vouchered Moderately Certain	Collection Observational	Specimen Sighting	1	YATHROO	Moora YATHROO	18000
Calidris ruficollis	red-necked stint	BIRD	IA .	02/11/1977		BIRDATLAS1	Moderately Certain	Observational	Sighting	1	YATHROO	YATHROO	18000
Calyptorhynchus banksii naso	forest red-tailed black cockatoo	BIRD	VU	23/02/1966	96591	TFAUNA	Certain			1	Moora		50000
							Very Certain (photo,						
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	24/11/2016	92723	TFAUNA	specimen, expert) Very Certain (photo,	Opportunistic sighting	Sighting	1	Regans Ford		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	FN	31/10/2016	88186	TFAUNA	specimen, expert)	Regular monitoring	Remote camera	0	GILLINGARRA		1000
							Very Certain (photo,						
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	31/10/2016	88187	TFAUNA	specimen, expert)	Regular Monitoring	Sighting	2	GILLINGARRA		1000
		RIRD	FN			TEALINA	Very Certain (photo,				RADGINGARRA		
Calyptorhynchus latirostris	Carnaby's cockatoo	BIND	EN	15/10/2016	88185	IFAUNA	specimen, expert) Very Certain (photo,	Regular Monitoring	Sighting	1	BADGINGAKKA		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	15/10/2016	88188	TFAUNA	specimen, expert)	Regular Monitoring	Sighting	1	BADGINGARRA		1000
							Very Certain (photo,	Tong and the control of					
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	15/10/2016	88189	TFAUNA	specimen, expert)	Regular Monitoring	Sighting	1	BADGINGARRA		1000
							Very Certain (photo,						
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	15/10/2016	88190	TFAUNA	specimen, expert) Very Certain (photo,	Regular Monitoring	Sighting	1	BADGINGARRA		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	15/10/2016	88193	TFAUNA	specimen, expert)	Regular Monitoring	Sighting	0	BADGINGARRA		1000
							Very Certain (photo,						
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	15/10/2016	88195	TFAUNA	specimen, expert)	Regular Monitoring	Sighting	0	BADGINGARRA		1000
							Very Certain (photo,						
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	15/10/2016	88196	TFAUNA	specimen, expert) Very Certain (photo,	Regular Monitoring	Sighting	0	BADGINGARRA		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	FN	15/10/2016	88197	TFAUNA	specimen, expert)	Regular Monitoring	Sighting	0	BADGINGARRA		1000
and the state of t							Very Certain (photo,						
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	15/10/2016	88198	TFAUNA	specimen, expert)	Regular Monitoring	Sighting	0	BADGINGARRA		1000
		BIRD	FN	30/09/2016		TFAUNA	Very Certain (photo,				GLENTROMIE		
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	30/09/2016	88164	TFAUNA	specimen, expert) Very Certain (photo,	Regular monitoring	Remote camera	1	GLENTROME		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	30/09/2016	00724	TFAUNA	specimen, expert)	Regular monitoring	Remote camera	1	WALEBING		1000
	Carriedy accounted	und	Lis	30,03,2020	002.54	IIAUAA	Very Certain (photo,	regular incincuring	PARTITUTE CATHERIN	•	WALLESTO		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	30/09/2016	88235	TFAUNA	specimen, expert)	Regular monitoring	Remote camera	1	WALEBING		1000
							Very Certain (photo,						
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	30/09/2016	88236	TFAUNA	specimen, expert)	Regular Monitoring	Sighting	1	WALEBING		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	30/09/2016	00227	TEAUNA	Very Certain (photo, specimen, expert)	Regular Monitoring	Sighting		WALEBING		1000
Caryptornyntrius aurosoris	Carnaby s cockatoo	BIND	EN	30/03/2010	88237	Trausa	Very Certain (photo,	regular monitoring	Signing	1	WALEBING		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88165	TFAUNA	specimen, expert)	Regular monitoring	Remote camera	2	MOGUMBER		1000
							Very Certain (photo,						
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88166	TFAUNA	specimen, expert)	Regular monitoring	Remote camera	2	MOGUMBER		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	00157	TEAUNA	Very Certain (photo, specimen, expert)	Regular monitoring	Remote camera		MOGUMBER		1000
Caryptornynthus aurosurs	Carnaby scockatoo	BIND	EN	23/09/2016	88107	ITAUNA	Very Certain (photo.	regular monitoring	Permote carriera	2	MUGUMBER		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88168	TFAUNA	specimen, expert)	Regular monitoring	Remote camera	2	MOGUMBER		1000
							Very Certain (photo,						
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88169	TFAUNA	specimen, expert)	Regular monitoring	Remote camera	1	MOGUMBER		1000
		RIRD	FN	23/09/2016		TFAUNA	Very Certain (photo,				MOGUMBER		
Calyptorhynchus latirostris	Carnaby's cockatoo	BIND	EN	23/09/2016	88170	IFAUNA	specimen, expert) Very Certain (photo.	Regular monitoring	Remote camera	1	MOGUMBER		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88171	TFAUNA	specimen, expert)	Regular Monitoring	Sighting	1	MOGUMBER		1000
							Very Certain (photo,						
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88172	TFAUNA	specimen, expert)	Regular Monitoring	Sighting	1	MOGUMBER		1000
	Carnaby's cockatoo	RIRD	FN	23/09/2016		TEALINA	Very Certain (photo,	Regular Monitoring			MOGUMBER		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88173	TFAUNA	specimen, expert) Very Certain (photo,	Regular Monitoring	Sighting	1	MOGUMBER		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	00174	TFAUNA	specimen, expert)	Regular Monitoring	Sighting	1	MOGUMBER		1000
Caryptoniyi Citas actions is	Carriedy accounted	und	Lis	23/03/2020	00274	HAUMA	Very Certain (photo,	regular montoring	Signing		INCOUNDER.		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88200	TFAUNA	specimen, expert)	Regular monitoring	Remote camera	1	BARBERTON		1000
							Very Certain (photo,						
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88201	TFAUNA	specimen, expert)	Regular monitoring	Remote camera	1	BARBERTON		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	00702	TEAUNA	Very Certain (photo, specimen, expert)	Regular monitoring	Remote camera		BARBERTON		1000
and the same of th	and a contract			2.4/03/2010			Very Certain (photo,			_			2000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88204	TFAUNA	specimen, expert)	Regular monitoring	Remote camera	0	BARBERTON		1000
							Very Certain (photo,						
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88205	TFAUNA	specimen, expert)	Regular monitoring	Remote camera	1	MOORA		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	RIRD	FN	23/09/2016	99706	TFALINA	Very Certain (photo, specimen, expert)	Regular monitoring	Remote camera	,	MOORA		1000
Caryptornynthus aurosurs	Carnaby scockatoo	BIND	EN	23/09/2016	88200	Trauma	Very Certain (photo,	regular monitoring	Permote carriera	2	MUURA		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88207	TFAUNA	specimen, expert)	Regular monitoring	Remote camera	2	MOORA		1000
							Very Certain (photo,						
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88208	TFAUNA	specimen, expert)	Regular monitoring	Remote camera	2	MOORA		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	RIRD	FN	23/09/2016	99300	TEALINA	Very Certain (photo, specimen, expert)	Regular monitoring	Remote camera	,	MOORA		1000
	Carrierry S COCK4000	MITTER TO SERVICE AND ADDRESS OF THE PERSON	cet	23/US/2016	U.W. U.S	HAVAR	Very Certain (photo,	regular monitoring	remote camera	-	mound		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88210	TFAUNA	specimen, expert)	Regular monitoring	Remote camera	1	MOORA		1000
							Very Certain (photo,						
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88211	TFAUNA	specimen, expert)	Regular monitoring	Remote camera	1	MOORA		1000
	Lancas						Very Certain (photo,						
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88212	TFAUNA	specimen, expert) Very Certain (photo,	Regular monitoring	Remote camera	1	MOORA		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88213	TFAUNA	specimen, expert)	Regular monitoring	Remote camera	1	MOORA		1000
							Very Certain (photo,						
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88214	TFAUNA	specimen, expert)	Regular monitoring	Remote camera	1	MOORA		1000
	Lancas		FN				Very Certain (photo,						
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88215	TFAUNA	specimen, expert) Very Certain (photo,	Regular monitoring	Remote camera	1	MOORA	-	1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88216	TFAUNA	specimen, expert)	Regular monitoring	Remote camera	1	MOORA		1000
				,, 2020						_			1000

NAME SO	NAME COM		CONS CODE		SOURCE ID								ACCURACY M
	-						Very Certain (photo,						
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88218	TFAUNA	specimen, expert) Very Certain (photo.	Regular monitoring	Remote camera	1	MOORA		1000
Calvotorhynchus latirostris	Carnaby's cockatoo	RIRD	EN	23/09/2016	88219	TFALINA	specimen, expert)	Regular Monitoring	Sighting	1	MOORA		1000
							Very Certain (photo,						
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88220	TFAUNA	specimen, expert)	Regular Monitoring	Sighting	1	MOORA		1000
Calvotorhynchus latirostris	Carnaby's cockatoo	RIRD	FN	23/09/2016	00334	TEALINA	Very Certain (photo, specimen, expert)	Regular Monitoring	Sighting		MOORA		1000
Caryptornynchus surosons	Carnaby scockatoo	DIND	EN	23/03/2010	00221	ITAUNA	Very Certain (photo,	Negalar Montoring	agnung		MUURA		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88222	TFAUNA	specimen, expert)	Regular Monitoring	Sighting	1	MOORA		1000
							Very Certain (photo,						
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88223	TFAUNA	specimen, expert) Very Certain (photo,	Regular Monitoring	Sighting	1	MOORA		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88224	TFAUNA	specimen, expert)	Regular Monitoring	Sighting	1	MOORA		1000
							Very Certain (photo,						
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88225	TFAUNA	specimen, expert)	Regular Monitoring	Sighting	1	MOORA		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	RIRD	FN	23/09/2016	88226	TFALINA	Very Certain (photo, specimen, expert)	Regular Monitoring	Sighting	1	MOORA		1000
							Very Certain (photo,		-66				
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88227	TFAUNA	specimen, expert)	Regular Monitoring	Sighting	1	MOORA		1000
Calvotorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	00330	TEAUNA	Very Certain (photo,	Regular Monitoring	Cabara		MOORA		1000
Calyptomyrichus latirostris	Carnaby's cockatoo	BIND	EN	23/09/2016	88228	IFAUNA	specimen, expert) Very Certain (photo,	Regular Monitoring	Sighting	1	MOURA		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88229	TFAUNA	specimen, expert)	Regular Monitoring	Sighting	1	MOORA		1000
							Very Certain (photo,						
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88230	TFAUNA	specimen, expert) Very Certain (photo,	Regular Monitoring	Sighting	1	MOORA		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88231	TFAUNA	specimen, expert)	Regular Monitoring	Sighting	1	MOORA		1000
							Very Certain (photo,						
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/09/2016	88232	TFAUNA	specimen, expert)	Regular Monitoring	Sighting	1	MOORA		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	15/09/2016	99303	TFAUNA	Very Certain (photo, specimen, expert)	Regular Monitoring	Sighting	1	BARBERTON		1000
							Very Certain (photo,						
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	15/09/2016	88233	TFAUNA	specimen, expert)	Regular Monitoring	Sighting	1	MOORA		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	RIRO	EN	21/06/2016	oor ar	TFAUNA	Very Certain (photo, specimen, expert)	Regular monitoring	Remote sensing		Mindarra		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	08/12/2015		FAUNASURVEY	Certain	Survey	Sighting	1	WATHEROO	Moora, Watheroo	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	20/11/2015	1282450	FAUNASURVEY	Certain	Survey	Sighting	1	MOGUMBER	Victoria Plains, Mogumber	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	20/11/2015	1282451	FAUNASURVEY	Certain	Survey	Sighting	1	MOGUMBER	Victoria Plains, Mogumber	100
Carypioniyiichus aurosots	Carriady accession			10/11/2013	1202422	POINGONELI	Cerum	Julyey	allining		modumuck	Victoria Fiama, mogumon	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	20/11/2015	1282452	FAUNASURVEY	Certain	Survey	Sighting	1	MOGUMBER	Victoria Plains, Mogumber	100
		BIRD	EN	20/11/2015		FAUNASURVEY	Certain	Survey			MOGUMBER		
Calyptorhynchus latirostris	Carnaby's cockatoo	BIND	EN	20/11/2015	1282453	FAUNASUKVEY	Certain	Survey	Sighting	1	MOGUMBER	Victoria Plains, Mogumber	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	20/11/2015	1282454	FAUNASURVEY	Certain	Survey	Sighting	1	MOGUMBER	Victoria Plains, Mogumber	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	20/11/2015	1282455	FAUNASURVEY	Certain	Survey	Sighting	1	MOGUMBER	Victoria Plains, Mogumber	100
Calvotorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	20/11/2015	1282456	FAUNASURVEY	Certain	Survey	Sighting	1	MOGUMBER	Victoria Plains, Mogumber	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	26/10/2015	1282357	FAUNASURVEY	Certain	Survey	Sighting	1	GILLINGARRA	Victoria Plains, Jewel Park	100
Calvotorhynchus latirostris	Carnaby's cockatoo	RIRO	EN	18/10/2015	4303337	FAUNASURVEY	Certain	Survey	Sighting	,	REGANS FORD	Dandaragan, Reid Property	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	17/10/2015		FAUNASURVEY	Certain	Survey	Sighting	1		Moora	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	17/10/2015		FAUNASURVEY	Certain	Survey	Sighting	1	MOORA	Moora	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	17/10/2015		FAUNASURVEY	Certain	Survey	Sighting	1	BARBERTON	Moora	100
Calyptorhynchus latirostris	Carnaby's cockatoo		EN	17/10/2015		FAUNASURVEY	Certain	Survey	Sighting	1	BERKSHIRE VALLEY	Moora	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	17/10/2015	1282384	FAUNASURVEY	Certain	Survey	Sighting	1	MOORA	Moora	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	17/10/2015	1282385	FAUNASURVEY	Certain	Survey	Sighting	1	WALEBING	Moora, Popplewell Property	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	12/10/2015	1282367	FAUNASURVEY	Certain	Survey	Sighting	1	MOGUMBER	Victoria Plains, Mogumber	100
Calvotorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	12/10/2015	1707250	FAUNASURVEY	Certain	Survey	Sighting	1	MOGUMBER	Victoria Plains, Mozumber	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	03/10/2015		FAUNASURVEY	Certain	Survey	Sighting	1	BADGINGARRA	Dandaragan, Fearnley	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	03/10/2015	1282350	FAUNASURVEY	Certain	Survey	Sighting	1	BADGINGARRA	Dandaragan, Warialda	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	01/10/2015		FAUNASURVEY	Certain	Survey	Sighting	1	MOORA	Moora, Kerkoff	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	01/10/2015		FAUNASURVEY	Certain	Survey	Sighting	1	MOORA	Moora, Kerkoff	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	01/10/2015		FAUNASURVEY	Certain	Survey	Sighting	1	MOORA	Moora, Kerkoff	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	01/10/2015		FAUNASURVEY	Certain	Survey	Sighting	1	MOORA	Moora, Kerkoff	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	01/10/2015		FAUNASURVEY	Certain	Survey	Sighting	1	MOORA	Moora, Kerkoff	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	01/10/2015		FAUNASURVEY	Certain	Survey	Sighting		MOORA	Moora, Kerkoff	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	01/10/2015		FAUNASURVEY	Certain	Survey	Sighting	1	MOORA	Moora, Kerkoff	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	01/10/2015		FAUNASURVEY	Certain	Survey	Sighting	1	MOORA	Moora	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	01/10/2015		FAUNASURVEY	Certain	Survey	Sighting	1	MOORA	Moora	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	01/10/2015		FAUNASURVEY	Certain	Survey	Sighting	1	MOORA	Moora	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	01/10/2015		FAUNASURVEY	Certain	Survey	Sighting		MOORA	Moora	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	01/10/2015		FAUNASURVEY	Certain	Survey	Sighting	1	MOORA	Moora	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	12/04/2015		TFAUNA	Certain	Community survey	Day sighting	2	Dandaragan	COODON MOOOM	1000
Calyptorhynchus latirostris			EN	16/12/2014		FAUNASURVEY FAUNASURVEY	Certain	Survey	Unknown		COOMBERDALE	COOROW, MOORA	100
Calyptorhynchus latirostris Calyotorhynchus latirostris	Carnaby's cockatoo Carnaby's cockatoo	BIRD BIRD	EN EN	16/12/2014		FAUNASURVEY FAUNASURVEY	Certain Certain	Survey	Unknown Unknown		NAMBAN NAMBAN	COOROW, MOORA COOROW, MOORA	100 100
		BIRD RIRD		16/12/2014		FAUNASURVEY TFALINA		Survey				COUNUW, MOURA	100
Calyptorhynchus latirostris	Carnaby's cockatoo		EN				Moderately certain	Community survey	Secondary sign	U	Mogumber		
Calyptorhynchus latirostris	Carnaby's cockatoo		EN	21/10/2014		TFAUNA	Certain	Opportunistic sighting	Day sighting	1	Mogumber		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	21/10/2014		TFAUNA	Certain	Opportunistic sighting	Day sighting		Mogumber		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	21/10/2014	76051	TFAUNA	Certain	Opportunistic sighting	Day sighting	0	Mogumber		1000
	Carnaby's Cockatoo, White-tailed Short-				l	L						L	1 1
Calyptorhynchus latirostris	billed Black Cockatoo	BIRD	EN		1317741 794	BIRDATA TEALINA	Mandamant, contain	Community	Daniel de la constante de la c	460	Daniel III III III III III III III III III I	Moora Motel	1000
Calyptorhynchus latirostris	Carnaby's cockatoo		EN EN	06/04/2014 10/12/2013		TFAUNA TFAUNA	Moderately certain	Community survey			Dandaragan WALEBING		
Calyptorhynchus latirostris Calyptorhynchus latirostris	Carnaby's cockatoo Carnaby's cockatoo	BIRD	EN EN	28/11/2013		TFAUNA FALINASI IRVEY	Moderately certain Certain	Survey	Day sighting Unknown	60	COOMBERDALE	COOROW MOORA	1000
Calyptomynchus latirostris Calyptorhynchus latirostris	Carnaby's cockatoo		EN	30/10/2013		TFALINA TFALINA	Moderately certain	Survey	Day sighting	e c	GLENTROMIE	COUNTRY, NICURA	1000
Calvotorhynchus latirostris	Carnaby's cockatoo Carnaby's cockatoo	RIRD	EN EN	21/10/2013		TFAUNA TFAUNA	Moderately certain	Survey	Day sighting Day sighting	1	WADDINGTON		1000
Calyptorhynchus latirostris Calyptorhynchus latirostris	Carnaby's cockatoo Carnaby's cockatoo		EN	21/10/2013		TFALINA TFALINA	Moderately certain Moderately certain	Survey		30	DANDARAGAN		1000
many processing and the contract of			100	2 4/ 40/ 40/13					Served				2000

