

FLORA AND VEGETATION ASSESSMENT CABLE BEACH FORESHORE ADAPTATION PROJECT MBS ENVIRONMENTAL, FOR THE SHIRE OF BROOME APRIL 2019





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Table of Contents

EXECUTIVE SUMMARY

1. IN	TRODUCTION	1
1.1	Background	1
1.2	Location	1
1.3	Scope of Work	1
2. EX	ISTING ENVIRONMENT	3
2.1	Climate	3
2.2	IBRA Region	
2.3	Geology and Soils	
2.4	Vegetation	4
2.5	Wetlands	5
3. M	ETHODOLOGY	7
3.1	Desktop Assessment	7
3.2	Field Survey	
4. RE	SULTS	10
4.1	Desktop Assessment	10
4.	1.1 Threatened and Priority Flora	10
4.	1.2 Introduced Flora	10
	1.3 Threatened and Priority Ecological Communities	
4.2	Field Assessment	
	2.1 Flora	
	2.2 Vegetation	
5. DI	SCUSSION	22
5.1	Flora	
5.2	Vegetation	22
	2.1 Vegetation Units	
	2.2 Vegetation Condition	
	2.3 Vegetation Representation	
	DNCLUSION AND RECOMMENDATIONS	
	FERENCES	
	IDIX A - DBCA NATUREMAP SEARCH REPORT	
	IDIX B - EPBC PROTECTED MATTERS SEARCH REPORT	
	IDIX C – FLORA SPECIES WITHIN EACH RECORDED RELEVÉ	
	IDIX D – SITE DATA	
APPEN	IDIX E – MONSOON VINE THICKET TEC CHARACTERISTIC SPECIES LIST (DSEWPAC 2013)	E1



Figures

Figure 1 - Study Area	2
Figure 2 - Climate Data for Broome Airport (003003)	Ĵ
Figure 3 - Pre-European Vegetation	<i>6</i>
FIGURE 4 – THREATENED AND PRIORITY FLORA	. 14
Figure 5 - Threatened and Priority Ecological Communities	. 16
Figure 6 – Vegetation Units	. 19
Figure 7 – Vegetation Condition	.21



EXECUTIVE SUMMARY

The Shire of Broome has developed the Cable Beach Foreshore Master Plan (CBFMP) which addresses conceptual design and was adopted by the Shire of Broome Council in September 2017. As part of studies to inform the detailed design, MBS Environmental (MBS) was engaged by the Shire of Broome to undertake environmental and heritage assessments. Focused Vision Consulting Pty Ltd (FVC) was in-turn commissioned by MBS to undertake the flora and vegetation assessment component of the work. This report presents the findings of this assessment.

The study area occupies 3.30 hectares (ha) and is located at the Cable Beach foreshore, west of Cable Beach Road.

FVC undertook a desktop assessment followed by a reconnaissance flora and vegetation field assessment which was completed on 7 March 2019 by Principal Ecologist, Kellie Bauer-Simpson.

The key findings, conclusions and recommendations arising from the flora and vegetation assessment within the study area are as follows:

- A total of 20 flora taxa, from 19 genera and 14 families were recorded during the reconnaissance survey, including 15 (80%) native species and five (20%) introduced (weed) species.
- None of the weed species recorded are listed as Declared Pest plants under the *Biosecurity and Agriculture Management Act 2007* (BAM Act), nor are any listed as Weeds of National Significance (WoNS).
- No Threatened flora protected under the BC Act or under the EPBC Act were recorded and no Priority flora were recorded.
- No recorded species exhibited an extension beyond their current documented range, in accordance
 with records of the Western Australian Herbarium (DBCA 2018a), besides Casuarina obesa, which is not
 naturally occurring and likely to have been planted. This occurrence is not considered a rangeextension.
- Three intact vegetation units and two disturbed/planted areas were described and mapped from four relevés and various observation points throughout the study area.
- The vegetation of the study area ranges in condition from 'Very Good' to 'Completely Degraded', with most of the vegetation found to be in 'Degraded' condition.
- The regional vegetation/vegetation association of the study area, vegetation association 750 (Beard 1990), is represented by 99.56% of its pre-European extent and therefore, the vegetation of the study is not significant due to poor regional representation.
- It is considered that the monsoon vine thicket TEC is represented within the MVT vegetation unit within the study area, based on positive results in comparison to the key characteristics; and this occurrence of the TEC is also considered to meet condition thresholds.
- The patch of monsoon vine thicket TEC mapped within the study area totals 0.37 ha and this patch is considered to be confirmed to within the study area.
- The timing of the survey (early March, following the majority of the wet season) was considered suitable for a flora and vegetation assessment, although the preceding February and December recorded significantly lower than average rainfall and therefore, the flowering season in the region (March to



June) has the potential to be poorer than usual. However, this is not expected to have influenced the characterisation of the monsoon vine thicket TEC within the study area.

Based on the findings of the study, the following recommendations are provided for consideration:

- Although it is understood that clearing is proposed as part of the Master Plan, where possible, or where
 native vegetation is to be retained, it is recommended that clearing of vegetation is minimised,
 including within vegetation units FD, HD and particularly MVT, which is considered to be a
 representation of the monsoon vine thicket TEC.
- Whilst the existing conditions within the study area and on the Cable Beach Foreshore do not provide a 50 m buffer, as preferred by the Conservation Advice (DSEWPaC 2013), it is recommended that future redevelopment aim to avoid or minimise further encroachment on the TEC vegetation from that which is currently in existence, which would be in accordance with exemptions for continuing use.
- It is recommended that management plans be prepared and implemented for both the design and construction phases of the redevelopment, as well as the ongoing operational and maintenance phases, including, but not limited to:
 - o Limiting clearing or other direct or indirect impacts on native vegetation, where possible
 - o Management measures that address the key threats to the monsoon vine thicket TEC, including:
 - an appropriate fire management plan that addresses risk management and rapid response
 - an appropriate weed management plan that addresses active control and avoidance of continued weed invasion into sensitive areas
 - appropriate drainage design with ongoing maintenance, to ensure that hydrological regimes are not altered
 - measures to ensure access to sensitive areas and subsequent impacts are excluded (e.g. signage and fencing, if appropriate).



1. INTRODUCTION

1.1 BACKGROUND

The Shire of Broome has developed a conceptual master plan for Cable Beach Foreshore area, the Cable Beach Foreshore Master Plan (CBFMP), which was adopted by the Shire of Broome Council in September 2017.

As part of the Environmental and Cultural Heritage Investigations to inform the detailed design of the foreshore redevelopment, Focused Vision Consulting Pty Ltd (FVC) was commissioned by MBS Environmental (MBS) to undertake the flora and vegetation assessment component of the work. This report presents the findings of the flora and vegetation assessment conducted within the study area.

1.2 LOCATION

The 3.30 hectare (ha) study area is located at the Cable Beach foreshore, west of Cable Beach Road, within the Shire of Broome, as shown in **Figure 1**.

1.3 SCOPE OF WORK

The full scope of work required to be fulfilled is as follows:

- undertake a desktop flora and vegetation assessment of the study area
- undertake a reconnaissance field flora and vegetation assessment of the study area
- provide a report that documents the findings of the above, and that could contribute to the broader Environmental Assessment Report for the project.



GDA 94 / MGA Zone 50

Figure 1 - Study Area









2. EXISTING ENVIRONMENT

2.1 CLIMATE

The study area lies within the Kimberley Region of Western Australia. This region has a tropical climate with hot and humid summers and warm winters. There are two distinct seasons: the 'wet' usually from December to March and the 'dry' for the remainder of the year (Bureau of Meteorology 2019). Tropical cyclones can be experienced during the months from November to April, but are most common in January and February (Bureau of Meteorology 2019).

Broome Airport (Site Number 003003) is one of the Bureau of Meteorology (BoM) meteorological recording stations which has been recording since 1939 and has recorded an average annual rainfall of 628.1 mm (BoM 2019). The annual mean maximum temperature ranges from 28.9°C in winter to 34.0°C in summer (BoM 2019) (**Figure 2**).

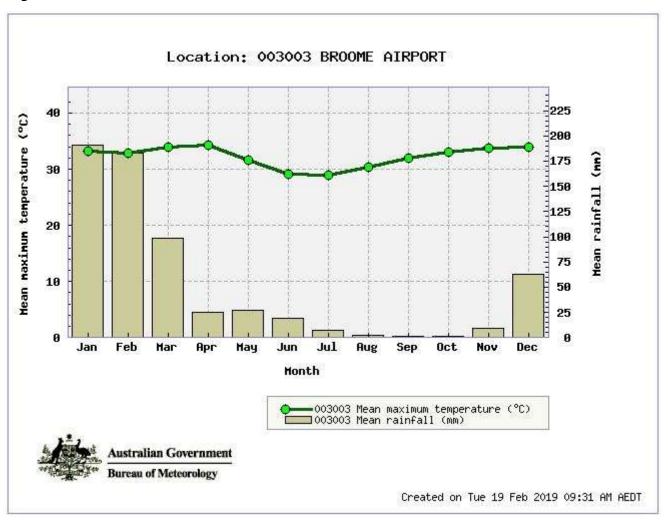


Figure 2 - Climate Data for Broome Airport (003003)



2.2 IBRA REGION

There are 89 recognised Interim Biogeographic Regionalisation for Australia (IBRA) regions across Australia that have been defined based on climate, geology, landforms and characteristic vegetation and fauna (Commonwealth of Australia 2013). The study area lies within the Dampierland (DAL) IBRA region and, at a finer scale, within the Pindanland subregion (DAL02) (Graham 2001).

The Dampierland bioregion is characterised by extensive plains, ranges and spectacular gorges. The Pindanland subregion comprises of sandplains of the Dampier Peninsular and western part of Dampierland, including the hinterland of the Eighty Mile Beach. It is a fine-textured sand sheet with subdued dunes and includes the paleodelta of the Fitzroy River. The vegetation is described as pindan. This is the coastal, semi-arid, north-western margin of the Canning Basin (Graham 2001).