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Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	17/10/2013 75963	TFAUNA	Moderately certain	Survey	Day sighting	200	MOORA		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	29/09/2013 75965	TFAUNA	Moderately certain	Survey	Day sighting	4	BADGINGARRA		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	20/09/2013 75964	TFAUNA	Moderately certain	Survey	Day sighting	30	DANDARAGAN		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	20/09/2013 75967	TFAUNA	Not sure	Survey	Day sighting	1	WATHEROO		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	17/09/2013 75947	TFAUNA	Moderately certain	Survey		12	NEW NORCIA		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	16/09/2013 75962	TFAUNA	Moderately certain	Survey			MOORA		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	13/09/2013 75961	TFAUNA	Moderately certain	Survey	Day sighting	8	MOORA		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	09/09/2013 24618	TEAUNA	Certain	Opportunistic sighting	Day sighting		Mogumber		50
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	22/08/2013 75945	TEALINA	Moderately certain	Survey	Day sighting		REGANS FORD		1000
	Carnaby's Cockatoo, White-tailed Short-		-								Cairn Hill (proposed nature	
Calyptorhynchus latirostris	billed Black Cockatoo	BIRD	EN	21/08/2013 1361217 794	BIRDATA						reserve)	0
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	08/04/2013 24066	TFAUNA	Certain	Community survey	Day sighting	591	Dandaragan		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	07/04/2013 24065	TFAUNA	Certain	Community survey	Day sighting	228	Dandaragan		1000
Calvotorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	03/02/2013 24064	TFAUNA	Certain	Community survey	Day sighting	8	Dandaragan		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	13/01/2013 24063	TFAUNA	Certain	Community survey		204	Dandaragan		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	09/10/2012 527670	FAUNASURVEY	Certain	Survey	Unknown	1	GLENTROMIE	Gunnel, GUNVF01	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	09/10/2012 527936	FAUNASURVEY	Certain	Survey	Unknown	2	YERECOIN	Gunnel, Opportunistic	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	08/10/2012 527742	FAUNASURVEY	Certain	Survey	Unknown	4	YERECOIN	Gunnel, GUNVF03	100
Calvotorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	25/09/2012 51124311794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	NEW NORCIA	New Norcia	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	09/09/2012 24062	TFAUNA	Certain	Community survey			Dandaragan		1000
Calvotorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	05/08/2012 24061	TEAUNA	Certain	Community survey	Day sighting	74	Dandaragan		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	10/06/2012 24060	TFAUNA	Certain	Community survey			Dandaragan		1000
Calvotorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	15/04/2012 24059	TFAUNA	Certain	Community survey			Dandaragan		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	09/10/2011 19241	TFAUNA	Certain	Opportunistic sighting	Dead	1	Dancaragan		50
Caryptoniquents acrosses	Carriery accession	UND	Lit	0.010/2011 13141	IIAUAA	Cerum	Opportunistic allitting	Dead	-			30
Calvotorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	10/09/2011 781317 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	KOOJAN	Kooian Salmon Gum Res	100
Calvotorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	07/04/2011 24074	TFAUNA	Certain	Community survey		22	Regans Ford	According to the second	1000
Calyptorhynchus latirostris Calyptorhynchus latirostris	Carnaby's cockatoo Carnaby's cockatoo	BIRD	EN	24/09/2010 AVIF:37332	WAM BIRDS	WAM Vouchered	Collection	Day signting Specimen		DANDARAGAN	Cataby	1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	01/05/2010 R1294	TFAUNA	Certain	Community survey	Day sighting		Red Gully	Catalog	1000
Calyptorhynchus latirostris Calyptorhynchus latirostris	Carnaby's cockatoo Carnaby's cockatoo	BIRD	EN	01/05/2010 81294	TFAUNA	Certain	Community survey	Day sighting Day sighting		Namban		1000
Calyptornynchus latirostris Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	01/05/2010 81296	TFAUNA TFAUNA	Certain	Community survey			Namban Namban		1000
		BIRD	EN EN	01/05/2010 81297 06/04/2010 19219	TFAUNA TFAUNA			Day sighting	4	reamban		1000
Calyptorhynchus latirostris	Carnaby's cockatoo					Certain	Opportunistic sighting	Day sighting	>			
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN EN	03/01/2010 19866	TFAUNA	Certain	Opportunistic sighting		10			1000
Calyptorhynchus latirostris	Carnaby's cockatoo			03/01/2010 19867	TFAUNA TFAUNA	Not defined Not defined	Opportunistic sighting Opportunistic sighting		10			1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	03/01/2010 19868					100			
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	03/01/2010 19869	TFAUNA	Not defined	Opportunistic sighting		100			1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	07/03/2009 35310	TFAUNA	Certain	Survey		100	REGANS FORD		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	14/10/2008 5065096 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	MOGUMBER	Mogumber Reserve	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	25/09/2008 33630	TFAUNA	Certain	Survey	Day sighting	7	BADGINGARRA		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	06/09/2008 26994	TFAUNA	Certain	Survey	Secondary sign	1	REGANS FORD		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	18/06/2008 33631	TFAUNA	Certain	Survey	Day sighting		BADGINGARRA		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	27/02/2008 5022223 794	BIRDATLAS2	Moderately Certain	Observational	Sighting		REGANS FORD	mogumber farm	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	16/02/2008 29745	TFAUNA	Certain	Survey	Day sighting		MOGUMBER		50
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	06/02/2008 14953	TFAUNA	Certain	Opportunistic sighting	Day sighting		Dandaragan		1000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	22/09/2007 29309	TFAUNA	Certain	Survey	Day sighting	1	REGANS FORD		50
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	20/01/2007 14396	TFAUNA	Certain	Monitoring	Day sighting	3	Regans Ford		50 50
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	20/01/2007 14397	TFAUNA	Certain	Monitoring	Day sighting	3	Mimegarra		50
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	18/01/2007 5014960 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	MOORA	Moora CBH	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	28/10/2006 14395	TFAUNA	Certain	Monitoring	Day sighting	60	Regans Ford		50
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	01/10/2006 14399	TFAUNA	Certain	Monitoring	Secondary sign		Minyulo Nature Reserve		50
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	27/09/2006 476483 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	NEW NORCIA	New Norcia	0
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	24/09/2006 476644 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	NEW NORCIA	New Norcia	500
Calvotorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	20/09/2006 14394	TFAUNA	Certain	Monitorine	Day sighting	4	Regans Ford		50
Calvotorhynchus latirostris	Carnaby's cockatoo	RIRD	EN	20/12/2005 4620261794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	GILLINGARRA	Fern Rd, Piesse Brook??	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	16/09/2005 458417 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	NEW NORCIA	New Norcia	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	13/09/2005 4604811794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	WALEBING	Popplewell's Farm	5000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	13/09/2005 460482 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	WALEBING	Humphrey's Farm	500
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	31/08/2005 455743 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	WADDINGTON	Walebing NR camp	100
Caryptonynchus across is	Carriaby accession	und	LIN	32/00/2003 433/43/734	DINDRIDGE			agrining		WADDINGTON	Walioning len Camp	100
Calyptorhynchus latirostris	Carnaby's cockatoo											
Calvotorhynchus latirostris			rai .	25 (00 (2005 5000200) 70 4	DIDDATIACO	Madamata Catala		Cabalan			Oncome Front Broad House	400
	Consolis de contratas	BIRD	EN	25/08/2005 5000288 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	REGANS FORD	Reagans Ford, Brand Hwy	100
Calumtorhumchur Intiractric	Carnaby's cockatoo	BIRD	EN	13/11/2004 9767	TFAUNA	Certain	Targeted survey	Day sighting	1	Waddington	Reagans Ford, Brand Hwy	500
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN EN	13/11/2004 9767 13/11/2004 9770	TFAUNA TFAUNA	Certain Certain	Targeted survey Targeted survey	Day sighting Day sighting	1	Waddington Waddington	Reagans Ford, Brand Hwy	500 500
Calyptorhynchus latirostris	Carnaby's cockatoo Carnaby's cockatoo	BIRD BIRD BIRD	EN EN EN	13/11/2004 9767 13/11/2004 9770 13/11/2004 9771	TFAUNA TFAUNA TFAUNA	Certain Certain Certain	Targeted survey Targeted survey Targeted survey	Day sighting Day sighting Day sighting		Waddington Waddington Waddington	Reagans Ford, Brand Hwy	500 500 500
Calyptorhynchus latirostris Calyptorhynchus latirostris	Carnaby's cockatoo Carnaby's cockatoo Carnaby's cockatoo	BIRD BIRD BIRD BIRD	EN EN EN	13/11/2004 9767 13/11/2004 9770 13/11/2004 9771 12/11/2004 9768	TFAUNA TFAUNA TFAUNA TFAUNA	Certain Certain Certain Certain	Targeted survey Targeted survey Targeted survey Targeted survey	Day sighting Day sighting Day sighting Day sighting		Waddington Waddington Waddington Waddington	Reagans Ford, Brand Hwy	500 500 500 500
Calyptorhynchus latirostris Calyptorhynchus latirostris Calyptorhynchus latirostris	Carnaby's cockatoo Carnaby's cockatoo Carnaby's cockatoo Carnaby's cockatoo	BIRD BIRD BIRD BIRD BIRD	EN EN EN EN	13/11/2004 9767 13/11/2004 9770 13/11/2004 9771 12/11/2004 9768 12/11/2004 9769	TFAUNA TFAUNA TFAUNA TFAUNA TFAUNA	Certain Certain Certain Certain Certain Certain	Targeted survey Targeted survey Targeted survey Targeted survey Targeted survey Targeted survey	Day sighting Day sighting Day sighting Day sighting Day sighting Day sighting		Waddington Waddington Waddington Waddington Waddington	Reagans Ford, Brand Hwy	500 500 500 500 500
Calyptorhynchus latirostris Calyptorhynchus latirostris Calyptorhynchus latirostris Calyptorhynchus latirostris	Carnaby's cockateo Carnaby's cockateo Carnaby's cockateo Carnaby's cockateo Carnaby's cockateo Carnaby's cockateo	BRD BRD BRD BRD BRD BRD BRD	EN EN EN EN EN	13/11/2004 9767 13/11/2004 9770 13/11/2004 9771 12/11/2004 9768 12/11/2004 9769 01/10/2004 9773	TFAUNA TFAUNA TFAUNA TFAUNA TFAUNA TFAUNA TFAUNA	Certain Certain Certain Certain Certain Certain Certain	Targeted survey	Day sighting Day sighting Day sighting Day sighting Day sighting Day sighting		Waddington Waddington Waddington Waddington Waddington Moora	Reagans Ford, Brand Hwy	500 500 500 500 500 1000
Calyptorhynchus latirostris Calyptorhynchus latirostris Calyptorhynchus latirostris Calyptorhynchus latirostris Calyptorhynchus latirostris Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD BIRD BIRD BIRD BIRD BIRD BIRD BIRD	EN E	13/11/2004 9767 13/11/2004 9770 13/11/2004 9771 12/11/2004 9768 12/11/2004 9769 01/10/2004 9773 28/08/2004 36596	TFAUNA TFAUNA TFAUNA TFAUNA TFAUNA TFAUNA TFAUNA TFAUNA TFAUNA	Certain Certain Certain Certain Certain Certain Certain Certain	Targeted survey Survey	Day sighting		Waddington Waddington Waddington Waddington Waddington Waddington Moora WALEBING	Reagans Ford, Brand Hwy	500 500 500 500 500 500 1000
CalyptorMynchus Litrostris	Carnaby's cockatoo	BIRD BIRD BIRD BIRD BIRD BIRD BIRD BIRD	EN EN EN EN EN EN EN	13/11/2004 9767 13/11/2004 9770 13/11/2004 9771 13/11/2004 9768 12/11/2004 9769 01/10/2004 9773 28/08/2004 36596 28/08/2004 36597	TFAUNA	Certain	Targeted survey Survey Survey	Day sighting	10 2 4	Waddington Waddington Waddington Waddington Waddington Waddington Moora WALEBING WALEBING	Reagans Ford, Brand Hwy	500 500 500 500 500 1000 1000 1000
Calystomlynchus bitriostris	Carnaby's cockatoo	BIRD BIRD BIRD BIRD BIRD BIRD BIRD BIRD	EN E	13/11/2004 9767 13/11/2004 9770 13/11/2004 9771 13/11/2004 9773 12/11/2004 9768 12/11/2004 9769 01/10/2004 9773 28/08/2004 36596 28/08/2004 36596	TFAUNA	Cortain	Tangened survey Survey Survey Survey Survey Survey	Day sighting	10 2 4	Waddington Waddington Waddington Waddington Waddington Waddington Waddington Moora WALERING WALERING NEW NORCIA	Reagans Ford, Brand Hwy	500 500 500 500 500 1000 1000 1000
Calystorhyechus latinostris	Carnaby's cackatoo	BIRD BIRD BIRD BIRD BIRD BIRD BIRD BIRD	EN E	13/11/2004 9767 13/11/2004 9770 13/11/2004 9770 13/11/2004 9771 12/11/2004 9768 12/11/2004 9769 12/11/2004 9769 12/11/2004 3773 28/08/2004 36597 28/08/2004 36904 28/08/2004 36904	TFAUNA	Certain	Tangened survey Survey Survey Survey Survey Survey Survey	Day sighting	10 2 4 2 3	Waddington Waddington Waddington Waddington Waddington Moora Wadelsen Moora WALEBING WALEBING NEW NORCIA NEW NORCIA	Reagans Ford, Brand Hwy	500 500 500 500 500 1000 1000 1000 1000
Calypton hydrock billeroddris Calypton hydrock bildroddris	Carnaby's cockatoo	BIRD BIRD BIRD BIRD BIRD BIRD BIRD BIRD	EN E	13/11/2004 9767 13/11/2009 9770 13/11/2009 9771 13/11/2004 9788 12/11/2004 9788 01/10/2004 9789 01/10/2004 9773 28/08/2004 9773 28/08/2004 36596 28/08/2004 36905 28/08/2004 36905	TFALINA	Cortain	Targeted survey Targeted survey Targeted survey Targeted survey Targeted survey Targeted survey	Day sighting	10 2 4 2 3	Waddington Waddington Waddington Waddington Waddington Waddington Moora Moora WALERING WALERING WALERING NEW NORCIA NEW NORCIA NEW NORCIA	Reagans Ford, Brand Hwy	500 500 500 500 500 1000 1000 1000 1000
Calypton hydrochus Listoratris	Carnaby's cockatoo	SIRD SIRD SIRD SIRD SIRD SIRD SIRD SIRD	EN E	13/11/2004 9767 13/11/2004 9770 13/11/2004 9771 13/11/2004 9788 11/2/11/2004 9788 12/11/2004 9788 12/11/2004 9789 01/10/2004 9773 28/08/2004 36597 28/08/2004 36597 28/08/2004 36505 28/08/2004 36505 28/08/2004 36505	TFALINA	Certain	Targened survey	Day sighting	10 2 4 2 3 2	Waddington Waddington Waddington Waddington Waddington Waddington Moora WALEBHG MOORA WALEBHG NEW NORCLA NEW NORCLA NEW NORCLA NEW NORCLA NEW NORCLA		500 500 500 500 500 1000 1000 1000 1000
Calyptorhychus bistocatris	Carnally's coctation	BIRD BIRD BIRD BIRD BIRD BIRD BIRD BIRD	EN E	13/11/2004 9/87 13/11/2004 9770 13/11/2004 9771 13/11/2004 9788 12/11/2004 9788 12/11/2004 9788 12/11/2004 9789 12/10/2004 9783 15/98/2004 36597 28/08/2004 36597 28/08/2004 36905 28/08/2004 36905 28/08/2004 36905 28/08/2004 36906	TFALINA	Cortain Certain	Targeted survey	Day sighting	10 2 4 2 3 3 2	Waddington Waddington Waddington Waddington Waddington Waddington Waddington Waddington Macora Waterink Walterink Walterink New Noricia New Noricia New Noricia New Noricia New Noricia New Noricia	Bindoon - Moora Road	500 500 500 500 500 1000 1000 1000 1000
Calypton hydrochus Listoratris	Carnaby's cockatoo	SIRD SIRD SIRD SIRD SIRD SIRD SIRD SIRD	EN E	13/11/2004 9767 13/11/2004 9770 13/11/2004 9771 13/11/2004 9788 11/2/11/2004 9788 12/11/2004 9788 12/11/2004 9789 01/10/2004 9773 28/08/2004 36597 28/08/2004 36597 28/08/2004 36505 28/08/2004 36505 28/08/2004 36505	TFALINA	Certain	Targened survey	Day sighting	10 2 4 2 3 3 2	Waddington Waddington Waddington Waddington Waddington Waddington Moora WALEBHG MOORA WALEBHG NEW NORCLA NEW NORCLA NEW NORCLA NEW NORCLA NEW NORCLA		500 500 500 500 500 1000 1000 1000 1000
Calpathophysics is strategies (Appathophysics is strategies (Appat	Carmaby's cockateo	SRD	EN E	13/11/2004 9/87 1 31/11/2004 9/70 1 31/11/2004 9/70 1 31/11/2004 9/70 1 31/11/2004 9/70 1 31/11/2004 9/70 1 31/11/2004 9/70 1 31/11/2004 9/70 1 31/11/2004 9/70 1 31/11/2004 9/70 1 31/11/2004 9/70 1 31/11/2004 9/70 1 31/11/2004 9/70 1 31/11/2004 9/70 1 31/11/2004 9/70 1 31/11/2004 9/70 1 31/11/2004 3/11/20	TFALINA	Cortain Moderately Cortain Moderately Cortain	Tangend survey Observational Observational	Day sighting Say sighting Say sighting Say sighting Sighting Sighting Sighting	10 2 4 2 2 3 2 3	Waddington Waddington Waddington Waddington Waddington Waddington Waddington Mucrora Wateriah Moorra WALERHO NEW MORELA NEW MORELA NEW MORELA GELINGARRA GELINGARRA	Bindoon - Moora Road Jowel Park Farm	500 500 500 500 500 1000 1000 1000 1000
Calyptorhychus bistocatris	Carnally's coctation	BIRD BIRD BIRD BIRD BIRD BIRD BIRD BIRD	EN E	13/11/2004 9/87 13/11/2004 9770 13/11/2004 9771 13/11/2004 9788 12/11/2004 9788 12/11/2004 9788 12/11/2004 9789 12/10/2004 9783 15/98/2004 36597 28/08/2004 36597 28/08/2004 36905 28/08/2004 36905 28/08/2004 36905 28/08/2004 36906	TFALINA	Cortain Certain	Targeted survey	Day sighting	10 2 4 2 2 3 2 3	Waddington Waddington Waddington Waddington Waddington Waddington Waddington Waddington Macora Waterink Walterink Walterink New Noricia New Noricia New Noricia New Noricia New Noricia New Noricia	Bindoon - Moora Road	500 500 500 500 500 1000 1000 1000 1000
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Calpathophysica straterist Ca	Carmaly's cockateo	SIRD SIRD SIRD SIRD SIRD SIRD SIRD SIRD	EN E	13/11/2004 9/87 13/11/2004 9/87 13/11/2004 9/70 13/11/2004 9/70 13/11/2004 9/70 13/11/2004 9/708 11/11/2004 9/708 11/11/2004 9/708 11/11/2004 9/708 11/11/2004 9/708 11/11/2004 9/709 11/11/2004 9/709 11/11/2004 9/709 11/11/2003 418339 1/704 11/11/2003 418339 1/704 11/11/2003 418339 1/704 11/11/2003 418339 1/704 11/11/2003 418339 1/704	TFALINA SERDATIAS BERDATIAS BERDATIAS BERDATIAS BERDATIAS BERDATIAS BERDATIAS	Cortain Moderately Cortain	Targeted survey Observational Observational Observational Observational	Doy sighting Soy sighting Sighting Sighting Sighting Sighting Sighting Sighting Sighting Sighting	10 2 4 2 3 3 1 1 1	Woodington Woodington Woodington Woodington Woodington Woodington Moona WOODINGTON WOODING	Bindoon - Moora Road Jewel Park Farm Gillingara - New Norcia Road Maguntha/New Norcia Rd Goondentbie Farm Waldeling Farm	500 500 500 500 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000
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Calgetonychica strateria: Calgetonychica strate	Combiny Contains Controlly Contains Controlly Contains Controlly C	68RD 68RD 68RD 68RD 68RD 68RD 68RD 68RD	EN E	18/11/2006 (PRF)	TRAUNA	Cortain Model Cortain Cor	Targeted survey Survey Survey Survey Survey Survey Observational	Doy sighting Soy sighting Soy sighting	110 2 4 4 2 2 3 3 2 2 3 3 1 1 1 1 1 1 1 1 1 1 1 1	Wasdington Wasdington Wasdington Wasdington Wasdington Wasdington Manager Mana	Biodoon - Moora Road Jeesel Park Farm Gelegarra - New Nooria Road Magumba/New Nooria Rid Goostorkolde Farm Walshing Roadhouse Walshing Roadhouse	500 500 500 500 500 500 1000
Calysterbuydus autocorse Calysterbuydus autoco	Combiny Contration Combiny Contr	### ### ### ### ### ### ### ### ### ##	EN E	18/11/2006 (PRF) 18/11/	THAUNA TH	Cortain Modorarety Cortain Cortain	Targeted curvey Survey Survey Survey Survey Survey Survey Observational Observational Observational Observational Observational Observational Observational Observational	Doy sighting	100 2 2 4 4 2 2 3 3 2 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 0 0	Woodsrighton WOODS	Bindoon-Moors Road investribut Road investribut Road Gillingera - New Norcia Road Magarith New Norcia Rd Goodselfatter Fare Washing Fare Washing Fare Washing Fare Washing Road Washing Norcia Washing	500 500 500 500 500 500 1000 1000 1000
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Calystomychia utrosoria	Combiny Contribute Contributy Contributy Contributy Contributy Contributy Contributy Contributy Contribute Con	6 MRD 6	EN	18/11/2006 (PRF)	TRAUNA TR	Certain Moderately Certain Moderately Certain Moderately Certain Moderately Certain Moderately Certain Moderately Certain Cert	Targeted survey	Doy sighting Soy sighting Sighting Sighting Sighting Sighting Sighting Sighting Doy sighting Doy sighting Doy sighting Doy sighting Doy sighting Doy sighting Sigh	100 2 2 4 4 2 2 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Wasdington Wasdin	Bindoon-Moors Road investribut Road investribut Road Gillingera - New Norcia Road Magarith New Norcia Rd Goodselfatter Fare Washing Fare Washing Fare Washing Fare Washing Road Washing Norcia Washing	500 500 500 500 500 500 1000 1000 1000
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Calgebrayenia usteenen (Aggebrayenia usteenen	Combiny Contained	810 810 810 810 810 810 810 810 810 810	EN E	1911/2009 (PRF) 1111/2009 (PRF	TRAUNA TR	Certain Moderately Certain Moderately Certain Moderately Certain Certain Certain Moderately Certain Certain Certain Moderately Certain	Targeted survey Targeted surve	Day sighting Say sighting	110 2 2 4 2 2 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WALFIELD WALFELD WALFE	Biodon- Moora Road Biodon- Moora Road Gelingera - Item Noroia Road Magumbhilew Noroia Ma Condendibler Jam Monistary Personal Woldong Roadhood Woldong Roadhood Woldong Roadhood Woldong Roadhood Woldong Roadhood Woldong Roadhood Staffen Roadhood Woldong Roadhood Staffen Roadhood Staffen Roadhood Staffen Roadhood Gelingera	500 500 500 500 500 500 1000 1000 1000
Calysterbyechts a testerist (Aypterbyechts a testerist (Combiny Contained Controlly Contained Controlly Contained Controlly Controlled	880 880 880 880 880 880 880 880 880 880	EN	1911/1009 (PR) 1911/1	TRAUMA TR	Certain Moderately Certain Moderately Certain	Targeted survey Targeted survey Targeted survey Targeted survey Targeted survey	Dor spierce Do	100 22 44 22 33 11 11 11 11 11 12 22 20 01 11 11 12 12 26 66	Wasdington Wasdin	Bindoon - Moore Road lessed from It was November - Broad lessed from It was November - Broad Magazina - New November - Broad Magazina - Broad - Broad Magazina	500 500 500 500 500 500 1000 1000 1000
Calyptomychia utsesseria	Combiny Contration	8100 8100 8100 8100 8100 8100 8100 8100	EN EN EN EN EN EN EN EN	18/11/2006 (PRF) 18/11/	TRAUNA TR	Cortain Cortain Certain Modelarsky Certain Certain Modelarsky Certain Certain Modelarsky Certain Certain Modelarsky Certain Modelarsky Certain	Targeted survey Largeted survey Coheronational Coheronat	Dor spierce Dorspierce Dors	100 22 4 4 23 3 2 2 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1	Wasdington Wasdin	Bindoon Moore Road Asses from New Moore Road Assess from New Moore Road Magarine New Moore Road Magarine New Moore Road Magarine New Moore Road Magarine New Moore Ma	\$00 \$00 \$00 \$00 \$100 \$1000 \$1000 \$1000 \$1000 \$1000 \$1000 \$100
Calysterbyechts a testerist (Aypterbyechts a testerist (Combiny Contained Controlly Contained Controlly Contained Controlly Controlled	880 880 880 880 880 880 880 880 880 880	EN	1911/1009 (PR) 1911/1	TRAUMA TR	Certain Moderately Certain Moderately Certain	Targeted survey Targeted survey Targeted survey Targeted survey Targeted survey	Dor spierce Do	100 22 4 4 22 23 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Wasdingson	Bindoon Moora Road Bindoon Moora Road Gellingerra - Item Norola Road Magumbhiliken Norola Ma Condendibler Jam Monistory Personal Woldship Realmood Woldship Realmood Woldship Realmood	\$00 \$00 \$00 \$00 \$100 \$100 \$100 \$100 \$10

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Calvotorhynchus latirostris	Carnaby's cockatoo	RIRD	FN	10/08/2002	289845 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	KODIAN	Poison paddock, New Norcia	100
			-					-					
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN		289846 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	NEW NORCIA	Moore River walk, New Norcia	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN		283246 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	YATHROO	Capitella Rd	5000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	03/01/2002	9717	TFAUNA	Certain	Community survey	Day sighting	20	Glentromie		1000
												Wolba Road & Badeingarra	
Calyptorhynchus latirostris	Carnaby's cockatoo	RIRD	FN	20/11/2001	262539 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	DANDARAGAN	Road junction	500
Calvotorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	25/11/2001		TFAUNA	Certain	Community survey	Day sighting	4	Gillingarra	nosu junction	500
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	25/11/2001		TFAUNA	Certain	Community survey	Day sighting	5	Gilingarra		500
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	25/11/2001		TFAUNA	Certain	Community survey	Day sighting	6	Gilingarra		500
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	25/11/2001	9652	TFAUNA	Certain	Community survey	Day sighting	4	Gillingarra		50
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	25/11/2001		TFAUNA	Certain	Community survey	Day sighting	34	Gillingarra		50
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/11/2001		TFAUNA	Certain	Community survey	Day sighting	40	Gillingarra		50
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/11/2001	9653	TFAUNA	Certain	Community survey	Day sighting	3	Gillingarra		50
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/11/2001		TFAUNA	Certain	Community survey	Day sighting	6	Gillingarra		50
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	22/11/2001		TFAUNA	Certain	Community survey	Day sighting	4	Gillingarra		50
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	22/11/2001	9647	TFAUNA	Certain	Community survey	Day sighting	20	Gillingarra		50
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD BIRD	EN	21/11/2001		TFAUNA TFAUNA	Certain	Community survey	Day sighting	35	Gilingarra		50 50
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	21/11/2001		TFAUNA	Certain	Community survey	Day sighting	4	Gillingarra		50
Calyptorhynchus latirostris Calyptorhynchus latirostris	Carnaby's cockatoo Carnaby's cockatoo	BIRD	EN EN	18/11/2001		TFAUNA	Certain Certain	Community survey Community survey	Day sighting Day sighting	12	Gillingarra Dandaragan		50
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	18/11/2001		TFAUNA	Certain	Community survey	Day sighting	2	Minyulo Nature Reserve		50
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	15/11/2001	9641	TFAUNA	Certain	Community survey	Day sighting	2	Gillingarra		50
Calvotorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	08/11/2001		TFAUNA	Certain	Community survey	Day sighting	2	Walebing		500
Calvotorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	08/11/2001		TFAUNA	Certain	Community survey	Day sighting	4	Walebing		500
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	08/11/2001		TFAUNA	Certain	Community survey	Day sighting	5	Walebing		500
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	08/11/2001		TFAUNA	Certain	Community survey	Day sighting	3	Walebing		50
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	07/11/2001		TFAUNA	Certain	Community survey	Day sighting	1	Walebing		500
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	07/11/2001		TFAUNA	Certain	Community survey	Day sighting	2	Walebing		500
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	07/11/2001		TFAUNA	Certain	Community survey	Day sighting	4	Walebing		500
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	07/11/2001		TFAUNA	Certain	Community survey	Day sighting	2	Walebing		500
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	07/11/2001		TFAUNA	Certain	Community survey	Day sighting	1	Walebing		500
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	07/11/2001		TFAUNA	Certain	Community survey	Day sighting	2	Walebing		500
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	07/11/2001		TFAUNA	Certain	Community survey	Day sighting	2	Walebing		500
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	07/11/2001		TFAUNA TFAUNA	Certain	Community survey	Day sighting	14	Walebing		500
Calyptorhynchus latirostris Calyptorhynchus latirostris	Carnaby's cockatoo Carnaby's cockatoo	BIRD	EN EN	07/11/2001	9612	TFAUNA TFAUNA	Certain	Community survey	Day sighting	4	Walebing		500 500
Calvotorhynchus latirostris	Carnaby's cockatoo Carnaby's cockatoo	BIND	EN EN	02/11/2001		TFAUNA TFAUNA	Certain	Community survey Community survey	Day sighting Day sighting	2	Walebing		500
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	02/11/2001		TFAUNA	Certain	Community survey	Day sighting	1	Moora		500
Caryptornynthus aurosons	Carnaby s cockatoo	BIND	EN	02/11/2001	9/16	ITAUNA	Cerum	Community survey	Dwy signerig	1	Modra		300
												Wolba Road & Badgingarra	
Calvotorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	31/10/2001	262538 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	DANDARAGAN	Road junction	500
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	31/10/2001	9598	TFAUNA	Certain	Community survey	Day sighting	3	Walebing		500
Calvotorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	31/10/2001	9599	TFAUNA	Certain	Community survey	Day sighting	1	Walebing		500
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	31/10/2001	9600	TFAUNA	Certain	Community survey	Day sighting	4	Walebing		500
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	31/10/2001		TFAUNA	Certain	Community survey	Day sighting	2	Walebing		500
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	31/10/2001	9602	TFAUNA	Certain	Community survey	Day sighting	1	Walebing		500
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	17/10/2001	181851 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	PIAWANING	Plawaning Nature Reserve	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN		187119 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	MOORA	Midlands Road, Moora	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	01/10/2001		TFAUNA	Certain	Community survey	Day sighting	1	Watheroo		500
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	30/09/2001	186717 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	BADGINGARRA	Mullering Road	100
												Wolba Road & Badgingarra	
Calvotorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	20/00/2004	262537 794	BIRDATLAS2	Moderately Certain	Observational	Sighting		DANDARAGAN	Road junction	500
Calvotorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	20/09/2001		TFAUNA	Certain	Community survey	Day sighting	2	Moora	Road junction	1000
Calyntorhynchus latinostris	Carnaby's cockatoo	RIRD	FN		1728041794	RIRDATIASZ	Moderately Certain	Observational	Sighting	1	MOORA	Moora Cemetery	5000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	01/09/2001		TFAUNA	Certain	Community survey	Day sighting	5	Bindi Bindi	moora cemetery	1000
			-				-						
			1			1		1		1		Wolba Road & Badgingarra	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	31/08/2001	2625361794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	DANDARAGAN	Road junction	500
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	20/08/2001	172918 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	WALEBING	Great Northern Hwy	100
										T			
			1			1		1		1		New Norcia nature Reserve,	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	19/08/2001	187197 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	WADDINGTON	Great Northern Hwy	100
	L		IL.		l	L	L	L	L	I.	I	L	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	10/08/2001	187190 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	NEW NORCIA	Moore River, New Norcia	100
Calyptorhynchus latirostris	Carnaby's cockatoo	RIRD	FN	04/09/2004	1867021794	BIRDATLAS2	Moderately Certain	Observational	Sighting	,	MINDARRA	Mogumber Nature Reserve	100
Calyptorhynchus latirostris Calyptorhynchus latirostris	Carnaby's cockatoo Carnaby's cockatoo	BIRD	EN		1558341794	BIRDATLAS2	Moderately Certain Moderately Certain	Observational	Sighting	1	NEW NORCIA	Mogumber Nature Reserve New Norcia	100
Carry processing in March 18 and 18 a	Carnaby's cockatoo	anu	LN	J3/U//2001	A J 0004 734	UMURI DASZ	woderately Certain	COMPREDENT	-Munik	4	NEW HOREIA	recent redition	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	19/04/2004	2675841794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	REGANS FORD	Reagans Ford, Brand Hwy	500
	Carriery accession	AT THE		23,04,200	22/304/734				-grang	1		go.ter oro, scena riwy	500
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	18/04/2001	1420651794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	RED GULLY	Wireless Hill Park, Ardross	500
			-						- Jones	1			
			1			1		1		1		Wolba Road & Badgingarra	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	28/02/2001	2625331794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	DANDARAGAN	Road junction	500
			1			1		1		1		Wolba Road & Badgingarra	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN		127558 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	DANDARAGAN	Road junction	500
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	13/01/2001	133751 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	DANDARAGAN	Minyulo Brook	100
			1			1		1		1		Wolba Road & Badgingarra	1
		BIRD	EN	31/12/2000	127557 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	DANDARAGAN	Road junction	500
Calyptorhynchus latirostris	Carnaby's cockatoo												
Calyptorhynchus latirostris	Carnaby's cockatoo												1
												Wolba Road & Badgingarra	
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN		127556 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	DANDARAGAN	Road junction	
Calyptorhynchus latirostris Calyptorhynchus latirostris	Carnaby's cockatoo Carnaby's cockatoo	BIRD	EN	18/11/2000	141808 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	PIAWANING	Road junction Plawaning	100
Calyptorhynchus latirostris Calyptorhynchus latirostris Calyptorhynchus latirostris	Carnaby's cockatoo Carnaby's cockatoo Carnaby's cockatoo	BIRD	EN EN	18/11/2000 18/11/2000	141808 794	BIRDATLAS2 BIRDATLAS2	Moderately Certain Moderately Certain	Observational Observational	Sighting Sighting	1 1 1	PIAWANING PIAWANING	Road junction Plawaning Plawaning	500 100 100
Calyptorhynchus latirostris Calyptorhynchus latirostris Calyptorhynchus latirostris Calyptorhynchus latirostris	Carnaby's cockatoo Carnaby's cockatoo Carnaby's cockatoo Carnaby's cockatoo	BIRD BIRD BIRD	EN EN	18/11/2000 18/11/2000 12/11/2000	141808 794 141809 794 113552 794	BIRDATLAS2 BIRDATLAS2 BIRDATLAS2	Moderately Certain Moderately Certain Moderately Certain	Observational Observational Observational	Sighting Sighting Sighting	1 1 1	PIAWANING PIAWANING MOORA	Road junction Plawaning Plawaning Cairn Hill	100 100
Calyptorhynchus latirostris Calyptorhynchus latirostris Calyptorhynchus latirostris Calyptorhynchus latirostris Calyptorhynchus latirostris	Carnaby's cockatoo Carnaby's cockatoo Carnaby's cockatoo Carnaby's cockatoo Carnaby's cockatoo	BIRD BIRD BIRD BIRD	EN EN EN	18/11/2000 18/11/2000 12/11/2000 12/11/2000	141808 794 141809 794 113552 794 113555 794	BIRDATLAS2 BIRDATLAS2 BIRDATLAS2 BIRDATLAS2	Moderately Certain Moderately Certain Moderately Certain Moderately Certain	Observational Observational Observational Observational	Sighting Sighting Sighting Sighting	1 1 1 1	PIAWANING PIAWANING MOORA GILLINGARRA	Road junction Plawaning Plawaning Cairn Hill Gillingarra Road	100 100 100 100
Callyptorhynchus latinostris Callyptorhynchus latinostris Callyptorhynchus latinostris Callyptorhynchus latinostris Callyptorhynchus latinostris Callyptorhynchus latinostris Callyptorhynchus latinostris Callyptorhynchus latinostris Callyptorhynchus latinostris Callyptorhynchus latinostris Callyptorhynchus latinostris Callyptorhynchus latinostris	Carnaby's cockatoo Carnaby's cockatoo Carnaby's cockatoo Carnaby's cockatoo	BIRD BIRD BIRD	EN EN	18/11/2000 18/11/2000 12/11/2000 12/11/2000 11/11/2000	141808 794 141809 794 113552 794	BIRDATLAS2 BIRDATLAS2 BIRDATLAS2	Moderately Certain Moderately Certain Moderately Certain	Observational Observational Observational	Sighting Sighting Sighting	1 1 1 1 1 1 1 1	PIAWANING PIAWANING MOORA	Road junction Plawaning Plawaning Cairn Hill	100 100