2.3 GEOLOGY AND SOILS

The study area is situated on a flat to gently undulating plain of the Dampier Peninsula. The Dampier Peninsula is underlain by the ancient (Precambrian) rocks of the Canning Basin. The geology of the study area comprises "red sand, fine to medium, minor silt; Aeolian" (Geological Survey of Western Australia, 1982).

The principal soil-type of the Dampier Peninsula is the pindan, which developed during the Quaternary period on desert dune sandstone. The soils of the area are red earthy sands, which are of wind-blown origin (Kenneally *et al.* 1996).

Within the Broome area, the pindan is often overlain by a layer of more recent, coarser and unconsolidated sand, which assists in water penetration, plant establishment and growth (Kenneally *et al.* 1996).

2.4 VEGETATION

The study area is located on the Dampier Peninsula and the vegetation has been broadly characterised by Beard (1990). The Beard vegetation associations supported by the study area and the remaining extent across a range of contexts are presented in **Table 1** and spatially in **Figure 3**.

Table 1 - Pre-European Vegetation of the Study Area (Beard 1990, DBCA 2019a)

Veg. Association No.	Broad Vegetation Description	Extent Context	Pre–European Extent (ha)	Current Extent (ha)	% Pre- European Extent Remaining	% Current Extent Protected (IUCN I –IV)
750	Shrublands, pindan, Acacia tumida shrubland with grey box and cabbage gum medium woodland over ribbon grass and curly spinifex	Western Australia	1,231,155.50	1,225,687.52	99.56	2.70

One of the objectives of the Environmental Protection Authority (EPA) in terms of vegetation protection is maintaining at least 30% of each vegetation complex. The following key criteria are applied to vegetation protection from clearing (EPA 2000):

- the 'threshold level' below which species loss appears to accelerate exponentially within an ecosystem level, is regarded as being at a level of 30% (of the pre-European, i.e. pre-1750 extent of the vegetation type)
- a level of 10% of the original extent of a vegetation community is regarded as being a level representing Endangered
- clearing which would increase the threat level to a vegetation community should be avoided.



All of the documented (Beard 1990) remaining vegetation extents applicable to the study area are above the 30% minimum threshold level (**Table 1**) and therefore meet the EPA objective of retention for the purpose of biodiversity conservation.

2.5 WETLANDS

There are no wetlands listed under the Directory of Important Wetlands in Australia relevant to the study area. The closest wetland listed is located approximately 3 km to the east of the study area. The closest Ramsar Wetland, a section of Roebuck Bay, is located approximately 11 km south-east of the study area (DoEE 2019).



GDA 94 / MGA Zone 50

Figure 3 - Pre-European Vegetation







3. METHODOLOGY

The assessment for flora and vegetation was carried out in accordance with:

- Environmental Protection (Clearing of Native Vegetation) Regulations 2004
- EPA (2016a) Technical Guidance Flora and Vegetation Surveys for Environmental Impact Assessment
- Department of Environmental Regulation (2014) A Guide to the Exemptions and Regulations for Clearing Native Vegetation under Part V of the Environmental Protection Act 1986.

3.1 DESKTOP ASSESSMENT

Results of searches of the Department of Biodiversity, Conservation and Attractions (DBCA) Threatened and Priority Flora and Ecological Communities databases were compiled for the desktop assessment (DBCA 2019b, 2019c, 2019d). Other available information was also sourced through searches of NatureMap and the Commonwealth Department of the Environment and Energy (DEE) Protected Matters Search Tool (PMST), for Matters of National Environmental Significance (MNES), listed under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) associated with the site.

The suite of information gathered from the desktop assessment was used to generate potential species lists tailored to the study area, with a focus on Threatened and Priority flora and ecological communities and assisted in determining species and areas of the study site to particularly focus on during the field assessment.

A review of the following publicly available information included:

- DBCA NatureMap Species Report (**Appendix A**), providing:
 - o flora species listed as rare (Threatened (T)) or likely to become extinct
 - o flora species protected under international agreements (IA)
 - o flora species listed as Priority 1 to 5 (P1, P2, P3, P4, P5)
 - o other non-conservation taxa recorded or known to the area.
- EPBC Act PMST results for the study area (**Appendix B**), providing results relevant to:
 - o the following MNES:
 - World Heritage Properties
 - National Heritage Places
 - Wetlands of International Importance
 - Great Barrier Reef Marine Park
 - Commonwealth Marine Areas
 - Listed Threatened Ecological Communities
 - Listed Threatened Species (flora and fauna)
 - Listed Migratory Species.
 - the following other matters protected by the EPBC Act:
 - Commonwealth Land
 - Commonwealth Heritage Places
 - Listed Marine Species
 - Whales and other Cetaceans
 - Critical Habitats
 - Commonwealth Reserves (Terrestrial)
 - Commonwealth Reserves (Marine).
- spatial data sourced from DBCA for:
 - o Threatened and Priority flora, across the study area
 - Threatened and Priority Ecological Communities, across the study area.



relevant technical reports:

- o ecologia (2012a) Sheffield Resources Ltd. Thunderbird Dampier Peninsula Project. Level 1 Flora and Fauna Assessment. November 2012.
- o ecologia (2012b) Woodside Energy Ltd. James Price Point: Light Industrial Area, Workers' Accommodation Camp, Southern Pipeline. Vegetation and Flora Survey. October 2012.
- o GHD (2009) LandCorp Broome North: Southern Portion (Area A) Preliminary Environmental Impact Assessment and Biological Survey. September 2009.
- Black, S. J., Willing T., and Dureau, D. M. (2010) A comprehensive survey of the flora, extent and condition of vine thickets on coastal sand dunes of Dampier Peninsula, West Kimberley, 2000-2002. Prepared for the Broome Botanical Society. Final Report September 2010.
- o Reynolds, S., Beames, L., Willing, T., and Parker, C. (2018) Distribution, ecology and cultural importance of Gunurru or Cable Beach Ghost Gum *Corymbia paractia* in the Broome Area, Western Australia. Environs Kimberley, Broome.
- AECOM (2017) Flora, Vegetation and Fauna Assessment, Broome Asparagus Farm. July 2017.
- Phoenix Environmental Services (2017) Flora and vegetation survey and terrestrial fauna survey for Shamrock Station Irrigation Project. Prepared for Argyle Cattle Company Pty Ltd. August 2017.

3.2 FIELD SURVEY

The field assessment was carried out by Principal Ecologist, Kellie Bauer-Simpson, on 7 March 2019, which comprised a single-phase reconnaissance flora and vegetation assessment, in accordance with the Environmental Protection Authority (EPA) Technical Guidance – Flora and Vegetation Surveys for Environmental Impact Assessment (EPA 2016a).

Field data was collected predominantly on electronic tablet equipped with the mobile mapping software Mappt™, which contains customised electronic data forms. The mobile mapping software allows in-field spatial determination of boundaries for vegetation communities, condition areas and habitats, as well as the collection of spatial point data where individual species or other observations or photographs are captured.

Field data was collected from four non-permanent flora and vegetation assessment relevés (detailed data collection points), in accordance with EPA guidance for a reconnaissance survey. Data collected was representative of the diversity of floristic values of the study area. Observations were recorded and opportunistic data collection was also carried out continuously whilst traversing the study area.

The following information was collected at each relevé:

- observer
- date
- GPS location (MGA94)
- representative photograph
- soil type and colour
- topography
- vegetation condition/degradation/disturbances (e.g. grazing, weed invasion, fire)
- flora species observed, including average height and projected foliage cover of dominant species within each stratum



- vegetation community, described in accordance with Level 5 of the National Vegetation Information System (NVIS)
- vegetation condition, assessed against the currently accepted scale; an adaptation of the Keighery (1994) and Trudgen (1988) condition scales.

Prior to the field survey, the locations of all Priority flora retrieved from the various database searches and literature reviews was collated. A proportion of the field assessment time was dedicated to selected targeted searches for relevant flora, in suitable habitats. Conservation significant flora were also opportunistically surveyed throughout the assessment of the study area.

If observed, the location of each potentially significant taxon collected was to be recorded using a GPS-enabled tablet and the local abundance, landform and associated flora species noted. Representative photographs were also to be taken.

Flora specimens were collected, pressed, dried and fumigated in accordance with the protocols of the Western Australian Herbarium, for later identification. Flora identifications were undertaken by botanical taxonomist, Sharnya Thomson-Yates, who specialises in arid-region flora. Taxonomy and nomenclature followed current protocols of the WA Herbarium.

The flora and vegetation data collected from the combination of relevés and continuous opportunistic observations contributed to the flora inventory for the study and was utilised to digitise mapping boundaries for the range of vegetation units present within the study area, as well as the varying vegetation condition. This mapping was refined following return from the field, using GIS mapping software, based on initial mapping prepared in the field, within the Mappt™ software. Only areas supporting native vegetation were surveyed in detail, with only broad mapping applied to areas of kept gardens, lawns and planted tree groves. Areas of completely cleared roads and tracks and the beach were not mapped. The mapped areas comprise 2.54 ha of the 3.30 ha study area.



4. RESULTS

4.1 DESKTOP ASSESSMENT

The DBCA database searches, NatureMap Species Report, the MNES Report and literature review returned results for the potential presence of conservation-significant flora and ecological communities within the study area. These results are presented in the following sections.

4.1.1 Threatened and Priority Flora

The DBCA database search, NatureMap Species Report and the MNES Report conducted for the study area returned results for ten species of Threatened and Priority flora previously recorded within or in proximity to the study area (**Table 2**). The DBCA database search only returned results for Priority flora species previously recorded within a 50 km buffer of the study area (**Figure 4**).

The 19 previously recorded significant flora comprises of one Commonwealth and State-listed Threatened flora species, three Priority 1, one Priority 2, thirteen Priority 3 and one Priority 4 species. Of these, it was determined that three species are likely to occur, nine may occur and seven are considered unlikely to occur in the study area (**Table 2**). Interrogation of the databases indicates that no species of conservation significance have been previously recorded within the study area.

4.1.2 Introduced Flora

The Shire of Broome has 45 Declared Pest plants listed under Section 22(2) of the *Biosecurity and Agriculture Management 2007* (BAM Act), the following six of which have the highest level of control category applied (C2; Eradication):

- *Chondrilla juncea (skeleton weed)
- *Pistia stratiotes (water lettuce)
- *Prosopis glandulosa x Prosopis velutina (mesquite)
- *Ulex europaeus (gorse)
- *Xanthium spinosum (thorny burweed)
- *Xanthium strumarium (sheepbur).



Table 2 - Threatened and Priority Flora with the Potential to Occur Within the Study Area

Species	WA Cons. Status	EPBC Cons. Status	Description	Preferred Habitat	Likelihood of Occurrence	Source
Seringia exastia	Threatened- Critically Endangered	Critically Endangered	Erect, compact, multi- stemmed shrub that can grow to 0.9 m high. Flowers purple, April to December.	Pindan (red soil) heathland - occur on almost flat land and associated vegetation includes Feathertop Spinifex (<i>Triodia schinzii</i>) and scattered trees, under 7 m in height, of Soap Wattle (<i>Acacia colei</i>), Bloodwood (<i>Eucalyptus dampieri</i>).	Likely to occur - species habitat likely to occur within study area and species is documented as occurring in similar landforms within 4 km of the study area.	ЕРВС
Corymbia paractia	Priority 1	-	Tree (often several-stemmed), 4-6(-12) m high, bark smooth, white, shedding in thin scales. Fl. white, Apr to May or Oct to Dec.	Skeletal soils. In transition zone between coastal beach dunes & red pindan soils.	Likely to occur - species habitat likely to occur within study area and species previously recorded within the study area.	DBCA
Jacquemontia sp. Broome (AA Mitchell 3028)	Priority 1	-		Acacia eriopoda in disturbed pindan woodland.	May occur - species habitat may occur within study area; documented records not within 10 km.	DBCA
Thespidium basiflorum	Priority 1	-	Densely tufted, multi- stemmed perennial, herb, to 0.2 m high. Fl. green, May to Aug.	Occurs in sandy soils, creek beds.	Unlikely to occur— the species has been recorded within the study area proximity, but no creeks or drainage areas are supported.	DBCA
Gomphrena pusilla	Priority 2	-	Slender branching annual, herb, to 0.2 m high. Fl. white, Mar to Apr or Jun.	On fine beach sands behind foredunes or on limestone.	May occur - species habitat occurs within the study area, but nearest known records are over 30 km away.	DBCA
Acacia monticola x tumida var. kulparn	Priority 3	-	Low-domed (semi-prostrate), spreading shrubs.	On coastal cliffs and red sand/loam/rocky gullies.	May occur – the species has been recorded within 5 km of the study area, but coastal cliffs or gullies are not present.	DBCA
Aphyllodium glossocarpum	Priority 3		Spreading or erect shrub, to 1.2 m high. Fl. pink-purple, Apr to Oct.	Occurs in sand verging onto cleared areas and open grassland fringes. Pindan soils.	May occur - species habitat may occur within the study area and species has been recorded within 5 km.	DBCA



Species	WA Cons. Status	EPBC Cons. Status	Description	Preferred Habitat	Likelihood of Occurrence	Source
Bonamia oblongifolia	Priority 3		Perennial, herb or shrub. Fl. blue, Feb.	Sandy or gravelly soils.	May occur - species habitat may occur within study area, although nearest record is 44 km away.	DBCA
Glycine pindanica	Priority 3	-	Prostrate or scrambling perennial, herb or climber. Fl. pink/blue-purple, Feb to Mar or Jun.	Pindan soils.	May occur - species habitat may occur within study area and nearest record is within 4 km.	DBCA
Goodenia byrnesii	Priority 3	-	Prostrate to decumbent herb, stems to 30 cm. Fl. yellow, Jan to Feb.	Sand. Edge of creek.	Unlikely to occur— the species has been recorded within 5 km of the study area, but no creeks or drainage areas are supported.	DBCA
Lophostemon grandiflorus subsp. grandiflorus	Priority 3	-	Tree, 4-8 m high. Fl. cream- white, apparently Jan to Dec.	Occurs in damp habitats (swamps, seepages).	Unlikely to occur— nearest record is almost 48 km to the north and suitable habitat is unlikely to be supported.	DBCA
Nicotiana heterantha	Priority 3	-	Decumbent, short-lived annual or perennial, herb, to 0.5 m high, forming low, spreading colonies. Fl. white- cream, Mar to Jun or Sep.	Black clay. Seasonally wet flats.	Unlikely to occur– nearest record is within 7 km although suitable habitat is unlikely to be supported.	DBCA
Polymeria sp. Broome (KF Kenneally 9759)	Priority 3	-	Prostrate herb 10 cm high x 30 cm wide, trailing herb with greyish green leaves and mauve flowers.	Red, pindan soils.	May occur - species habitat may occur within study area although nearest record is almost 50 km to the north.	DBCA
Seringia katatona	Priority 3	-	Erect, compact, multi- stemmed shrub, to 1 m high, grey leaved. Fl. purple, Mar to Aug.	Desert dunes in pindan, ranges, disturbed areas on red sands.	Likely to occur - species habitat likely to occur within study area and species is documented within 4 km of the study area.	DBCA



Species	WA Cons. Status	EPBC Cons. Status	Description	Preferred Habitat	Likelihood of Occurrence	Source
Stylidium pindanicum	Priority 3	-	Annual herb to about. 0.3 m high. Leaves slender, numerous, held in a terminal rosette. Fl. pink or mauve, May to Aug.	Restricted to seasonally damp areas over pindan sands (Barrett <i>et al.</i> 2015).	Unlikely to occur— nearest record is 18 km away and suitable habitat is unlikely to be supported.	DBCA
Tephrosia andrewii	Priority 3	-	Ascending, multi-stemmed shrub, to 0.8 m high. Fl. orange, Apr or Oct.	In dry sand Pindan soils, on hill sides and road verges.	Unlikely to occur— nearest record is 50 km away and suitable habitat is unlikely to be supported.	DBCA
Terminalia kumpaja	Priority 3	-	Large tree.	Pindan, sandy soils.	May occur - species habitat may occur within study area and nearest record is within 3 km.	DBCA
Tetragonia coronata	Priority 3	-	Decumbent annual, herb. Fl. yellow, Jul.	Occurs on calcrete outcrops, red clay loamy soil, in the shade of larger shrubs.	Unlikely to occur– nearest record is 18 km away although suitable habitat is unlikely to be supported.	DBCA
Pittosporum moluccanum	Priority 4	-		White sand. Sand dunes.	May occur - species habitat likely to occur within study area although nearest record is 50 km to the north.	DBCA

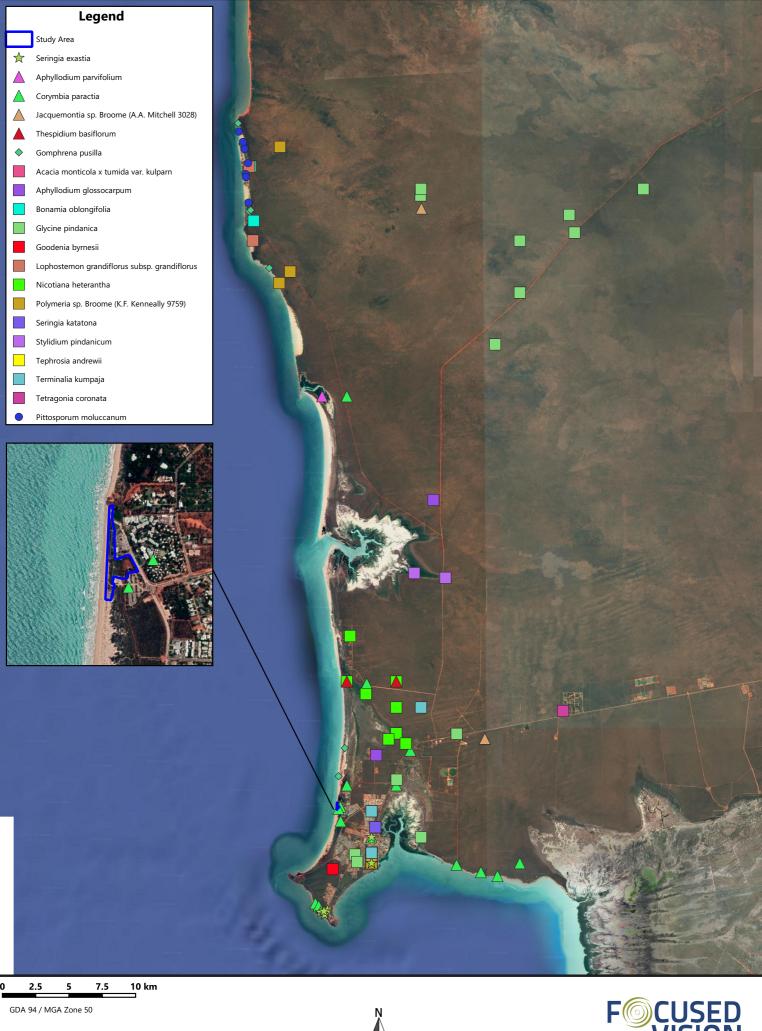


Figure 4 - Threatened **Priority Flora**







4.1.3 Threatened and Priority Ecological Communities

A review of DBCA's Threatened and Priority Ecological Communities (TEC and PEC) database and the EPBC Protected Matters Search Tool identified two Ecological Communities: 'Monsoon vine thickets on the coastal sand dunes of the Dampier Peninsula' (monsoon vine thicket TEC) and 'Corymbia paractia dominated community on dunes' or their buffers intersecting with the study area (DBCA 2019b) (Figure 5), with both significant ecological communities considered likely to be supported by the study area.

The monsoon vine thicket TEC is both a Commonwealth-listed TEC categorised as 'Endangered' and a State-listed TEC categorised as 'Vulnerable', and it represents the southern-most occurrence of rainforest (dry monsoon rainforests) in Western Australia, providing refuge habitat for many plants and animals at the southern-most limit of their Australasian range. These vine thickets are confined to coastal dunes (and in some cases other unconsolidated Holocene coastal landforms) and have been shown to be distinct from other types of rainforest in the Kimberley region (Black *et al.* 2010).