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Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN		113531 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	MOORA	Cairn Hill	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	08/10/2000	122262 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	MOORA	Moora	500
												Wolba Road & Badgingarra	
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	30/09/2000	113599 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	DANDARAGAN	Road junction	500
												Waddington Nature Reserve.	
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	17/09/2000	107274 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	WADDINGTON	Great Northern Hwy	100
			-	2.72.72.2					-66				
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	09/09/2000	105472 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	REGANS FORD	Regans Ford, Brand Hwy	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	27/08/2000	107114 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	MOORA	Cairn Hill	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	27/08/2000	93349 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	WALEBING	Great Northern Hwy	100
		RIRD											
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	27/08/2000	93350 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	WADDINGTON	Waddington Nature Reserve	100
												Great Northern Hwy, Seven	
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	27/08/2000	022511204	BIRDATLAS2	Moderately Certain	Observational	Sighting		YARAWINDAH	Mile Well Nature Reserve	100
Caryptoniyitalia ilitirosoti	Carriery accession	uno	Lit	27/00/2000	33331 134	DINDRIDGE	moderately Certain	COSCIVACIONAL	agning	-	TANAL INDEXT	Mile Well Halland Head Ve	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	20/08/2000	998111794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	COOMBERDALE	Midlands Road, Comberdale	5000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/07/2000	90013 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	MOGUMBER	Midlands Road	500
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	20/11/1999	65198 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	MOGUMBER	Mogumber Nature Reserve	100
		BIRD	EN	20/11/1999		BIRDATLAS2					MINDARRA		100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	20/11/1999	65199 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	MINDARRA	Midlands Road, Mogumber	100
Calvotorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	20/10/1000	418421794	BIRDATLAS2	Moderately Certain	Observational	Sighting		NEW NORCIA	Sewage ponds. New Norcia	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	29/10/1999		BIRDATLAS2	Moderately Certain	Observational	Sighting	1	GLENTROMIE	Great Northern Hwy	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	25/10/1999	47598 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	REGANS FORD	Regards Ford	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	19/09/1999		BIRDATLAS2	Moderately Certain	Observational	Sighting	1	NEW NORCIA	New Norcia	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	18/09/1999	33834 794	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	REGANS FORD	Reagans Ford, Moore River	100
Calvotorhynchus latirostris	Carnaby's cockatoo	BIRD	_		448811794	BIRDATLAS2	Moderately Certain	Observational	Sighting		PIAWANING	Plawaning Nature Reserve	100
		BIRD	EN EN			BIRDATLAS2 BIRDATLAS2				1			
Calyptorhynchus latirostris Calyotorhynchus latirostris	Carnaby's cockatoo Carnaby's cockatoo	BIRD	EN	24/04/1999		WAM BIRDS	Moderately Certain WAM Vouchered	Observational Collection	Sighting Specimen	1	DANDARAGAN MOORA	Dandaragan Dalaroo	5000 10000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	FN	13/02/1997		WAM BIRDS	WAM Vouchered	Collection	Specimen	1	RED GULLY	Gingin; shire	10000
				20,00,00	urrclsid taxonomy					-			
	Carnaby's Cockatoo, White-tailed Short-				.org.au:AVIE:2717								
Calyptorhynchus latirostris	billed Black Cockatoo	BIRD	EN	13/02/1997	4	WAM_BIRDS						Gingin; shire	5
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	18/12/1996		WAM_BIRDS	WAM Vouchered	Collection	Specimen	1	RED GULLY	Gingin; shire	5
					urn:lsid:taxonomy								
	Carnaby's Cockatoo, White-tailed Short-	RIRD			.org.au:AVIF:2717								_
Calyptorhynchus latirostris Calyotorhynchus latirostris	billed Black Cockatoo Carnaby's cockatoo	BIRD	EN EN	18/12/1996 22/10/1996		WAM_BIRDS WAM_BIRDS	WAM Vouchered	Collection	Specimen		PIAWANING	Gingin; shire PIAWANING	5
Calyptorhynchus latirostris Calyptorhynchus latirostris	Carnaby's cockatoo Carnaby's cockatoo	BIND	EN	12/09/1996		WAM_BIRDS	WAM Vouchered WAM Vouchered	Collection	Specimen Specimen	1	MOORA	Moora; near	10000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN		AVIF28184	WAM BIRDS	WAM Vouchered	Collection	Specimen	1	MOORA	Moora	5
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	01/06/1996		WAM BIRDS	WAM Vouchered	Collection	Specimen	1	MOORA	Moora; area	10000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	23/10/1983	10226	TFAUNA	Certain	Survey	Day sighting	30	Bundarra Nature Reserve		1000
											Orange Springs/Red Gully		10000
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	06/07/1983	10252	TFAUNA	Certain	Opportunistic sighting					
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	EN	01/01/1920	3791	TFAUNA	Moderately certain	Historical (written)	Day sighting	10	Watheroo		10000
Calyptorhynchus latirostris Calyptorhynchus latirostris	Carnaby's cockatoo Carnaby's cockatoo	BIRD BIRD	EN EN	01/01/1920	3791 3792	TFAUNA TFAUNA							10000 10000
Calyptorhynchus latirostris Calyptorhynchus latirostris Calyptorhynchus sp. 'white-tailed black cockatoo'	Carnaby's cockatoo Carnaby's cockatoo white-tailed black cockatoo	BIRD BIRD BIRD	EN EN EN	01/01/1920 01/01/1920 24/04/1999	3791 3792 18207 841	TFAUNA TFAUNA BIRDATLAS2	Moderately certain Moderately certain	Historical (written) Historical (written)	Day sighting Day sighting	10	Watheroo Moora	Wathrrou NP	10000 10000 5000
Calyptorhynchus latirostris Calyptorhynchus latirostris Calyptorhynchus sp. "white-tailed black cockateo" Calyptorhynchus sp. "white-tailed black cockateo"	Carnaby's cockatoo Carnaby's cockatoo white-tailed black cockatoo white-tailed black cockatoo	BIRD BIRD BIRD BIRD	EN EN EN	01/01/1920 01/01/1920 24/04/1999 31/08/1981	3791 3792 18207 841 142334 266	TFAUNA TFAUNA BIRDATLAS2 BIRDATLAS1	Moderately certain Moderately certain Moderately Certain	Historical (written) Historical (written) Observational	Day sighting Day sighting Sighting	10	Watheroo Moora DANDARAGAN	DANDARAGAN	10000 10000 5000 18000
Calyptorhynchus latirostris Calyptorhynchus latirostris Calyptorhynchus sp. 'white-tailed black cockatoo'	Carnaby's cockatoo Carnaby's cockatoo white-tailed black cockatoo white-tailed black cockatoo white-tailed black cockatoo	BIRD BIRD BIRD BIRD BIRD	EN EN EN EN	01/01/1920 01/01/1920 24/04/1995 31/08/1981 31/05/1981	3791 3792 18207 841 142334 266 142332 266	TFAUNA TFAUNA BIRDATLAS2 BIRDATLAS1 BIRDATLAS1	Moderately certain Moderately certain Moderately Certain Moderately Certain	Historical (written) Historical (written) Observational Observational	Day sighting Day sighting Sighting Sighting	10	Watheroo Moora DANDARAGAN MOORA	DANDARAGAN MOORA	10000 10000 5000 18000 18000
Calyptorhynchus latirostris Calyptorhynchus latirostris Calyptorhynchus sp. "white-tailed black cockateo" Calyptorhynchus sp. "white-tailed black cockateo"	Carnaby's cockatoo Carnaby's cockatoo white-tailed black cockatoo white-tailed black cockatoo	BIRD BIRD BIRD BIRD	EN EN EN	01/01/1920 01/01/1920 24/04/1999 31/08/1981 31/05/1981 28/02/1981	3791 3792 18207 841 142334 266 142332 266 108838 266	TFAUNA TFAUNA BIRDATLAS2 BIRDATLAS1	Moderately certain Moderately certain Moderately Certain	Historical (written) Historical (written) Observational	Day sighting Day sighting Sighting	10	Watheroo Moora DANDARAGAN	DANDARAGAN	10000 10000 5000 18000 18000 18000
Calyptorhyechus latirostris Calyptorhyechus latirostris Calyptorhyechus latirostris Calyptorhyechus sp. white-tailed black cockatoo'	Carnaby's cockatoo Carnaby's cockatoo white tailed black cockatoo white tailed black cockatoo white tailed black cockatoo white tailed black cockatoo	BIRD BIRD BIRD BIRD BIRD BIRD BIRD BIRD	EN E	01/01/1920 01/01/1920 24/04/1999 31/08/1981 31/05/1981 28/02/1981 30/11/1980 16/09/1980	3791 3792 18207[841 142334]266 142332]266 108358]266 108754]266 116864]266	TFALINA TFALINA BIRDATLAS2 BIRDATLAS1 BIRDATLAS1 BIRDATLAS1 BIRDATLAS1 BIRDATLAS1 BIRDATLAS1 BIRDATLAS1	Moderately certain Moderately certain Moderately Certain Moderately Certain Moderately Certain	Historical (written) Historical (written) Observational Observational Observational	Day sighting Day sighting Sighting Sighting Sighting Sighting	10	Watherpo Moora DANDARASAN MOORA MOORA MOORA MOORA	DANDARAGAN MOORA MOORA MOORA DANDARAGAN	10000 10000 5000 18000 18000 18000 18000 18000
Calyptom/puchus lationouris Calyptom/puchus lationouris Calyptom/puchus sp. "white-latiled black coduated Calyptom/puchus sp. "white-latiled black coduated Calyptom/puchus sp. white-latiled black coduated	Carnaby's cockatoo Carnaby's cockatoo white-tailed black cockatoo white-tailed black cockatoo white tailed black cockatoo	BIRD BIRD BIRD BIRD BIRD BIRD BIRD BIRD	EN E	01/01/1920 01/01/1920 24/04/1999 31/08/1981 31/05/1981 28/02/1981 30/11/1980 16/09/1980 07/09/1980	3791 3792 18207 841 142334 266 142332 266 10838 266 108754 266 116864 266 108768 266	TFAUNA TFAUNA BIRDATLAS2 BIRDATLAS1	Moderately certain Moderately certain Moderately Certain Moderately Certain Moderately Certain Moderately Certain Moderately Certain Moderately Certain	Historical (written) Historical (written) Observational Observational Observational Observational Observational Observational Observational Observational	Day sighting Day sighting	10	Watheroo Moora DANDARAGAN MOORA MOORA DANDARAGAN GILLINGARRA	DANDARAGAN MOORA MOORA MOORA DANDARAGAN GILINGARRA	10000 10000 5000 18000 18000 18000 18000 18000
Calyptomychrus Latinostris Calyptomychrus sizurostris Calyptomychrus sp. Veritee Laiel black codasoof	Cannaby's cockatoo Cannaby's cockatoo white stalled black cockatoo	BIRD BIRD BIRD BIRD BIRD BIRD BIRD BIRD	EN E	01/01/1920 01/01/1920 24/04/1999 31/08/1981 31/05/1981 28/02/1981 30/11/1980 16/09/1980 07/09/1980 31/08/1980	3791 3792 18207 841 142334 266 142332 266 10838 266 108754 266 116864 266 108768 266 90844 266	TFAUNA TFAUNA BIRDATLAS2 BIRDATLAS1	Moderately certain Moderately Certain Moderately Certain Moderately Certain Moderately Certain Moderately Certain Moderately Certain Moderately Certain Moderately Certain Moderately Certain	Historical (written) Historical (written) Historical (written) Observational Observational Observational Observational Observational Observational Observational Observational	Day sighting Day sighting	10 10 1 1 1 1 1 1 1	Watheroo Moora DANDARAGAN MOORA MOORA MOORA DANDARAGAN GILINGARRA MOORA	DANDARAGAN MOORA MOORA MOORA DANDARAGAN GELINGARRA MOORA	10000 10000 5000 18000 18000 18000 18000 18000 18000
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Copport hepeta a storeous Copport hepeta a storeous Copport hepeta a storeous Copport hepeta a storeous control and control Copport hepeta by a shirt saided state contained Copport hep	Combiny Contation Committee Contation Committee Contation White Later Basic Condition	810 810 810 810 810 810 810 810 810 810	EN E	0.9/0.1/93/2 24/0.4/1999 3.1/06/1938 3.1/06/1938 3.1/06/1938 3.1/06/1938 3.0/11/1938 3.0/11/1938 2.3/06/1938 2.3/06/1938 2.3/06/1938 2.3/06/1938 2.3/06/1938 2.3/06/1938 2.3/06/1938 2.3/06/1938 2.3/06/1938 2.3/06/1938 2.3/06/1938 3.3/	3791 3792 3792 3792 3807 3807 3807 3807 3807 3807 3807 3807	TTAMANA TTAMANA TTAMANA TTAMANA TTAMANA SI SINGATASS	Modorarely certain Modorarely Ce	Nestoracia (entiteo) Nestoracia (entiteo) Observational	Dow spitched Down spitched Construction of Con	10 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Wateriero Monza Janachardon Monza Janachardon Monza	DANDARAGNA MODEA M	10000 10000
Copport herebut a storeous Copport herebut as the control Copport herebut as a whole saled less counted Copport herebut as a whole less less counted Copport herebut as a whole lead to counted Copport herebut as whole lead t	Corsulary (constance) Corrulary (constance) Ambier culter fibre on constance which culter fibre	810 810 810 810 810 810 810 810 810 810	DN D	0.9/0.1/302 0.9/0.1/302 24/0.4/1999 3.1/06/1938 3.1/06/1938 3.1/06/1938 3.1/06/1938 3.1/06/1938 3.1/06/1938 3.1/06/1938 2.1/06/1938 2.1/06/1938 2.1/06/1938 2.1/06/1938 2.1/06/1938 2.1/1/1939 2.1/1/1939 2.1/1/1939 2.1/1	3791 3792 3792 3807 3807 3807 3807 3807 3807 3807 3807	TTAMANA TTAMANA TTAMANA BROATIASS	Moderately certain Moderately Ce	National (emittee) Whitehold (emittee) Shewardsonal (Shewardsonal Shewardsonal Sh	Dor yeleney Dor yeleney Dor yeleney Senton S	10 10 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Watherso More DRAMARIAN MORE DRAMARIAN MORE M	DANDARAGNA MODIAA MODIA	10000 10000
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Cognitive has become: Cognitive has been been desirable considered. Cognitive has been been der bei der	Corsulary (constance) Corrulary (constance) Annie carler Siere (constance) Ante carler Siere (constance)	810 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EN E	0.V01/1932 2.4/0.V/1939 3.4/0.8/1931 3.4/	3791 3792 3792 3792 3792 3792 3792 3792 3792	TRAMAN TRAMAN TRAMAN S BROATIAS	Moderanja cartan	Pistorical (emitter) Secretarional (emitter) Secretarional (Secretarional Constructional Const	Dorrystera Dorry	10 10 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Watherso Monay DIADAMASIAN DIADAMASIAN MACAGA MACA	DANDARAGNE MODEA M	10000 10000
Copport heche is decreased. Copport heche is decreased. Copport heche is a break of these consorted. Copport heche is a break stated freet consorted. Copport heche is a break that for consorted. Copport heche is a break that that consorted. Copport heche is a break that t	Consulty consisted Consulty consisted white clark bits condition	810	DN D	0.1/0.1/93/2 0.1/0.1/93/2 2.4/0.4/1999 3.1/0.5/1983 3.	3791 3792 3792 3792 3792 3792 3792 3792 3792	TTAMANA TTAMANA TTAMANA SI SINGATASI	Moderating certain	Institution (emitted) Securitational (emitted)	Dor yelleng Dor yelleng Dor yelleng Santong Sa	10 10 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Numbers (Moses) Managhadari	DANDARAGNA MODRA MODRA MODRA MODRA MODRA MODRA MODRA MODRA MORRA MODRA M	10000 10000
Cognitive has become: Cognitive has been been desirable considered. Cognitive has been been der bei der	Corsulary (constance) Corrulary (constance) Annie carler Siere (constance) Ante carler Siere (constance)	810 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EN E	0.V01/1932 2.4/0.V/1939 3.4/0.8/1931 3.4/	3791 3792 3792 3792 3792 3792 3792 3792 3792	TRAMAN TRAMAN TRAMAN S BROATIAS	Moderanja cartan	Pistorical (emitter) Secretarional (emitter) Secretarional (Secretarional Constructional Const	Dorrystera Dorry	10 10 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Watherso Monay DIADAMASIAN DIADAMASIAN MACAGA MACA	DANDARAGNE MODEA M	10000 10000
Cognitive has become: Cognitive has been been desirable considered. Cognitive has been been des des considered. Cognitive has the been been been desirable considered. Cognitive has the seal been been been desirable considered. Cognitive has the seal been been been desirable considered. Cognitive has the seal been been been been desirable considered. Cognitive has the seal been been been been desirable considered. Cognitive has the seal been been been been desirable considered. Cognitive has the seal been been been been been been been bee	Corsulary (constance) Corsulary (constance) white careful below constance white careful below	100 100	DN D	0.1/0.1/93/2 0.1/0.1/93/2 2.4/0.4/1999 3.1/0.5/1983 3.1/0.5/1983 3.1/0.5/1983 3.1/0.5/1983 3.1/0.8/1983 3.	3791 3792 4 3792	TRAMAN TRAMAN TRAMAN S BROATASS	Moderating certain	Institution (emitted) Securitational (emitted)	Dor yelleng Dor yelleng Dor yelleng Santong Sa	10 10 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Numbers (Moses) Managhadari	DANDARAGNE MODRA M	10000 10000
Copport herebut storeous Copport herebut storeous Copport herebut storeous Copport herebut storeous Copport herebut so what said that consored Copport her	Combiny Contained Committee Contained Annual Contained An	100 100	DN DN DN DN DN DN DN DN	0.1/0.1/93/2 24/0.4/93/9 3.1/05/1933 3.1/05/1934 3.1/	3791 - 3792 - 37	TTAURANA TTAURANA TTAURANA TTAURANA TTAURANA TTAURANA SI SENCATALSS SINCATALSS SINCATALS	Moderanty cartain	Nestoracia (emiteo) Nestoracia (emiteo) Observational	Dor yelreng Dor yelreng Septeng Septen	10 10 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NUMBEROD NOMES DIAMONASION DIAMONASION NOMES N	DANDARAGNA MODEA M	10000 10000
Copportmenta is streem. Copportmenta is streem. Copportmenta is streem. Copportmenta is such in the state that consider. Copportmenta is a white saled that consider.	Corsulary (constance) Corrulary (constance) Corrulary (constance) White called finds constance white tailed finds constance white ta	100 100	DN DN DN DN DN DN DN DN	0.1/0.1/1932 2.4/0.1/1939 2.4/0.1/1939 3.1/0.0/1938 3.	3791 3792 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TTAMANA TTAMANA TTAMANA BROATLASS BR	Moderating certain	Fistorical (emitter) Statistical (emitter)	Dorrystens Dorrystens Spense	10 10 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Watherso DORAMASION	DANDARAGNE MODRA M	10000 10000 10000 10000 10000 110000
Cognitive has become: Cognitive has been been desirable considered. Cognitive has been been der bei der bestelle der considered. Cognitive has been der bestelle bestelle des considered. Cognitive has der bestelle des c	Combiny Contained Committee Contained Annual Contained An	100 100	DN DN DN DN DN DN DN DN	0.1/0.1/93/2 24/0.4/93/9 3.1/05/1933 3.1/05/1934 3.1/	3791 - 10270141 - 1027	TTAURANA TTAURANA TTAURANA TTAURANA TTAURANA TTAURANA SI SENCATALSS SINCATALSS SINCATALS	Moderanty cartain	Nestoracia (emiteo) Nestoracia (emiteo) Observational	Dor yelreng Dor yelreng Septeng Septen	10 10 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NUMBEROD NOMES DIAMONASION DIAMONASION NOMES N	DANDARAGNA MODEA M	10000 10000
Copportmenta is streem. Copportmenta is streem. Copportmenta is streem. Copportmenta is such in the state that consider. Copportmenta is a white saled that consider.	Corsulary (countries) Corsulary (countries) white carlier before countries white carlier be	100 100	DN DN DN DN DN DN DN DN	0.1/0.1/1922 2.4/0.1/1925 2.4/0.1/1925 2.4/0.1/1925 3.1/0.0/1938 3.	3791 3792 3792 3797 3797 3797 3797 3797 3797	TRAMAN TRAMAN TRAMAN SI BROATIAS	Moderating cartain	Pistorical (emitted) Secretarional Contractional Contract	Dar yelteria Dar yelteria Dar yelteria Satonia	100 100 111 111 111 111 111 111 111 111	Watherso Moss DADAMASIA MOSS DADAMASIA MOSS M	DANDARAGNA MODEA M	10000 10000
Coggate-heur is storeous. Coggate-heur is storeous. Coggate-heur is storeous. Coggate-heur is a value state date consored. Coggate-heur is a value state date on consored. Coggate-heur is a value state d	Corsulary (constance) Corsulary (constance) white careful folia constance white folia folia constance white folia folia constance white folia folia constance white	100 100	N	DUDLETS (1997)	3791 3792 3793 3793 3793 3793 3793 3793 3793	TTAMANA TTAMANA TTAMANA SI S	Moderating cartain	Pistorical (emitter) Secretarional Contractional Contract	Dar yelteria Dar yelteria Dar yelteria Senone Senon	100 100 111 111 111 111 111 111 111 111	Wateriero Monay Monay	DANDARAGNE MODRA M	10000 10000
Conjumentary to laterate in Conjumentary to the Conjumentary to th	Combing Contained Committee Contained Combing Contained Anne Conta	100 100	N	DUDLETS (1997)	3791 3792 3793 3793 3793 3793 3793 3793 3793	TTAMANA TTAMANA TTAMANA BROOTIASS	Moderating certain	Nestoracia (emitero) Nestoracia (emitero) Observational	Dorrystenia Dorrystenia Dorrystenia Sannia S	100 100 111 111 111 111 111 111 111 111	Watherso Moora Demandaria Moora Moo	DANDARAGNA MODEA M	10000 10000