The *Corymbia paractia* ecological community is a Priority 1, State-listed PEC. *Corymbia paractia* is endemic to the Kimberley region of Western Australia and is restricted to the Broome Peninsula and immediate vicinity. It is mainly confined to a relatively narrow coastal zone, where beach dunes merge into pindan soils, with some patches occurring across the Peninsula (Reynolds *et al.* 2018).

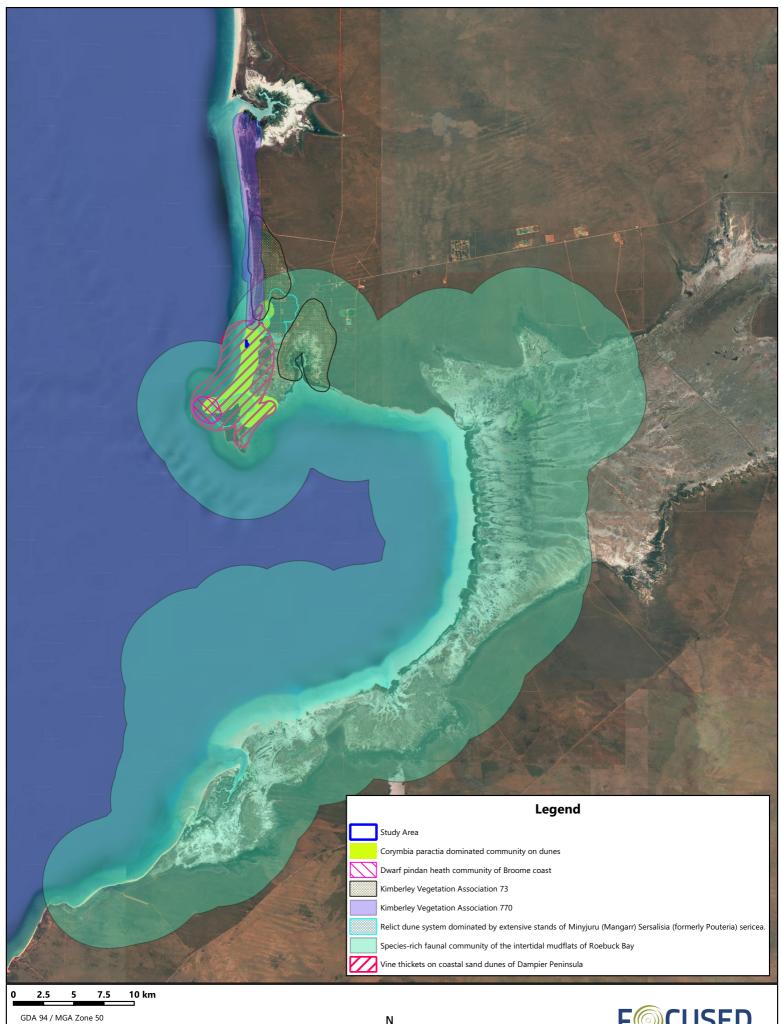


Figure 5 - Threatened and Priority Ecological Communities







4.2 FIELD ASSESSMENT

4.2.1 Flora

Within areas of native remnant vegetation (excluding kept gardens and planted areas), 20 flora taxa, from 19 genera and 14 families were recorded during the reconnaissance field survey. The predominant families were Fabaceae (six taxa) and Poaceae (two taxa). The total includes 15 (80%) native species and five (20%) introduced (weed) species. One of the recorded native species, *Casuarina obesa*, is non-endemic, naturally occurring in the south-west of the State and likely to have been planted to provide shade on Cable Beach. None of the weed species recorded are listed as Declared Pest plants under the *Biosecurity and Agriculture Management Act 2007* (BAM Act), nor are any listed as Weeds of National Significance (WoNS). The full list of vascular flora species recorded within each relevé is presented in **Appendix C** and individual site data is presented in **Appendix D**.

No recorded species exhibited an extension beyond their current documented range, in accordance with records of the Western Australian Herbarium (DBCA 2018a), besides *Casuarina obesa*, which is not naturally occurring and likely to have been planted. This occurrence is not considered a range-extension.

No species listed as Threatened flora under the WC Act or the EPBC Act were recorded. Furthermore, no species listed as Priority flora were recorded.

The timing of the survey (early March, following the majority of the wet season) was considered suitable for a flora and vegetation assessment, although the month preceding the survey (February 2019) was considerably drier than usual, recording only 25.0 mm of rain compared to the mean for that month of 181.0 mm. December of 2018 was also significantly dry, with only 12.2 mm of a mean of 62.7 mm being recorded. The region experiences the majority of seasonal rainfall between December and March, with January and February typically recording 69% of the fall volumes of these four months. Therefore, with only 14% of the average rainfall for February falling during 2019, and only 19% of the average rainfall for December falling during 2018, two months prior, the flowering season in the region (March to June) has the potential to be poorer than usual.

4.2.2 Vegetation

Three intact vegetation units and two disturbed/planted areas were described and mapped from four relevés and various observation points throughout the study area, as described in **Table 3** and presented spatially in **Figure 6**. The individual site data for each of the recorded relevés is presented in **Appendix D**.



Table 3 - Summary of Recorded Vegetation Units

Unit Code	Vegetation Unit Description	Representative Relevé (R)
Mapped	Intact Native Vegetation Units	
MVT	Monsoon Vine Thicket Thicket of <i>Gyrocarpus americanus, Grewia breviflora</i> and *Delonix regia, with various creeping vines, predominantly <i>Ipomoea pes-caprae</i> subsp. brasiliensis.	R01
FD	Foredune Dense Hummock Grassland of <i>Spinifex longifolius</i> and * <i>Cenchrus ciliaris</i> with <i>Ipomoea pes-caprae</i> subsp. <i>brasiliensis</i> .	R03
HD	Higher Dune Dense Hummock Grassland of Spinifex longifolius and *Cenchrus ciliaris with Dwarf Scrub D of Trichodesma zeylanicum and Crotalaria medicaginea var. neglecta, with creeping vines, predominantly Ipomoea pes-caprae subsp. brasiliensis and Canavalia rosea.	R04
Planted	and disturbed areas	
PR	Planted/Regrowth Previously cleared areas comprising weeds and disturbed regrowth, dominated by Senna occidentalis and Cenchrus ciliaris, with occasional planted (likely non-endemic) trees, including Corymbia sp	R02
КG	Kept Gardens and Planted Trees Previously cleared areas comprising kept gardens, lawns and planted groves of trees within built areas, including <i>Senna</i> spp., <i>Acacia</i> spp. and <i>Corymbia</i> spp., <i>Plumeria</i> sp. (Frangipani) and various palms.	NA Not surveyed with relevés, study site or flora inventory due to non- native character





The area occupied by each of the vegetation units and other mapped areas within the study area is summarised in **Table 4**.

Table 4 - Areas of Mapped Vegetation

Unit Code	Vegetation Unit Name	Area (ha)	% of Study Area			
Mapped	Intact Native Vegetation Units					
MVT	Monsoon Vine Thicket	0.37	14.57			
FD	Foredune	1.12	44.09			
HD	Higher Dune	0.04	1.57			
Planted a	Planted and disturbed areas					
PR	Planted/Regrowth	0.58	22.83			
KG	Kept Gardens and Planted Trees	0.43	16.93			
	Total	2.54	100.00			

The vegetation of the study area ranges in condition from 'Very Good' to 'Completely Degraded', with most of the vegetation found to be in 'Degraded' condition. The areas of varying vegetation condition are summarised in **Table 5**, with the spatial extent of these presented in **Figure 7**.

Table 5 – Areas of Varying Vegetation Condition

Condition Code	Condition	Area (ha)	% of Study Area
VG	Very Good	0.31	12.20
G	Good	0.01	0.39
D	Degraded	0.74	29.13
D-CD	Degraded to Completely Degraded	0.94	37.01
CD	Completely Degraded	0.54	21.26
	Total	2.54	100.00



MBS18001 16 April 2019



5. DISCUSSION

5.1 FLORA

A total of 20 flora species were recorded during the survey which includes 15 (80%) native species and five (20%) introduced (weed) species. The broad area consists of relatively large areas of kept lawns and gardens, and planted tree groves including palms, Frangpani and other endemic shrubs and trees. These planted and garden areas were not assessed as part of the flora inventory.

The low floral diversity can be attributed to a range of factors, such as the small size of the study area, as well as the highly modified nature of the majority of the site and the ongoing disturbances and pressures of an area subject to intensive use for general recreation. The timing of the field survey, in early March, following a relatively dry wet-season (particularly for December 2018 and February 2019), is likely to have had some effect on the diversity of species recorded.

No species were recorded outside their known range based on distributions from the WA Herbarium records. *Casuarina obesa,* which is not naturally occurring, is likely to have been planted on Cable Beach to provide shade. This species is endemic to the south-west of Western Australia, although not considered to be exhibiting a range-extension in the study area.

Several other non-endemic plant taxa also occur, particularly within the kept gardens, Frangpani and a species of *Corymbia*, which was not able to be identified due to a lack of fruiting material. One introduced species, **Delonix regia*, recorded within the MVT vegetation unit, is likely to have invaded this native remnant vegetation from nearby kept gardens, as this cultivated species is widely used for its attractive red flowers.

None of the introduced (weed) species recorded are listed as WoNS or as Declared Pest plants under the BAM Act.

5.2 VEGETATION

5.2.1 Vegetation Units

Three intact vegetation units and two disturbed/planted areas were described and mapped within the study area. The three vegetation units that represent native remnant vegetation are described as follows:

• Monsoon Vine Thicket

Thicket of *Gyrocarpus americanus, Grewia breviflora* and *Delonix regia, with various creeping vines, predominantly *Ipomoea pes-caprae* subsp. *brasiliensis*.

Foredune

Dense Hummock Grassland of *Spinifex longifolius* and **Cenchrus ciliaris* with *Ipomoea pes-caprae* subsp. *brasiliensis*.

• Higher Dune

Dense Hummock Grassland of *Spinifex longifolius* and **Cenchrus ciliaris* with Dwarf Scrub D of *Trichodesma zeylanicum* and *Crotalaria medicaginea* var. *neglecta,* with creeping vines, predominantly *Ipomoea pes-caprae* subsp. *brasiliensis* and *Canavalia rosea.*

The other mapped areas consist of disturbed/planted areas and kept lawns and gardens, which were not formally described as part of the flora and vegetation assessment, although their spatial extent has been mapped. Such areas support little, if any ecological value.