NAME_SQ				Date 31/05/1987									ACCURACY_M
Dasyurus geoffroii		MAMMAL	VU			TFAUNA	Certain	Opportunistic sighting	Night sighting		Yathroo		1000
Egernia stokesii badia	western spiny-tailed skink	REPTILE	VU	01/01/1954		TFAUNA	Certain	Survey	Caught or trapped		Miling		50000
Egernia stokesii badia	western spiny-tailed skink	REPTILE	VU	01/01/1951		TFAUNA	Certain	Survey	Caught or trapped		Bindi Bindi		50000
Egernia stokesii badia	western spiny-tailed skink	REPTILE	VU	01/01/1940		TFAUNA	Certain	Historical (written)	Caught or trapped	1	Miling		50000
Egernia stokesii badia	western spiny-tailed skink	REPTILE	VU		REPT:R10416	WAM_REPTILES	WAM Vouchered	Collection	Specimen	1	BINDI BINDI	BINDI BINDI	50000
Egernia stokesii badia	western spiny-tailed skink	REPTILE	VU		REPT:R11102	WAM_REPTILES	WAM Vouchered	Collection	Specimen		MILING	MILING	50000
Egernia stokesii badia	western spiny-tailed skink	REPTILE	VU		REPT:R7932	WAM_REPTILES	WAM Vouchered	Collection	Specimen		MILING	MILING	50000
Egernia stokesii badia	western spiny-tailed skink	REPTILE	VU		REPT:R8634	WAM_REPTILES	WAM Vouchered	Collection	Specimen	1	MILING	MILING	10000
												Great Northern Highway, Batty Bog Road to the town of	
Falco peregrinus	peregrine falcon	BIRD	OS	07/05/2013		FAUNASURVEY	Certain	Survey	Unknown	1	WADDINGTON	Walebing	10000
Falco peregrinus	peregrine falcon	BIRD	05	05/10/2012		FAUNASURVEY	Certain	Survey	Unknown		YERECOIN	Gunnel, GUNVF07	100
Falco peregrinus	peregrine falcon	BIRD	OS	02/10/2012		FAUNASURVEY	Certain	Survey	Unknown		GLENTROMIE	Gunnel, Opportunistic	100
Falco peregrinus	peregrine falcon	BIRD	OS		460482 237	BIRDATLAS2	Moderately Certain	Observational	Sighting		WALEBING	Humphrey's Farm	500
Falco peregrinus	peregrine falcon	BIRD	05	25/09/2002		TFAUNA	Certain	Opportunistic sighting	Day sighting		Moora		1000
Falco peregrinus	peregrine falcon	BIRD	05	22/10/2000		BIRDATLAS2	Moderately Certain	Observational	Sighting		MOORA	Cairn Hill	100
Falco peregrinus	peregrine falcon	BIRD	05	01/05/1975		TFAUNA	Moderately certain	Opportunistic sighting	Day sighting		Piawaning		10000
Hydromys chrysogaster	water-rat, rakali	MAMMAL	P4	16/07/1972	10561	TFAUNA	Certain	Survey	Caught or trapped	1	Regans Ford		1000
Hydromys chrysogaster	water-rat, rakali	MAMMAL MAMMAI	P4	16/07/1972	MAMM:M10328	WAM_MAMMALS TEALINA	WAM Vouchered	Collection	Specimen	1	RED GULLY	MOORE RIVER NAT.PARK	50
Hydromys chrysogaster	water-rat, rakali	MAMMAL	P4	01/01/1931	10609	TFAUNA	Certain	Historical (written)	Caught or trapped	1	Moora		10000
		MAMMAL	P4			WAM MAMMALS		Collection			MOORA		
Hydromys chrysogaster	water-rat, rakali				MAMM:M1420		WAM Vouchered		Specimen	1		MOORE RIVER NAT.PARK	50000
Idiosoma dandaragan	shield-backed trapdoor spider	INVERTEBRATE	EN	08/10/2012	528014	FAUNASURVEY	Certain	Survey	Unknown		GLENTROME	Gunnel, GUNSRE07	100
Idiosoma dandaragan	shield-backed trapdoor spider	INVERTEBRATE	EN	08/10/2012		FAUNASURVEY	Certain	Survey	Unknown		GLENTROME	Gunnel, GUNSRE07	100
Idiosoma dandaragan	shield-backed trapdoor spider shield-backed trapdoor spider	INVERTEBRATE INVERTEBRATE	EN EN	08/10/2012		FAUNASURVEY FAUNASURVEY	Certain Certain	Survey	Unknown	1	GLENTROMIE	Gunnel, GUNVF02 Gunnel, GUNSRE03	100 100
Idiosoma dandaragan								Survey		4			
Idiosoma dandaragan	shield-backed trapdoor spider	INVERTEBRATE	EN	13/09/2012	5.28007	FAUNASURVEY	Certain	Survey	Unknown	1	GLENTROME	Gunnel, GUNSRE03	100
Idiosoma dandaragan	shield-backed trapdoor spider	INVERTEBRATE	EN	13/09/2012	ARACH:127016	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	GLENTROMIE	GLENTROMIE	50
Idiosoma dandaragan	shield-backed trapdoor spider	INVERTEBRATE	EN		ARACH:127017	WAM ARACHNIDS	WAM Vouchered	Collection	Specimen	1	GLENTROMIE	GLENTROMIE	50
Idiosoma dandaragan	shield-backed trapdoor spider	INVERTEBRATE	EN	11/07/1955	9013	TFAUNA	Certain	Survey	Caught or trapped	1	Watheroo		1000
Idiosoma dandaragan	shield-backed trapdoor spider	INVERTEBRATE	EN	11/07/1955	9014	TFAUNA	Certain	Survey	Caught or trapped	1	Watherpo		1000
Idiosoma dandaragan	shield-backed trapdoor spider	INVERTERRATE	EN	11/07/1955		TEALINA	Certain	Survey	Caught or trapped		Watheroo		1000
Idiosoma dandaragan	shield-backed trapdoor spider	INVERTEBRATE	EN	25/05/1954		TFAUNA	Certain	Survey	Caught or trapped		Koolan		1000
Idiosoma dandaragan	shield-backed trapdoor spider	INVERTERRATE	EN	25/05/1954	9077	TEALINA	Certain	Survey	Caught or trapped	1	Koolan		1000
Idiosoma dandaragan	shield-backed trapdoor spider	INVERTEBRATE	EN	25/05/1954		TFAUNA	Certain	Survey	Caught or trapped		Koolan		1000
Idiosoma dandaragan	shield-backed trapdoor spider	INVERTERRATE	EN	25/05/1954	9079	TEALINA	Certain	Survey	Caught or trapped	1	Koojan		1000
Idiosoma dandaragan	shield-backed trapdoor spider	INVERTEBRATE	EN	25/05/1954		TFAUNA	Certain	Survey	Caught or trapped		Baberton/Kooian		1000
Idiosoma dandaragan	shield-backed trapdoor spider	INVERTEBRATE	EN	25/05/1954	9081	TFAUNA	Certain	Survey	Caught or trapped	1	Baberton		1000
Idiosoma mcclementsorum	and the second second second	INVERTEBRATE	P2	18/06/2018	61110	FAUNASURVEY WLS	4		Burrow excavation	1	Yarawindah	lm011	5
Idiosoma mcclementsorum	shield-backed trapdoor spider	INVERTEBRATE	EN	17/09/2008		TFAUNA	Certain	Survey	Caught or trapped	1	Yarawindah		1000
	Swan Coastal Plain shield-backed trapdoor			,,					and a supplied				
Idiosoma mcclementsorum	spider	INVERTEBRATE	P3	17/09/2008	16616	TFAUNA	Certain		Secondary sign	20	Yarawindah		1000
Idiosoma nigrum	shield-backed transpoor spider	INVERTEBRATE	EN	24/04/1955		TFAUNA	Certain	Survey	Caught or trapped	1	Walebing		10000
Idiosoma nigrum	shield-backed trapdoor spider	INVERTEBRATE	EN	08/04/1955	8996	TFAUNA	Certain	Survey	Caught or trapped		Bindi Bindi		1000
Idiosoma nigrum	shield-backed trapdoor spider	INVERTEBRATE	EN	08/04/1955	8997	TFAUNA	Certain	Survey	Caught or trapped	1	Bindi Bindi		1000
Idiosoma nigrum	shield-backed trapdoor spider	INVERTEBRATE	EN	28/05/1954	9082	TFAUNA	Certain	Survey	Caught or trapped	1	Bindi Bindi		1000
Idiosoma nigrum	shield-backed trapdoor spider	INVERTEBRATE	EN	06/05/1953	9069	TFAUNA	Certain	Survey	Caught or trapped	1	Walebing		10000
Idiosoma nigrum	shield-backed trapdoor spider	INVERTEBRATE	EN	06/05/1953		TFAUNA	Certain	Survey	Caught or trapped	1	Walebing		10000
Idiosoma nigrum	shield-backed trapdoor spider	INVERTEBRATE	EN	06/05/1953	9071	TFAUNA	Certain	Survey	Caught or trapped	1	Walebing		10000
Isoodon fusciventer	quenda, southwestern brown bandicoot	MAMMAL	P4	13/09/2014		TFAUNA	Moderately certain	Community survey	Day sighting	6	Wannamal		1000
Leipoa ocellata	malleefowl	BIRD	VU	07/05/2010		TFAUNA	Certain	Opportunistic sighting	Day sighting		Watheroo National Park		1000
Leipoa ocellata	malleefowl	BIRD	VU	15/12/2005	10451	TFAUNA	Certain	Opportunistic sighting	Dead	1	Eganu		500
Macrotis lagotis	bilby, dalgyte, ninu	MAMMAL	VU	01/01/1928	24511	TFAUNA	Moderately certain	Historical (written)	Caught or trapped	1	Watheroo		10000
Macrotis lagotis	bilby, dalgyte, ninu	MAMMAL	VU	01/01/1904		TFAUNA	Moderately certain	Historical (written)	Caught or trapped	1	Watheroo		10000
Notamacropus irma	western brush wallaby	MAMMAL	P4	18/09/1982	10640	TFAUNA	Certain	Opportunistic sighting	Sighting	1	Regans Ford/Red Gully		500
Notamacropus irma	western brush wallaby	MAMMAL	P4		MAMM:M1746	WAM_MAMMALS	WAM Vouchered	Collection	Specimen	1	MOGUMBER	MOGUMBER	10000
Notamacropus irma	western brush wallaby	MAMMAL	P4		MAMM:M1747	WAM MAMMALS	WAM Vouchered	Collection	Specimen		MOGUMBER	MOGUMBER	10000
Notamacropus irma Oxyura australis	blue-billed duck	BIRD	P4	15/03/2010	781351 216	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	DANDARAGAN	Aggies Lake	10000
Oxyura australis	blue-billed duck	BIRD	P4	15/11/2000	50551091216	BIRDATLAS2	Moderately Certain	Observational	Sighting		WANNAMAL	wannamal north	100
Oxyura australis	blue-billed duck	BIRD	P4		50650971216	BIRDATLAS2	Moderately Certain	Observational	Sighting		MOGUMBER	Lake Wannamal	100
Oxyura australis	Blue-billed Duck	BIRD	P4		915381 216	BIRDATA	, and a second					Farm lake, via Dandaragan	5000
Oxyura australis	blue-billed duck	BIRD	P4	03/09/2001	187094 216	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	DANDARAGAN	Dandaragan Road, Dandaragan	100
Oxyura australis	blue-billed duck	BIRD	P4		142847 216	BIRDATLAS1	Moderately Certain	Observational	Sighting	1	MOGUMBER	MOGUMBER	18000
Oxyura australis	blue-billed duck	BIRD	P4		1093531216	BIRDATLAS1	Moderately Certain	Observational	Sighting		MOGUMBER	MOGUMBER	18000
Oxyura australis	blue-billed duck	BIRD	P4	23/07/1979		BIRDATLAS1	Moderately Certain	Observational	Sighting		MOGUMBER	MOGUMBER	18000
Oxyura australis	blue-billed duck	BIRD	P4		109345 216	BIRDATLAS1	Moderately Certain	Observational	Sighting		MOGUMBER	MOGUMBER	18000
Oxyura australis	blue-billed duck	BIRD	P4	02/11/1977		BIRDATLAS1	Moderately Certain	Observational	Sighting	1	YATHROO	YATHROO	18000
Oxyura australis	blue-billed duck	BIRD	P4	10/10/1917		WAM_BIRDS	WAM Vouchered	Collection	Specimen	1	MOORA	Dalaroo Swamp; Moora	0
Parantechinus apicalis	dibbler	MAMMAL	EN		5728	TFAUNA	Certain	Historical (written)	Caught or trapped	1	Moore River		50000
	south-western brush-tailed phascogale,												
Phascogale tapoatafa wambenger	wambenger	MAMMAL	CD		MAMM:M26987	WAM_MAMMALS	WAM Vouchered	Collection	Specimen	1	WANNAMAL	WANNAMAL	10000
Platycercus icterotis xanthogenys	western rosella (inland)	BIRD	P4	01/11/1979		TFAUNA	Certain	Opportunistic sighting	Day sighting		Dandaragan		50000
Platycercus icterotis xanthogenys	western rosella (inland)	BIRD	P4	01/11/1979		TFAUNA	Certain	Opportunistic sighting	Day sighting		Moora		50000
Platycercus icterotis xanthogenys	western rosella (inland)	BIRD	P4	01/11/1977		TFAUNA	Certain	Opportunistic sighting	Day sighting		Dandaragan		10000
Plegadis falcinellus	glossy ibis	BIRD	IA	28/08/1978		BIRDATLAS1	Moderately Certain	Observational	Sighting		BERKSHIRE VALLEY	BERKSHIRE VALLEY	18000
Pseudemydura umbrina	western swamp tortoise	REPTILE	CR	11/08/2003	8868	TFAUNA	Certain	Translocation	Released		Mogumber		1000
	western swamp tortoise	REPTILE	CR	21/07/2002		TFAUNA	Certain	Translocation	Released	18	Mogumber		1000
Pseudemydura umbrina			CR	01/08/2001		TFAUNA	Certain	Translocation	Released		Mogumber		1000
Pseudemydura umbrina Pseudemydura umbrina	western swamp tortoise	REPTILE											
Pseudemydura umbrina Pseudemydura umbrina Pseudemydura umbrina	western swamp tortoise western swamp tortoise	REPTILE	CR	01/01/2001		TFAUNA	Certain	Targeted survey	Dead		Mogumber		1000
Pseudemydura umbrina Pseudemydura umbrina Pseudemydura umbrina Pseudemydura umbrina	western swamp tortoise western swamp tortoise western swamp tortoise	REPTILE REPTILE	CR	01/08/2000	8865	TFAUNA	Certain	Translocation	Released	6	Mogumber		1000
Psaudemydura umbrina Psaudemydura umbrina Psaudemydura umbrina Psaudemydura umbrina Rostratula australis	western swamp tortoise western swamp tortoise western swamp tortoise Australian painted snipe	REPTILE REPTILE BIRD	CR EN	01/08/2000 24/10/1923	8865 AVIF:10226	TFAUNA WAM_BIRDS	Certain WAM Vouchered	Translocation Collection	Released Specimen	6 1	Mogumber MOORA	Dalaroo Lakes; Moora	1000
Pseudomydura umbrina Pseudomydura umbrina Pseudomydura umbrina Pseudomydura umbrina Pseudomydura umbrina Rosstratula australis Thironnis ruthinollis	western swamp tortoise western swamp tortoise western swamp tortoise Australian painted snipe hooded plover, hood ed dotterel	REPTILE REPTILE BIRD BIRD	CR EN P4	01/08/2000 24/10/1923 01/01/1961	8865 AVIF:10226 AVIF:8672	TFAUNA WAM_BIRDS WAM_BIRDS	Certain WAM Vouchered WAM Vouchered	Translocation Collection Collection	Released Specimen Specimen	6 1	Mogumber MOORA MOORA	Moora	1000 0 10000
Peaudomydura umbrina Peaudomydura umbrina Peaudomydura umbrina Peaudomydura umbrina Peaudomydura umbrina Rostratula umbrina Rostratula umbrina Tibrinnis rubricollis Tibrinnis rubricollis Tibrinnis rubricollis	western swamp tortoise western swamp tortoise western swamp tortoise Australian painted snipe hooded plover, hood ed dotterel hooded plover, hood ed dotterel	REPTILE REPTILE BIRD BIRD BIRD	CR EN P4 P4	01/08/2000 24/10/1923	8865 AVIF:10226 AVIF:8672 AVIF:8671	TFAUNA WAM_BIRDS WAM_BIRDS WAM_BIRDS	Certain WAM Vouchered WAM Vouchered WAM Vouchered	Translocation Collection Collection Collection	Released Specimen Specimen Specimen	6 1 1	Mogramber MOGRA MOGRA MOGRA	Moora Moora	1000 0 10000 10000
Pseudomydura umbrina Pseudomydura umbrina Pseudomydura umbrina Pseudomydura umbrina Pseudomydura umbrina Rosstratula australis Thironnis ruthinollis	western swamp tortoise western swamp tortoise western swamp tortoise Australian painted snipe hooded plover, hood ed dotterel	REPTILE REPTILE BIRD BIRD	CR EN P4	01/08/2000 24/10/1923 01/01/1961	8865 AVIF:10226 AVIF:8672	TFAUNA WAM_BIRDS WAM_BIRDS	Certain WAM Vouchered WAM Vouchered	Translocation Collection Collection	Released Specimen Specimen	6 1 1 1	Mogumber MOORA MOORA	Moora	1000 0 10000