5.2.2 Vegetation Condition

Overall, the vegetation of the study area ranges in condition from 'Very Good' to 'Completely Degraded' (where no remaining native vegetation occurs, including within cleared infrastructure footprints, and in areas consisting of only kept lawns and gardens).

Of the three intact vegetation units recorded and mapped, MVT was found to support vegetation in mostly 'Very Good' condition, with small areas in 'Good' and in 'Degraded to Completely Degraded' condition. The disturbed area appears to have resulted from an isolated previous disturbance such as clearing, as evident in **Plate 1**.



Plate 1 - An area within the MVT vegetation unit in 'Degraded to Completely Degraded' condition

The 'Very Good' condition of the area of MVT has likely retained its condition due to its impenetrable and inhospitable nature to users of the area, who would be unlikely to venture into the dense vegetation. Some weed invasion is evident, however, which includes that of garden cultivars which are likely to have established from seed stock from nearby kept gardens.

The FD vegetation unit supports vegetation in mostly 'Degraded' condition, but with some area in 'Degraded to Completely Degraded' condition. The third intact vegetation unit, HD, was observed to be in 'Degraded' condition. These areas are likely to be more degraded due to better accessibility by recreational users of the area, and to their more exposed position, in comparison to the area of vegetation unit MVT.



5.2.3 Vegetation Representation

The objective of the EPA in relation to flora and vegetation is; *To protect flora and vegetation so that biological diversity and ecological integrity are maintained* (EPA 2016b). This objective is documented in the EPA Environmental Factor Guideline - Flora and Vegetation (EPA 2016b), which has superseded a number of documents including Position Statement No. 2 (EPA 2000). With a lack of quantifiable retention targets outlined in the new factor guideline, the 30% threshold/retention target as documented in Position Statement 2 remains a useful guideline for determining whether or not adequate proportions of native vegetation are being conserved. Position Statement No. 2 (EPA 2000) outlined criteria aimed to help reverse the long-term decline in the quality and extent of Western Australia's native vegetation cover.

The criteria are as follows:

- the "threshold level" below which species loss appears to accelerate exponentially at an ecosystem level is regarded as being at a level of 30% of the pre-clearing extent of the vegetation type
- a level of 10% of the original extent is regarded as being a level representing "endangered"
- clearing which would put the threat level into the class below 10% should be avoided
- from a biodiversity perspective, stream reserves should generally be in the order of at least 200 m wide.

The status of remaining vegetation can be delineated into five different classes:

- Presumed extinct probably no longer present in the bioregion
- Endangered <10% of pre-European extent remains*
- Vulnerable 10-30% of pre-European extent exists*
- Depleted >30% and up to 50% of pre-European extent exists*
- Least concern > 50% pre-European extent exists and has been subject to little or no degradation over a majority of this area.

The study area is considered to be in an unconstrained region, and as such, the minimum retention target of 30% of the original vegetation extent is considered appropriate. The Beard (1990) vegetation association of the study area, vegetation association 750, is represented by 99.56% of its pre-European extent in the region (**Table 1**). Therefore, the vegetation of the study is not significant due to poor regional representation.

5.2.4 Significant Ecological Communities

5.2.4.1 Corymbia paractia community

Even though the 'Corymbia paractia dominated community on dunes' community was reported in the desktop assessment to have its buffer intersecting with the study area, this significant ecological community was not recorded within the study area during the field assessment. Therefore, it can be confirmed that the Priority 1, State-listed PEC does not occur in the study area.

5.2.4.2 Monsoon Vine Thicket TEC

Characterisation and Diagnosis

The monsoon vine thicket TEC, a Commonwealth and State-listed TEC, is described in its Interim Recovery Plan (DBCA 2018b) as a very distinctive type of rainforest, confined to the Peninsula between Broome and Derby, along with the coastal dune formations on which it occurs. The TEC occurs as semi-deciduous vine thickets on leeward slopes and swales of coastal sand dunes on the Dampier Peninsula, and is likely to be an indicator of the movement of the dune system over time. The community generally occurs on deep dune sands with a dark superficial grey organic layer, with a surface layer of moist leaf litter, but it can occur on other substrates due to other influences. The vine thickets occur as discrete areas of dense vegetation and can occur as a stand of a

^{*} or a combination of depletion, loss of quality, current threats and rarity gives a comparable status.



few trees or as larger patches. The 90 known occurrences of the TEC vary in size from about 0.3 ha up to 507 ha, with a mean size of about 33 ha (DBCA 2018b). They can occur as clumps or narrow linear stands (Black *et al.* 2010).

The Commonwealth Conservation Advice (DSEWPaC 2013) lists the key diagnostic characteristics of the TEC as follows:

- Distribution occurs within the Dampierland bioregion mostly in the Pindanland subregion DL2 (IBRA4).
- The ecological community is mainly restricted to the deep white or grey calcareous sands of the coastal Holocene dunes of the Dampier Peninsula.
- The ecological community mainly occurs within the swales and on the leeward side of the coastal dunes and occasionally on the crests of these dunes and other coastal landforms such as: beach fronts, sand-spit headlands and storm ridges with intertidal flats (Black *et al.* 2010).
- Outliers may occur on different substrates within the DL2 subregion, e.g. on pindan soil the ecological
 community may establish following dispersal of key species by frugivores and where these patches are
 buffered from moisture loss and fire.
- The overstorey (canopy) typically shows the following features:
 - The overstorey typically ranges from three to nine metres tall and may consist of trees, tall shrubs and/or climbers/vines.
 - The tree canopy composition is variable but the most common species are typically one or more of the taxa *Bauhinia cunninghammi* (jigal, joomoo), *Celtis philippensis* (goolnji), *Diospyros humilis* (ebony wood), *Exocarpos latifolius* (jarnba, mistletoe tree), *Grewia breviflora* (goolmi, currant/coffee fruit), *Mallotus nesophilus* (yellow ball flower), *Mimusops elengi* (joongoon, mamajen), *Sersalisia sericea* (mangarr), *Terminalia ferdinandiana* (gabiny, gubinge, kabiny) and *Terminalia petiolaris* (blackberry tree, marool, narwulu).
- The understorey shows the following features:
 - Shrub and small tree species when present include: Breynia cernua, Bridelia tomentosa, Caesalpinia major (goolyi), Croton habrophyllus (ankoolmarr), Dodonaea platyptera, snowball bush and Santalum lanceolatum.
 - The ground layer is generally sparse to absent but may contain a variety of herbaceous species depending on seasonal conditions, site characteristics and canopy density.
 - Native grass species are uncommon but may occur on the edges of vine thicket patches or in open groves. When present they typically include annual species (**Appendix E**) such as *Perotis* rara (comet grass) and *Setaria apiculata* (pigeon grass).
- Vines and creepers are often, but not always, present in the overstorey and/or understorey and when present include the following: crab's eye bean, *Adenia heterophylla* subsp. *australis*, *Capparis lasiantha* (ngoorla, bush caper), *Jacquemontia paniculata, Jasminum didymum, Tinospora smilacina* (oondal, snake vine) and *Tylophora cinerascens* (oyster-catcher bill).
- The following genera/species often present in other rainforest/vine thicket types in northern Australia, are typically absent or uncommon in the ecological community: Albizia lebbeck, Bombax ceiba, Cryptocarya cunninghamii, Elaeodendron melanocarpum, Ganophyllum falcatum, Vitex acuminata and Ziziphus quadrilocularis. The understorey of other northern vine thicket patches also contains shrub species that are absent from the ecological community, such as those from the genera Alectryon, Denhamia, Micromelum, Murraya, Strychnos, Trema and Wrightia.

Based on the information above, it is considered that the monsoon vine thicket TEC is represented within the MVT vegetation unit within the study area. The geographical location, landform and soils in this location, in reference to the key characteristics listed supports that the MVT vegetation represents the TEC. Although many



of the typical species listed in the Conservation Advice (DSEWPaC 2013) were not recorded within the MVT vegetation unit (besides *Grewia brevoflora*, dominant in the canopy), the full species list (**Appendix E**) reveals that nine of the 12 species recorded within the MVT vegetation unit within the study area are known to be supported by the monsoon vine thicket TEC. The Conservation Advice also confirms that the list of plant species present in the ecological community is indicative rather than comprehensive and that patches may not include all species on the lists or may include other species not listed (DSEWPaC 2013).

Condition Thresholds

Further to characterisation, there are also condition thresholds that apply to areas of nationally-significant ecological communities, in order for them to be considered representative of the respective TEC. In the case of the monsoon vine thickets TEC, the following condition thresholds apply (DSEWPaC 2013):

- 50% or more of the total cover of the canopy comprises perennial native species
- 50% or more of the total vegetation cover in the ground and mid layers comprises perennial native species.

These condition thresholds are considered to be met within the patch of vegetation unit MVT mapped within the study area.

TEC Patch

The size of the patch of monsoon vine thicket TEC mapped within the study area (area of vegetation unit MVT) is 0.37 ha. This patch is not considered to extend outside the area mapped within the study area, as no surrounding vine thicket vegetation in a continuous occurrence (separated only by minor interruptions) exists in the immediate vicinity.

Buffers

To assist in the preservation of the patch, it is recommended that where possible, a buffer zone of at least 50 m be maintained from the outer edge of the patch. The purpose of the buffer zone is to protect and manage the patch and to help avoid potential significant impacts to the ecological community. Changes in land-use within the buffer zone must not have a significant impact on the ecological community, but there are exemptions for continuing use (DSEWPaC 2013).

Threats to the TEC

The key threats to the ecological community are summarised below (DSEWPaC 2013):

- <u>Inappropriate fire regimes</u>. Fires are severely impacting the ecological community causing changes in species composition and patches to contract over time.
- <u>Invasive species</u>. Feral animals browse and damage native vegetation plus eat native or displace fauna. Weed species are replacing native species, changing vegetation structure and altering fire regimes causing patches to decline over time.
- <u>Clearance and disturbance</u>. This can further fragment or degrade remaining patches, increasing the risk of patches becoming more isolated and vulnerable to local extinction.
- <u>Altered hydrology</u>. Developments can impact on local microclimates, groundwater access and surface runoff changing hydrological input for vegetation.
- <u>Climate change</u>. Trends suggest that increased frequency and severity of weather events are likely to adversely affect the hydrological and fire regimes operating on the ecological community.



6. CONCLUSION AND RECOMMENDATIONS

The key findings, conclusions and recommendations arising from the flora and vegetation assessment within the study area are as follows:

- A total of 20 flora taxa, from 19 genera and 14 families were recorded during the reconnaissance survey, including 15 (80%) native species and five (20%) introduced (weed) species.
- None of the weed species recorded are listed as Declared Pest plants under the *Biosecurity and Agriculture Management Act 2007* (BAM Act), nor are any listed as Weeds of National Significance (WoNS).
- No Threatened flora protected under the BC Act or under the EPBC Act were recorded and no Priority flora were recorded.
- No recorded species exhibited an extension beyond their current documented range, in accordance
 with records of the Western Australian Herbarium (DBCA 2018a), besides Casuarina obesa, which is not
 naturally occurring, likely to have been planted. This occurrence is not considered a range-extension.
- Three intact vegetation units and two disturbed/planted areas were described and mapped from four relevés and various observation points throughout the study area.
- The vegetation of the study area ranges in condition from 'Very Good' to 'Completely Degraded', with most of the vegetation found to be in 'Degraded' condition.
- The regional vegetation/vegetation association of the study area, vegetation association 750 (Beard 1990), is represented by 99.56% of its pre-European extent and therefore, the vegetation of the study is not significant due to poor regional representation.
- It is considered that the monsoon vine thicket TEC is represented within the MVT vegetation unit within the study area, based on positive results in comparison to the key characteristics; and this occurrence of the TEC is also considered to meet condition thresholds.
- The patch of monsoon vine thicket TEC mapped within the study area totals 0.37 ha and this patch is considered to be confirmed to within the study area.
- The timing of the survey (early March, following the majority of the wet season) was considered suitable for a flora and vegetation assessment, although the preceding February and December recorded significantly lower than average rainfall and therefore, the flowering season in the region (March to June) has the potential to be poorer than usual. However, this is not expected to have influenced the characterisation of the monsoon vine thicket TEC within the study area.

Based on the findings of the study, the following recommendations are provided for consideration:

- Although it is understood that clearing is proposed as part of the Master Plan, where possible, or where
 native vegetation is to be retained, it is recommended that clearing of vegetation is minimised,
 including within vegetation units FD, HD and particularly MVT, which is considered to be a
 representation of the monsoon vine thicket TEC.
- Whilst the existing conditions within the study area and on the Cable Beach Foreshore do not provide a 50 m buffer, as preferred by the Conservation Advice (DSEWPaC 2013), it is recommended that future redevelopment aim to avoid or minimise further encroachment on the TEC vegetation from that which is currently in existence, which would be in accordance with exemptions for continuing use.



- It is recommended that management plans be prepared and implemented for both the design and construction phases of the redevelopment, as well as the ongoing operational and maintenance phases, including, but not limited to:
 - o Limiting clearing or other direct or indirect impacts on native vegetation, where possible
 - o Management measures that address the key threats to the monsoon vine thicket TEC, including:
 - an appropriate fire management plan that addresses risk management and rapid response
 - an appropriate weed management plan that addresses active control and avoidance of continued weed invasion into sensitive areas
 - appropriate drainage design with ongoing maintenance, to ensure that hydrological regimes are not altered
 - measures to ensure access to sensitive areas and subsequent impacts are excluded (e.g. signage and fencing, if appropriate).



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Appendix A - DBCA Naturemap Search Report



NatureMap Species Report

Created By Guest user on 13/02/2019

Current Names Only Yes
Core Datasets Only Yes

Method 'By Circle'

Centre 122° 12' 24" E,17° 56' 00" S

Buffer 5km

Group By Kingdom

Kingdom	Species	Records
Animalia Chromista Fungi Plantae Protozoa	613 5 10 412 1	12085 6 18 1091 1
TOTAL	1041	13201

Name ID Species Name

Naturalised Conservation Code ¹Endemic To Query Area

Animalia			
1.		??	
2.		Abudefduf bengalensis	
3.		Abudefduf sp.	
4.	24559	Acanthagenys rufogularis (Spiny-cheeked Honeyeater)	
5.		Acanthopagrus latus	
6.		Acanthopagrus palmaris	
7.		Acanthurus dussumieri	
8.		Acanthurus grammoptilus	
9.	25535	Accipiter cirrocephalus (Collared Sparrowhawk)	
10.	25536	Accipiter fasciatus (Brown Goshawk)	
11.	24283	Accipiter fasciatus subsp. didimus (Brown Goshawk)	
12.		Acentrogobius viridipunctatus	
13.	25755	Acrocephalus australis (Australian Reed Warbler)	
14.	41323	Actitis hypoleucos (Common Sandpiper)	IA
15.	25544	Aegotheles cristatus (Australian Owlet-nightjar)	
16.	25350	Aipysurus apraefrontalis (Short-nosed Seasnake)	Т
17.	25355	Aipysurus laevis (Olive Seasnake)	
18.	42369	Aipysurus mosaicus (Mosaic Seasnake)	
19.	25357	Aipysurus tenuis (Brown-lined Seasnake)	
20.		Alectis indica	
21.	42372	Amalosia rhombifer (Zigzag velvet gecko)	
22.		Amblyomma moreliae	
23.		Amniataba caudavittata	
24.	30831	Amphibolurus gilberti (Ta-ta, Gilbert's Dragon)	
25.		Amphiprion rubrocinctus	
26.	24310	Anas castanea (Chestnut Teal)	
27.	24312	Anas gracilis (Grey Teal)	
28.		Anas platyrhynchos subsp. domesticus	
29.	24316	Anas superciliosa (Pacific Black Duck)	
30.		Anguilla bicolor	
31.	47414	Anhinga novaehollandiae (Australasian Darter)	
32.	44632	Anilios diversus	
33.	25634	Anous stolidus (Common Noddy)	IA
34.	24505	Anous stolidus subsp. pileatus (Common Noddy)	IA
35.	24317	Anseranas semipalmata (Magpie Goose, Pied Goose)	
36.	25241	Antaresia stimsoni subsp. stimsoni (Stimson's Python)	
37.	24600	Anthus cervinus (Red-throated Pipit)	
38.		Apogon cookii	
39.		Apogon pallidofasciatus	
40.		Apogon rueppellii	
41.		Apogon sp.	
42.	24719	Aprosmictus erythropterus (Red-winged Parrot)	

Department of Parks and Wildlife





	Name ID	Species Name Natu	ralised Cons	ervation Code	¹ Endemic To Query Area
43.	25554	Apus pacificus (Fork-tailed Swift, Pacific Swift)		IA	Alou
44.		Apus pacificus subsp. pacificus (Fork-tailed Swift, Pacific Swift)		IA	
45.	24285	Aquila audax (Wedge-tailed Eagle)			
46.	24337	Ardea garzetta subsp. nigripes (Little Egret)			
47.	25558	Ardea ibis (Cattle Egret)			
48.	25559	Ardea intermedia (Intermediate Egret)			
49.	41324	Ardea modesta (great egret, white egret)			
50.	24340	Ardea novaehollandiae (White-faced Heron)			
51.	24341	Ardea pacifica (White-necked Heron)			
52.	24343	Ardea sacra subsp. sacra (Eastern Reef Egret, Eastern Reef Heron)			
53.	41328	Ardenna tenuirostris (Short-tailed Shearwater)		IA	
54.	24610	Ardeotis australis (Australian Bustard)			
55.	25736	Arenaria interpres (Ruddy Turnstone)		IA	
56.	24778	Arenaria interpres subsp. interpres (Ruddy Turnstone)		IA	
57.		Arius sp.			
58.		Arothron hispidus			
59.		Arothron manilensis			
60.		Arrhamphus sclerolepis			
61.		Artamus cinereus (Black-faced Woodswallow)			
62.		Artamus leucorynchus (White-breasted Woodswallow)			
63.	24356	Artamus personatus (Masked Woodswallow)			
64.		Arthrorhabdus paucispinus			
65.	25320	Aspidites melanocephalus (Black-headed Python)			
66.		Atherinomorus endrachtensis			
67.		Austracantha minax			
68.	24318	Aythya australis (Hardhead)			
69.		Backobourkia collina			
70.		Bathygobius fuscus			
71.		Batrachomoeus dahli			
72.		Batrachomoeus occidentalis			
73.		Blennodesmus scapularis			
74.	05004	Brachysomophis cirrocheilos			
75.		Brachyurophis roperi (Northern Shovel-nosed Snake)		1.0	
76.		Bulweria bulwerii (Bulwer's Petrel)		IA	
77.		Burhinus grallarius (Bush Stone-curlew)			
78. 79.		Butorides striata (Striated Heron, Mangrove Heron)			
79. 80.		Cacatua galerita (Sulphur-crested Cockatoo)			
81.		Cacatua roseicapilla subsp. roseicapilla (Galah) Cacatua sanguinea (Little Corella)			
82.		Cacatua sanguinea (Little Corella) Cacatua sanguinea subsp. sanguinea (Little Corella)			
83.		Cacamantis pallidus (Pallid Cuckoo)			
84.		Cacomantis variolosus (Brush Cuckoo)			
85.		Calidris acuminata (Sharp-tailed Sandpiper)		IA	
86.		Calidris alba (Sanderling)		IA	
87.		Calidris anda (Sanderling) Calidris canutus (Red Knot, knot)		IA IA	
88.		Calidris canutus (Ned Knot, Knot) Calidris canutus subsp. rogersi (Red Knot (north-eastern Siberia))		-	
89.		Calidris candidas sabsp. regers (New Wild (Worth-eastern Siberia)) Calidris ferruginea (Curlew Sandpiper)		T	
90.		Calidris melanotos (Pectoral Sandpiper)		IA	
91.		Calidris ruficollis (Red-necked Stint)		IA	
92.		Calidris subminuta (Long-toed Stint)		IA	
93.		Calidris tenuirostris (Great Knot)		T	
94.		Calonectris leucomelas (Streaked Shearwater)		IA	
95.		Calyptorhynchus banksii (Red-tailed Black-Cockatoo)			
96.		Caranx bucculentus			
97.		Caranx ignobilis			
98.		Caranx sexfasciatus			
99.		Caranx sp.			
100.	25015	Carlia munda (Shaded-litter Rainbow Skink)			
101.		Carlia rufilatus (Red-sided Rainbow Skink)			
102.		Centriscus scutatus			
103.		Centrogenys vaigiensis			
104.	25600	Centropus phasianinus (Pheasant Coucal)			
105.		Centropus phasianinus subsp. phasianinus (Pheasant Coucal)			
106.		Cephalopholis boenak			
107.	24188	Chalinolobus nigrogriseus (Hoary Wattled Bat)			
108.		Chanos chanos			
109.	25574	Charadrius dubius (Little Ringed Plover)		IA	
110.		Charadrius leschenaultii (Greater Sand Plover)		Т	
111.		Charadrius leschenaultii subsp. leschenaultii (Greater Sand Plover (Mongolian))		Т	
112.	25576	Charadrius mongolus (Lesser Sand Plover)		Т	
		NatureMan is a collaborative project of the Department of Parks and Wildlife and the Western Australia	tralian Museum	Departmen Parks and	of wildlife museu