Throscodectes xederoides	Mogumber bush cricket, Northern Throsco	INVERTEBRATE	P3	01/10/1999	6656	TFAUNA	Certain	Survey	Caught or trapped		Mogumber		1000
Throscodectes xederoides	Mogumber bush cricket, Northern Throsco	INVERTEBRATE	P3	01/01/1999	6590	TFAUNA	Certain	Opportunistic sighting	Sighting		Sevenmile Well Nature Reserve		1000
Throscodectes xederoides	Mogumber bush cricket, Northern Throsco	INVERTEBRATE	P3	24/01/1975	6322	TFAUNA	Certain	Survey	Caught or trapped	1	Mogumber		10000
Tringa glareola	wood sandpiper	BIRD	IA	10/02/1978	22147 154	BIRDATLAS1	Moderately Certain	Observational	Sighting	1	YATHROO	YATHROO	18000
Tringa nebularia	common greenshank, greenshank	BIRD	IA	03/03/2003	287161 158	BIRDATLAS2	Moderately Certain	Observational	Sighting	1	REGANS FORD	Wetland, Brand Highway	500
Tringa nebularia	common greenshank, greenshank	BIRD	IA	02/11/1977	22145 158	BIRDATLAS1	Moderately Certain	Observational	Sighting	1	YATHROO	YATHROO	18000
							Very Certain (photo,						
Westralunio carteri	Carter's freshwater mussel	INVERTEBRATE	VU	01/12/1965	85291	TFAUNA	specimen, expert)	Survey	Caught or trapped	1	MINDARRA		10000



Appendix B Flora Likelihood Assessment

Appendix B: Flora Likelihood of Occurrence

Closest record to Survey Area based on DBCA 2019. High = Suitable habitat present and records less than 10 km from the Survey Area, Medium = Suitable habitat present and records between 10 km and 20 km from the Survey Area, and Low = No suitable habitat present and/or records greater than 50 km from the Survey Area. CR = Listed as Critically Endangered under the EPBC Act, EN = Listed as Endangered under the EBPC Act, VU = Listed as Vulnerable under the EPBC Act.

and/or records greater than 50 km from the Survey Area	. CR = Listed	as Critically	Endangered und	er the EPE Source	C Act, EN =	Listed as Endange Distance to	ered under the EBPC		Habitat occurs	ow — 140 suitable habitat present
Species	DBCA	EPBC	NatureMap	EPBC	DBCA	Nearest Record	Flowering Period	Prefered Habitat	within the Survey	Likelihood of Occurrence
						(km)		I compared a constant I am end a side of	Area	
Acacia aristulata	T	EN	Х	Х	Х	10.3	Sep to Dec	Loamy or clayey sand over chert. Low rocky ridges and hills, outcrops.	Yes	Medium
Acacia cochlocarpa subsp. cochlocarpa Acacia cochlocarpa subsp. velutinosa	T	EN CR	Х	X	X	3	Sep to Nov Jul to Nov	Clayey, sandy, often gravelly soils. Sandy clay or laterite	Yes Yes	High Medium
Banksia fuscobractea	Ť	CR		X		÷	Jul to Oct	Lateritic gravel, grey sand over laterite	No No	Low
Banksia serratuloides subsp. serratuloides Chamelaucium sp. Gingin (N.G.Marchant 6)	T	VU EN		X			Jul to Sep Sep to Nov	Loam or clay loam over laterite, sandy gravel Gravel and sand over laterite	Yes No	Medium Low
Chorizema humile	T	EN		Х			Jul to Sep	Sandy clay or loam	Yes	Medium
Conospermum densiflorum subsp. unicephalatum	Т	EN	х	Х	х	17	Sep to Nov	Clay soils. Low-lying areas. Associated species: Dryandra spp., Allocasuarina, Melaleuca sp., weeds, grasses, Ptilotus sp.	Yes	Medium
Darwinia acerosa Dasymalla axillaris	T	EN CR	Х	X	Х	16.1	Sep to Nov Jul to Dec	Sand, loam, often moist soils. Granite outcrops, road verges. Sand, Loam, gravel, most often on plain	Yes Yes	Medium Medium
Daviesia dielsii	Т	EN	х	Х	х	11.7	Jul	Sandy, often gravelly soils, rocky brown, sandy loam. Associated species: Banksia sp., Acacia sp., Allocasuarina sp., Melaleuca sp.	Yes	Medium
Eleocharis keigheryi	Т	VU	х	х	х	15.1	Aug to Nov	Clay, sandy loam. Emergent in freshwater: creeks, claypans.	No	Low
Eremophila glabra subsp. chlorella	T	VU	х		Х	8.2	Jul to Nov	Sandy clay. Winter-wet depressions. Under Eucalyptus/Acacia low woodland.	No	Low
Eremophila scaberula	Т	EN	х	Х	×	1.7	Aug to Oct	Clay, sandy clay or loam. Winter-wet plains, inundated areas. Associated with Eucalypt woodlands.	No	Low
Eucalyptus absita Eucalyptus dolorosa	T	EN EN	X	X	X	11.1	Apr to Jul Feb to Mar	White lateric sand. Paddocks Laterite. Hillsides	No No	Low Low
Eucalyptus impensa	Ť	EN		X			Jun to Jul	Yellow sand. Lateritic hills.	No	Low
Eucalyptus leprophicia Eucalyptus recta	T	EN EN		X			Aug to Oct Jan	White or grey sand over laterite. Valley slopes Sandy laterite	No No	Low Low
Eucalyptus x balanites	T	EN		Х			Jan to Feb	Sandy soils with lateritic gravel	No	Low
Gastrolobium appressum	Т	VU		Х			Aug to Dec	White/yellow sand with quartz gravel. Sandplains, low rises	No	Low
Gastrolobium hamulosum	Т	EN		Х			Aug to Oct	Sandy, often gravelly soils or clay. Flats, slopes, ridges	Yes	Medium
Goodenia arthrotricha Grevillea christineae	T	EN EN	Х	X	X	15.8	Oct to Nov Aug to Sep	Gravel. Granite rocks, slopes Clay loam, sandy clay, often moist	No Yes	Low Medium
Grevillea pythara	Т	EN		х		-	May to Oct (possibly all year)	Sand or sandy loam with gravel	Yes	Medium
Haloragis platycarpa	Т	CR	х	Х	Х	15	Sep to Dec	Loamy clay, sand or granite, granite outcrops, claypans, margins of wetlands.	Yes	Medium
Hemiandra gardneri	Ţ	EN	Х	X	X	4	Aug to Oct	Grey or Yellow sand, clayey sands. Sandplains	Yes	High
Spirogardnera rubescens Synaphea quartzitica	T	EN EN	Х	X	X	13	Aug to Dec Jul to Aug	Laterite, sand over laterite, loam Rocky quartzite hill.	No No	Low Low
Thelymitra dedmaniarum	Т	EN		Х			Nov to Dec or Jan		No	Low
Thelymitra stellata	T	EN		Х			Oct to Nov	Sand, gravel, lateritic loam	No	Low
Verticordia staminosa subsp. Staminosa	T P1	EN	X	Х	X	14	Jul to Oct	Soil pockets. Granite outcrops Rocky or lateritic loam.	No No	Low
Acacia congesta subsp. cliftoniana. Caladenia dundasiae	P1		x		×	13.4	Aug to Sep Jul to Aug	Appears to be confined to Watheroo area. Clayey loam. Well-drained soils under scattered wandoo.	Yes	Medium
Calytrix ecalycata subsp. pubescens	P1		Х		X	7.5	Jul to Oct	Brown loamy clay. Upper slopes. Forest with E.	Yes	High
Micromyrtus rogeri	P1		×		Х	18.6	Jul to Oct	wandoo. Yellow-brown sandy soils, gravel, laterite. Breakaways	No	Low
Stylidium carnosum subsp. Narrow leaves	P1		Х		X	17.1	Sep to Nov	White/grey sand or sandy loam with lateritic gravel. In	No	Low
*	P1		×		X		Oct	association with Banksia spp. Gritty soils over granite. Outcrops. Slope. Brown		Low
Verticordia dasystylis subsp. oestopoia	PI				Α	15.9	Oct	clayey loam and sheet granite Grey-white sand, rich brown sandy loam, sandy clay,	No	LOW
Anigozanthos humilis subsp. Badgingarra	P2	-	Х		Х	3	*	alluvial soils. Low plains, river-banks, winter-wet swamps White sand over lateritic gravel, clay loam, sandy	No	Low
Boronia ericifolia	P2	-	X		X	14.9	Sep to Dec	loam, alluvial flats. Winter-wet swamp, riverbanks Silty loam or sand. Steep slopes. In association with	No	Low
Bossiaea moylei	P2	-	Х		X	13.8	Sep to Nov	Allocasuarina huegeliana Gravelly, white sand over laterite, sandy loam. Gully	Yes	Medium
Eremaea sp. Caim Hill	P2	-	×		Х	13.3	Sep to Dec	floors between ridges. Associated vegetation: Banksia spp.	No	Low
Gompholobium roseum Hemigenia curvifolia	P2 P2		X X		X	2.9	Oct Sep to Oct	Sandy clay with laterite gravel and limestone Sandy soils. Associated with Low open	No No	Low
Stylidium sp. Moora	P2		×		×	7.5	Sep to Oct	woodland/heath, E. todtiana, M. scabra. Gravelly clay loam over granite, sandy clay, sandy loam. Hilltop and hillside, open woodland, low-lying	Yes	High
	P2		X		X	19.9	Jul to Sep	areas	Yes	Medium
Synaphea rangiferops	P2		×		X	16.2	Sep to Nov	Sandy loam, gravel Yellow to grey sand, gravelly clay quartz, laterite,	Yes No	Low
Tricoryne sp. Wongen Hills		-						Ilmestone. Midslopes and uplands. Associated with Allocasuarina huegeliana low woodland. Grey or yellow sand, lateritic gravel. Sandplains,		
Acacia cummingiana Acacia nodiflora	P3 P3		X		X	7.2	May to Jun or Aug Aug to Sep	lateritic breakaways Rocky loam or clay. Rocky ranges, granite hills	No No	Low
Austrostipa sp. Cairn Hill	P3		×		Х	14.3	Oct	Clay, yellow sands, granite. Midslope, valley floor. Litter under Alfocasuarina campestris.	No	Low
Babingtonia cherticola	P3	-	×		Х	14	Oct to Feb	Sand, sand loam, sandy gravel over laterite. Found in woodland of Allocasuarina huegeliana .	Yes	Medium
Babingtonia urbana Banksia dallanneyi subsp. pollosta	P3 P3		X		X	18.7 4.9	Dec to Mar Aug to Sep	Sandy, clay loam. Winter wet Grey/yellow sand. Flats, lateritic rises	No No	Low Low
Beaufortia bicolor Beaufortia eriocephala	P3 P3	-	X		Х	17.8	Nov to Dec	White sand over laterite. Sandplains Lateritic sand soils. Slopes	No No	Low
Blackallia nudiflora	P3		х		Х	14.8	Aug to Sep	Clay or sandy clay with granite. On hills or	Yes	Medium
Calytrix ecalycata subsp. brevis	P3		Х		X	17	Aug to Sep	breakaways, plains Dry yellow sand. Sandplains, low-rises	No	Low
Daviesia debilior subsp. sinuans	P3		X				· ·	Gravelly laterirtic clay Sand, lateritic sandy soils. Hills, rocky ironstone	No	Low
Eucalyptus macrocarpa x pyriformis	P3	-	Х			-	Apr or Aug to Oct	ridges, sandplains Heavy clay or loam soils, granite, sandstone, quartzite.	No	Low
Gastrolobium rotundifolium Guichenotia tuberculata	P3 P3		X		×	7.9 18.9	Aug to Sep Aug to Oct	Low rises, breakaways. In association with open woodland owith E. wandoo. Sand clay over laterite, sand	Yes Yes	High Medium
Isopogon drummandii	P3		×		X	17.1	Feb to Jun	White/grey sand, laterite gravel. Hilltop, hillslope, sandplains	No	Low
Isotropis cuneifolia subsp. glabra	P3		Х		Х	3	Sep	Sand, clay loam. Winter-wet flats	No	Low
Leucopogon allittii Leucopogon tamminensis var. tamminensis	P3 P3		X X		X	3	Mar to Apr Jun or Oct to Dec	Sand over gravel. White-light brown sand, white-yellow clayey sand,	No Yes	Low High
Meionectes tenuifolia	P3	-	X		×	14.4	Oct to Dec	gravel. Sandplains, gentle slopes. Grey sand, granite flats. Swamp edge, ephemeral wetland. Associated vegetation dominated by Banksia	No	Low
Melaleuca sclerophylla	P3		X		X	8.8	Jun to Sep	spp. Gravelly sand, clayey sand. Granite outcrops, rises.	Yes	High
								Sandplains. Yellow/grey sand and gravel, laterite, quartzite soils.		-
Petrophile bitemata	P3	-	×		X	4	Aug to Oct	Lateritic ridges, plains Loamy clays, moist soil pockets. Wet flats, Low	No V	Low
Stylidium periscellanthum	P3	-	X		Х	12.9	Sep to Oct	granitic hill.	Yes	Medium Medium
Stylidium sacculatum Verticordia huegelii var. tridens	P3 P3		X		X	11.2	Oct to Nov Sep to Nov	Clayey sand or sand. Lower slopes and flats Sandy or gravelly loam	Yes Yes	Medium
Verticordia insignis subsp. eomagis	P3	-	X		X	3	Aug to Nov	Sandy soils over laterite. Sandplains, rocky rises	No	Low
Calothamnus accedens	P4	-	Х		X	17.3	Sep to Jan	Sandy soils over laterite, brown loam. Road verge Lateritic soils, often gravelly. Ridges, road verges.	Yes	Medium
Calothamnus pachystachyus	P4 P4	-	X		X	18	Aug to Oct	Dense shrubland.	No No	Low
Desmocladus elongatus Diuris recurva	P4		X X		X	14.8 1.7	Jul to Aug	White or grey sand, sandy soil. Winter-wet areas.	No No	Low
Eucalyptus x carnabyi	P4	-	X		X	4	Oct to Nov	Grey sand, sandy loam. Lateritic ridges	Yes	High
Grevillea saccata	P4	-	X		X	14	Apr or Jun to Nov	Yellow or brown sand, often with lateritic gravel	No	Low
Hibbertia miniata	P4	-	X		X	18.6	Aug to Nov	Lateritic gravelly soils Red sand. Quartzite hills. In association with Open low	No No	Low
Regelia megacephala	P4	-	Х		Х	11.2	Oct to Dec	woodland of Allocasuarina huegeliana	No	Low