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115. 2017. Characteria muscles (Characteria Manageria) 116. 2017. Characteria muscles (Characteria Manageria) 117. Characteria muscles (Characteria Manageria) 118. 2018. Characteria muscles (Characteria Manageria) 119. Characteria Manageria (Characteria Manageria) 119. Characteria Manageria (Characteria Manageria) 120. Characteria Manageria (Characteria Manageria) 121. Characteria Manageria (Characteria Manageria) 122. Characteria Manageria (Characteria Manageria) 123. Characteria Manageria (Characteria Manageria) 126. Characteria Manageria (Characteria Manageria) 127. Characteria Manageria (Characteria Manageria) 128. Characteria Manageria (Characteria Manageria) 129. 2441. Characteria Manageria Manageria (Characteria Manageria) 130. 2442. Characteria Manageria (Characteria Manageria) 131. 2442. Characteria Manageria (Characteria Manageria) 132. 2443. Characteria Manageria (Characteria Manageria) 133. 2445. Characteria Manageria (Characteria Manageria) 134. 2455. Characteria Manageria (Characteria Manageria) 135. 2448. Characteria Manageria (Characteria Manageria) 136. 2448. Characteria Manageria (Characteria Manageria) 137. 2457. Characteria Manageria (Characteria Manageria) 138. 2448. Characteria Manageria (Characteria Manageria) 139. 2448. Characteria Manageria (Characteria Manageria) 130. 2449. Characteria Manageria (Characteria Manageria) 131. 2448. Characteria Manageria (Characteria Manageria) 132. 2459. Characteria Manageria (Characteria Manageria) 133. 2459. Characteria Manageria (Characteria Manageria) 134. 2559. Characteria Manageria (Characteria Manageria) 135. 2459. Characteria Manageria (Characteria Manageria) 136. 2471. Characteria Manageria (Characteria Manageria) 137. 2471. Characteria Manageria (Characteria Manageria) 138. 2471. Characteria Manageria (Characteria Manageria) 148. 2559. Characteria Manageria (Characteria Manageria) 149. 2569. Characteria Manageria (Characteria Manageria) 150. 2471. Characteria Manageria (Characteria Manageria) 1512. 2472. Characteria Manageria (Characteria Manag	113.	24375	Charadrius mongolus subsp. mongolus (Lesser Sand Plover)		T	Alou
116. Charton morginals						
117. Challenon masker		24378	·		IA	
118. 2035 Chatenium imprises (Green Furtrix) T			-			
110. Challespotent processors 120. Chillespotents design processors 121. Chillespotents design processors 122. 41832 Childrengines design profit enclosed control 123. 41832 Childrenia Recognition (Print enclosed Control 124. 41832 Childrenia Recognition (Print enclosed Control 125. Chrosostors page 126. Chrosostors page 127. Chrosostors page 128. Chrosostors page 129. 2443 Chrosoptors processors 129. 2443 Chrosoptors page chrosostors 129. 2444 Chrosoptors page chrosostors 129. 2444 Chrosoptors page chrosostors 129. 2444 Chrosoptors page chrosostors 130. 2444 Chrosoptors page chrosostors 131. 2445 Chrosoptors page chrosoptors 132. 2456 Chrosoptors page chrosoptors 133. 2456 Chrosoptors page chrosoptors 134. 2576 Chrosoptors page chrosoptors 134. 2576 Chrosoptors page chrosoptors 135. 2457 Chrosoptors page chrosoptors 136. 2477 Chrosoptors page chrosoptors 137. 2576 Chrosoptors page page chrosoptors 138. 2480 Chrosoptors page page chrosoptors 139. 2491 Chrosoptors page page page page page page page page		25336			т	
121.						
122. 24683 Collegative Supplement (Politic International Control	120.		Chiloscyllium punctatum			
120. 14132 Colifornies Biocopherus (Wildermanged Black Tern, white-winged term) (A 124. Chemodra system provides 126. Chemodra system provides 127. Chemodra system selvenis 128. 24433 Chrysococcya minusible audies part intensible audies 129. 24433 Chrysococcya minusible audies part minusible audies (Particular Survey Coloro) 130. 24443 Chrysococcya minusible audies particular (Particular Survey Coloro) 131. 24286 Christ approximate (Susan phinose) 132. 24296 Christ approximate (Susan phinose) 133. 24296 Christ approximate (Susan phinose) 134. 24796 Coloro approximate (Susan phinose) 135. 24296 Christ approximate (Susan phinose) 136. 24296 Christ approximate (Susan phinose) 137. 24296 Christ approximate (Susan phinose) 138. 24296 Christ approximate (Susan phinose) 139. 24296 Christ approximate (Susan phinose) 139. 24296 Christ approximate (Susan phinose) 140. 24296 Christ approximate (Susan phinose) 141. 24296 Christ approximate (Susan phinose) 142. 25296 Christ approximate (Susan phinose) 143. 24296 Christ approximate (Susan phinose) 144. 24496 Christ approximate (Susan phinose) 145. 25296 Christ approximate (Susan phinose) 146. 24496 Christ approximate (Susan phinose) 147. 24496 Christ approximate (Susan phinose) 148. 24496 Christ approximate (Susan phinose) 149. 24496 Christ approximate (Susan phinose) 140. 24496 Christ approximate (Susan phinose) 141. 24416 Christ approximate (Susan phinose) 142. 24416 Christ approximate (Susan phinose) 143. 24416 Christ approximate (Susan phinose) 144. 24416 Christ approximate (Susan phinose) 145. 24416 Christ approximate (Susan phinose) 146. 24416 Christ approximate (Susan phinose) 147. 24416 Christ approximate (Susan phinose) 148. 24416 Christ approximate (Susan phinose) 149. 24416 Christ approximate (Susan phinose) 149. 24416 Christ approximate (S	121.		Chirocentrus dorab			
174. Chromothon cyanicolar conventionable						
126. Chromospopula normalizationalise		41332			IA	
126. Chronicosphalus rounderblunding						
128.						
120. 24433 Chrysopocopy mituellius subsp. minutilius (Little Britzer Cucknon)	127.		Chromileptes altivelis			
130. 24436 Chronic programmer (Samper Senter Cuckons)						
131						
13.2 24/280 Concurs assamlia (Spotlant Harmer)						
133. 24565 Classames pectorals (Entire herantic Christoria)						
135. 24815 Calcius at alls subse, assis (soliden-handed Calcius)						
138.	134.	25756	Cisticola exilis (Golden-headed Cisticola)			
137. 25975 Collurisincia harmonica (Grey Shrifte-thrush) 138. Congregacian subducions 140. Corregacian subducions 141. 24566 Corceppalia indegularis (Pulnus-throated Honeyeater) 142. 25568 Concision novembrillarisina (Bilant-fleed Culcido-shrifte) 143. 25569 Concision novembrillarisina (Bilant-fleed Culcido-shrifte) 144. 24416 Corvus benneti (Little Corvi) 146. 24416 Corvus benneti (Little Corvi) 147. 24569 Concision subducion (Bilant-fleed Culcido-shrifte) 148. 24416 Corvus toma subgu. concibe (Westerin Crow) 148. 24418 Corvus orus subgu. concibe (Westerin Crow) 149. 25711 Columnia palephora (Brown Cuall) 150. 24612 Columnia palephora (Brown Cuall) 151. 24612 Columnia palephora (Brown Cuall) 152. 25556 Concisions Ribber (Australian Magnie) 153. 25556 Concisions Ribber (Australian Magnie) 154. 4238 Corpoblepharus subgu. contria (Brown Cuall) 156. 3089 Coppidolepharus subgularis (Brown Cuall) 157. 24617 Columnia palephora (Brown Cuall) 158. 24628 Corpoblepharus subgularis (Brown Cuall) 159. 25648 Concisions Ribber (Australian Magnie) 159. 25648 Columnia Recipia subga. Inolepha (Created Dragon, Military Dragon) 159. 25648 Columnia Recipia subga. Inolepha (Created Dragon, Military Dragon) 159. 25648 Columnia Recipia subga. Inolepha (Created Dragon, Military Dragon) 159. 25648 Columnia Recipia subga. Inolepha (Created Dragon, Military Dragon) 159. 25648 Columnia Recipia subga. Inolepha (Created Dragon, Military Dragon) 150. 25740 Columnia Recipia subga. Inolepha (Created Dragon, Military Dragon) 150. 25751 Columnia Recipia subga. Inolepha (Created Dragon, Military Dragon) 150. 25648 Columnia Recipia subga. Inolepha (Created Dragon, Military Dragon) 150. 25648 Columnia Recipia subga. Inolepha (Created Dragon, Military Dragon) 150. 25751 Columnia Recipia subga. Inolepha (Created Dragon, Military Dragon) 150. 25751 Columnia Recipia subga. Inolepha (Created Dragon, Military Dragon) 150. 25751 Columnia Recipia subga. Inolepha (Created Dragon, Military Dragon) 150. 25751 Columnia Recipia Subga. Inolepha (Created Dragon,	135.					