Appendix C Flora Inventory



Family	Species
Araliaceae	Trachymene cyanopetala
Araliaceae	Trachymene ornata
Araliaceae	Trachymene cyanopetala
Asparagaceae	Asparagaceae sp.
Asparagaceae	Sowerbaea laxiflora
Asparagaceae	Thysanotus ?thyrsoideus
Asparagaceae	Thysanotus manglesianus
Asteraceae	Arctotheca calendula*
Asteraceae	Blennospora drummondii
Asteraceae	Erymophyllum tenellum
Asteraceae	Gorteria personata*
Asteraceae	Hyalosperma glutinosum subsp. glutinosum
Asteraceae	Monoculus monstrosus*
Asteraceae	Podolepis lessonii
Asteraceae	Podolepis aristata subsp. aristata
Asteraceae	Rhodanthe pygmaea
Asteraceae	Ursinia anthemoides*
Brassicaceae	Brassicaceae sp.
Casuarinaceae	Allocasuarina huegeliana
Chenopodiaceae	Enchylaena lanata
Chenopodiaceae	Sclerolaena diacantha
Crassulaceae	Crassula colorata
Fabaceae	Acacia erinacea
Fabaceae	Acacia ?microbotrya
Fabaceae	Acacia acuminata
Fabaceae	Acacia ericifolia
Fabaceae	Acacia erinacea variant
Fabaceae	Acacia lineolata subsp. lineolata
Fabaceae	Acacia microbotrya
	Acacia saligna subsp. lindleyi
Fabaceae Fabaceae	Daviesia benthamii
Fabaceae	Daviesia bentiamii Daviesia hakeoides subsp. subnuda
Hemerocallidaceae	Dianella revoluta var. divaricata
Iridaceae	Romulea rosea*
Montiaceae	Calandrinia calyptrata
Montiaceae	Calandrinia ?baccata
Myrtaceae Orchidaceae	Eucalyptus loxophleba subsp. loxophleba Caladenia flava subsp. flava
Poaceae	Austrostina elegantissima
Poaceae	Austrostipa sp. Briza maxima*
Poaceae	
Poaceae	Ehrharta longiflora* Eragrostis curvula*
Poaceae	
Poaceae	Poaceae sp.
Primulacase	Rytidosperma sp.
Primulaceae	Lysimachia arvensis*
Proteaceae	Grevillea biternata
Proteaceae	Hakea preissi
Proteaceae	Hakea recurva subsp. recurva
Santalaceae	Exocarpos sparteus
Solanaceae	Solanum lasiophyllum
Surianaceae	Stylobasium australe
Xanthorrhoeaceae	Xanthorrhoea preissii

Appendix D Flora Site Sheets



MOORA SITE SHEETS

Project Name CBH Moora Biological Survey

Colleen McDonald 03/09/2019 Quadrat Recorder: Date: Date:
Record Type:
Soil Colour:
Soil Type:
Landform:
Condition:
Rock Type:
Rock Cover: Brown

Medium Clay - Loam

Flat Very Good

Outcropping: Total PFC: 70 Bareground: 15 Leaf Litter: 14 Logs: Fire Age: >15 years Weeds, Catlle Disturbance: Vegetation Description:

Woodland of Eucalyptus loxophleba subsp. loxophleba and Allocasuarina huegeliana over

a mid open shrubland of

Acacia lineolata subsp. lineolata, Daviesia benthamii and *Hakea preissi* over over an open forbland of *Podolepis aristata* subsp. *aristata* , *Podolepis lessonii* and *Monoculus monstrosus.



SPECIES LIST

or Edizo Elot					
Species	Height (cm)	Cover	Notes		
Acacia erinacea	200	0.5			
Acacia erinacea variant	30	0.1	Variant		
Acacia lineolata subsp. lineolata	180	40			
Allocasuarina huegeliana	210	1			
Austrostipa elegantissima	30	0.0			
Austrostipa sp.	5	0.0			
Calandrinia calyptrata	3	0.0			
Daviesia benthamii	150	31			
Dianella revoluta var. divaricata	50	0.0			
Enchylaena sp.	5	0.0			
Eucalyptus loxophleba subsp. loxophleba	1000	30			
*Gorteria personata	1	0.0			
Hakea preissi	200	10			
*Lysimachia arvensis	2	0.0			
*Monoculus monstrosus	3	0.0			
Podolepis aristata subsp. aristata	5	0.0			
Podolepis lessonii	5	0.0			
Stylobasium australe	80	0.0			
Thysanotus manglesianus	С	0.0			
Trachymene cyanopetala	2	0.0			



MOORA SITE SHEETS

Project Name CBH Moora Biological Survey

Recorder: Colleen McDonald
Date: 03/09/2019
Record Type: Quadrat
Soil Colour: Brown
Soil Type: Clay Loam
Landform: Flat
Condition: Very Good

 Rock Type:

 Rock Cover:

 Outcropping:

 Total PFC:
 80

 Bareground:
 10

 Leaf Litter:
 10

 Logs:
 1

 Fire Age:
 >15 years

Disturbance: Weeds
Vegetation Description:

A tall open forest of Eucalyptus loxophleba subsp. loxophleba and Allocasuarina huegeliana over a mid open shrubland of Exocarpos sparteus, Hakea preissi and Grevillea biternata over grassland of *Eragrostis curvula, *Ehrharta longiflora and *Briza maxima



Site

MQ02

SPECIES LIST

Species	Height (cm)	Cover Notes
Acacia ?microbotrya	50	1
Acacia ericifolia	250	1
Acacia lineolata subsp. lineolata	150	5
Acacia saligna subsp. lindleyi	90	1
Allocasuarina huegeliana	350	7
Austrostipa sp.	2	0.1
*Briza maxima	15	1
Dianella revoluta var. divaricata	20	0.2
*Ehrharta longiflora	20	0.1
*Eragrostis curvula	50	1
Eucalyptus loxophleba subsp. loxophleba	1500	40
Exocarpos sparteus	400	10
Grevillea ?biternata	200	0.1
Grevillea biternata	180	15
Hakea preissi	200	5
*Monoculus monstrosus	2	0.1
Poaceae sp.	10	50
Podolepis lessonii	3	0.1
Thysanotus manglesianus	0	0.1
Trachymene cyanopetala	2	0.1
?Trachymene sp.	2	0.1



MOORA SITE SHEETS

Project Name CBH Moora Biological Survey

Colleen McDonald Recorder: Date: 03/09/2019 Record Type: Quadrat Soil Colour: Brown, Orange Soil Type: Clay, Loam Landform: Flat Good Condition: Rock Type: Rock Cover: Outcropping: -Total PFC: 65

10

0 Logs: Fire Age: >15 years Disturbance: Weeds Vegetation Description:

Bareground: 25 Leaf Litter:

Tall woodland of *Eucalyptus loxophleba* subsp. loxophleba over tall shrubland of Hakea preissi , Acacia lineolata subsp. lineolata , Grevillea biternata over open forbland of *Briza maxima, *Monoculus monstrosus and Podolepis lessonii .



Site

MQ03

SPECIES LIST

0. 20.20 2.0.				
Species	Height (cm)	Cover Note	Notes	
Acacia erinacea	10	2		
Acacia lineolata subsp. lineolata	200	5		
*Arctotheca calendula	5	0.1		
Allocasuarina huegeliana	200	1		
Austrostipa elegantissima	50	1		
Blennospora drummondii	1	0.1		
*Briza maxima	20	0.1		
Calandrinia ?baccata	2	0.1		
Crassula colorata	5	0.1		
Daviesia benthamii	150	2		
Dianella revoluta var. divaricata	50	0.1		
Enchylaena lanata	10	0.1		
Erymophyllum tenellum	2	0.1		
Eucalyptus loxophleba subsp. loxophleba	1200	40		
*Gorteria personata	5	5		
Grevillea biternata	180	2		
Hakea preissi	500	20		
*Monoculus monstrosus	10	0.1		
Poaceae sp.	10	0.1		
Podolepis lessonii	10	1		
Solanum lasiophyllum	50	0		
Thysanotus manglesianus	1	0.1		
?Trachymene sp.	2	0.1		
Trachymene cyanopetala	5	0.1		
Trachymene ornata	3	0.1		



Appendix E Fauna Habitat Assessments



















Appendix F Black Cockatoo Potential Breeding Trees Raw Data



Latitude	Longitude	Taxa	Ciroumference	DBH	Approx Height	Hollows	> 12 om Diameter	Hollows with Bees	Comments	Tree Photo ID
-30.66608138	116.01926677	York Gum (Eucalyptus loxophleba subsp. loxophleba)	178	57	8	no	no	-		1
-30.66707690	116.01885630	York Gum (Eucalyptus loxophleba subsp. loxophleba)	164	52	10	yes	no	-		2
-30.66680730	116.01884270	York Gum (Eucalyptus loxophleba subsp. loxophleba)	168	54	8	yes	no	-		3
-30.66707730	116.01865350	York Gum (Eucalyptus loxophleba subsp. loxophleba)	196	62	10	no	no	-		4
-30.66665640	116.01848190	York Gum (Eucalyptus loxophleba subsp. loxophleba)	161	51	10	yes	no	-		5
-30.66687704	116.01809800	York Gum (Eucalyptus loxophleba subsp. loxophleba)	161	51	10	yes	no	-		6
-30.66631360	116.01763210	York Gum (Eucalyptus loxophleba subsp. loxophleba)	162	52	12	yes	no	-		7
-30.66607340	116.01638890	York Gum (Eucalyptus loxophleba subsp. loxophleba)	194	62	12	no	no	-		8
-30.66613040	116.01575978	York Gum (Eucalyptus loxophleba subsp. loxophleba)	184	59	10	no	no	-		9
-30.66610130	116.01569300	York Gum (Eucalyptus loxophleba subsp. loxophleba)	177	56	10	yes	no	-		10
-30.66665650	116.01525470	Salmon gum (Eucalyptus salmonophloia)	140	45	7	no	no	-		11
-30.66613940	116.01499630	York Gum (Eucalyptus loxophleba subsp. loxophleba)	200	64	14	yes	no	-		12
-30.66664620	116.01470020	Salmon gum (Eucalyptus salmonophloia)	132	42	10	no	no	-		13
-30.66631910	116.01469090	Salmon gum (Eucalyptus salmonophloia)	137	44	12	no	no	-		14
-30.66651050	116.01465070	Salmon gum (Eucalyptus salmonophloia)	96	31	10	no	no	-		15
-30.66656530	116.01454970	Salmon gum (Eucalyptus salmonophloia)	110	35	12	no	no	-		16
-30.66674710	116.01454640	Salmon gum (Eucalyptus salmonophloia)	116	37	10	no	no	-		17
-30.66683040	116.01444210	Salmon gum (Eucalyptus salmonophloia)	104	33	12	no	no	-		18
-30.66706160	116.01444000	York Gum (Eucalyptus loxophleba subsp. loxophleba)	265	84	16	yes	no	-		19
-30.66652810	116.01442110	Salmon gum (Eucalyptus salmonophloia)	147	47	12	no	no	-		20
-30.66672620	116.01433490	Salmon gum (Eucalyptus salmonophloia)	335	107	20	yes	yes	Yes	Bees not occupying large BC hollow.	21



















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