138						
198. Congregioles subducions 141. 24586 Conceptagioles subducions 141. 24586 Conceptagioles subducions 142. 25586 Correction provincial principal (Suck-Inceed Cucktor-strike) 143. 25586 Correction provincial (Suck-Inceed Cucktor-strike) 144. 24416 Corvus bennetit (Little Crow) 146. 24418 Corvus orun subsp. ceciline (Western Crow) 147. Compositional Experiment (Terminal Crow) 148. 24417 Columity personalis (Subble Quali) 149. 25701 Columity personalis (Subble Quali) 150. 24627 Columity provincial principal (Subble Quali) 151. 24420 Creations principalism (Subble Quali) 151. 24420 Creations principalism (Subble Quali) 152. 25595 Creations beform (Australian Magne) 153. 25596 Creations beform (Australian Magne) 154. 42438 Cryptoblephana suber 155. 30890 Creations torquatus (Grey Butcherbrid) 156. 30891 Cryptoblephana suber 157. 24486 Clenophonau ruchalis (Central Netted Dragon, Military Dragon) 158. 24882 Clenophonau ruchalis (Central Netted Dragon) 159. 25946 Clenophonau ruchalis (Central Netted Dragon) 160. 25973 Cennotia assanlis (Pook Clenotius) 161. 47491 Cuclus explains (Central Cucktor) 162. 25371 Cyclorana australis (Central Netted Dragon) 163. 25974 Cyclorana australis (Central Netted Dragon) 164. Cyclorana australis (Central Netted Dragon) 165. 24982 Clenophonau inclination (Central Cucktor) 166. Cymbologiaus sp. 177. 24967 Decolum inclination (Central Cucktor) 178. 24982 Cymbologiaus (Central Cucktor) 179. 24982 Cymbologiaus sp. 179. 24982 Cymbologiaus sp. 179. 24983 Cymbologiaus sp. 179. 24983 Cymbologiaus sp. 179. 24983 Cymbologiaus sp. 179. 24984 Cheminiciaus australia (Central Nettern) 179. 24984 Cheminiciaus australia (Central Nettern) 170. 24985 Cheminiciaus australia (Central Nettern) 171. Dampierosa daruma 172. 24985 Cheminiciaus augustrapes (Central Nettern) 175. 24985 Demonstration augustralia (Central Nettern) 176. 24985 Demonstration augustralia (Central Nettern) 177. 24985 Demonstration augustralia (Central Nettern) 178. 24980 Demonstration augustralia (Central Nettern) 179. 24985 Demonstra				V		
140. Cangrogadius subclanens		24399		ĭ		
141. 24566 Conceptain and popularia (Raffous-stroated Honeyseater) 142 2558 Conceina popularia (Raffous-stroated Honeyseater) 143 25566 Conceina popularia (White-beilied Cuckoo-shrike, Little Cuckoo-shrike) 144 24416 Convus berneret (Little Convi) 146 24593 Convus our (Tonesian Conv) 147 Costrophasia beahme 148 2457 Coturnity poetorates (Stubble Qual) 149 25701 Coturnity poetorates (Stubble Qual) 150 24672 Construity policiphora (Store Convus) 151 24420 Construity policiphora (Store Convus) 152 25559 Cracticus nigrogularia (Rowa Qual) 153 25559 Cracticus nigrogularia (Rowa Qual) 154 24572 Coturnity policiphora (Store Convus) 155 30500 Cracticus nigrogularia (Rowa Qual) 156 25559 Cracticus nigrogularia (Rowa Qual) 157 24500 Cracticus nigrogularia (Rowa Qual) 158 25500 Cracticus nigrogularia (Rowa Qual) 159 25500 Cracticus nigrogularia (Rowa Qual) 150 24572 Coturnity policiphora (Rowa Qual) 150 25500 Cracticus nigrogularia (Rowa Qual) 151 24500 Cracticus nigrogularia (Rowa Qual) 157 24500 Cracticus nigrogularia (Rowa Qual) 158 25500 Cracticus nigrogularia (Rowa Qual) 159 25500 Cracticus nigrogularia (Rowa Qual) 150 25500 Cracticus nigrogularia (Rowa Qual) 150 25500 Cracticus nigrogularia (Rowa Qual) 150 25500 Cracticus nigrogularia (Rowa Qual) 151 24500 Ceterophora sucheria (Rowa Qual) 152 25500 Ceterophora sucheria (Rowa Qual) 153 25504 Ceterophora sucheria (Control) 154 25500 Ceterophora sucheria (Control) 155 25504 Ceterophora sucheria (Control) 156 25507 Ceterophora sucheria (Control) 157 25507 Ceterophora sucheria (Control) 158 25508 Ceterophora sucheria (Control) 159 25509 Ceterophora sucheria (Control) 150 25507 Ceterophora sucheria (Control) 151 25500 Ceterophora sucheria (Control) 152 25507 Cyclorana austratia (Glant Frog) 153 25504 Cyclorana austratia (Glant Frog) 156 25507 Cyclorana austratia (Glant Frog) 157 25500 Ceterophora polipos (Control) 158 25500 Ceterophora polipos (Control) 159 25500 Ceterophora polipos (Control) 150 25500 Ceterophora polipos (Control) 151 25500 Ceterophora polipos (Control)						
143. 25596 Concision paquentisis (White-bellied Cuckoo-shrike). Little Cuckoo-shrike) 144. 24416 Connus bernetti (Little Crow) 146. 24416 Connus drow (Tornesian Crow) 147. Castomy-basis beahrem 148. 24617 Cottumic pactorials (Stubble Quall) 149. 25701 Costumic ypositophora usbap, cervina (Brown Quall) 150. 24672 Cottumic ypositophora (Brown Quall) 151. 24467 Crottumic ypositophora (Brown Quall) 151. 24467 Crottumic ypositophora (Brown Quall) 152. 25596 Cracticus shora (Justinal Magne) 153. 25596 Cracticus shora (Justinal Magne) 153. 25596 Cracticus thora (Justinal Magne) 154. 2438 Cryptoblephanus nuber 156. 30891 Cryptoblephanus nuber 157. 24876 Ctempohar ymritise 158. 24882 Clempoharus inchein (Lustinal Holland) 159. 24876 Ctempoharus inchein subap, isolepia (Crested Dragon, Military Dragon) 158. 24882 Ctempoharus inchein subap, isolepia (Crested Dragon, Military Dragon) 159. 25048 Ctempoharus inchein subap, isolepia (Crested Dragon, Military Dragon) 160. 25073 Clenotus savallis (Rock Ctenotus) 161. 47919 Cuculus opetais (Criental Netted Dragon) 163. 25374 Cyclorana australis (Giant Trog) 163. 25374 Cyclorana Roriginas (Long-footed Frog) 164. 24322 Cyprus attatus (Block Swarn) 166. Cyclosac carebides 167. 24322 Cyprus attatus (Block Swarn) 168. Cypsolurus sp. 179. 24340 Dendrosphalus nenatophthalmus 170. 24340 Dendrosphalus nenatophthalmus 171. Danpierosa darum 172. 24033 Dasyrus hallucatus (Northern Quoli) 173. 25040 Delma incia 174. 24325 Dendrosyge agvini (Flunde Wilkelling Duck, Chestnut Whistling Duck) 175. 24342 Dendrosyge agvini (Flunde Wilkelling Duck) 177. 25070 Dicasum inrudinacoum (Midstintophiri) 178. 24860 Depriphora pindan (Findan Dragon) 179. Drapane punctata 180. 24470 Dramais novashollandiae (Emu) 181. Drambus sp. 182. Drambus triangularis		24566				
144. 24416 Corvus bennetti (Little Crow)	142.	25568	Coracina novaehollandiae (Black-faced Cuckoo-shrike)			
145. 25933 Corvus orru subsp. cecilia (Western Crow) 146. 2418 Corvus orru subsp. cecilia (Western Crow) 147. Commy popularia Subarina 148. 24671 Columix pestionalis (Subble Quali) 149. 24772 Columix psilophora Subsp. cenvina (Erown Quali) 151. 24422 Cracticus inforgularis (Pleat Butcherbird) 152. 25556 Cracticus torquatus (Grey Butcherbird) 153. 25566 Cracticus torquatus (Grey Butcherbird) 154. 42333 Cryptoblephanas rather 155. 30890 Cryptoblephanas ruber 156. 30891 Cryptoblephanas ruber 157. 24876 Clempchorus isolepis subsp. isolepis (Crested Dragon, Military Dragon) 158. 24892 Clenophorus isolepis subsp. isolepis (Crested Dragon) 159. 25648 Clenophorus isolepis subsp. isolepis (Crested Dragon) 160. 25073 Clenotus saxalisi (Rock Clenotus) 161. 47479 Cyclus in formatus 162. 25371 Oycidora australis (Glant Frog) 163. 2537	143.	25569	Coracina papuensis (White-bellied Cuckoo-shrike, Little Cuckoo-shrike)			
148. 2418 Corvus orru subsp. cecilee (Western Crow) 147. Cosmophasts bealvrae 148. 24671 Cotumix pestonials (Subble Qual) 149. 25701 Cotumix psisiphora (Brown Qual) 150. 24420 Cracticus inforce (Australian Magnie) 151. 24420 Cracticus inforce (Australian Magnie) 152. 25555 Cracticus troquatus (Greg Butcherbrid) 153. 25566 Cracticus troquatus (Greg Butcherbrid) 154. 4233 Cryptobleipharus netulicus 155. 30800 Cryptobleipharus sythos 156. 30810 Cryptobleipharus sythos 157. 24875 Clenchyorus inchails (Contral Netword Dragon) 158. 24882 Ctenophorus inchails (Contral Netword Dragon) 159. 25648 Ctenophorus inchails (Contral Netword Dragon) 160. 25073 Ctenotus saxatilis (Rock Ctenotus) 161. 47919 Guculus optatus (Universal Cuckoo) IA 162. 25371 Oydorana australis (Glant Frog) 163. 24322 Oymus atratus (Black Swan) 164. Oynosa camelorlas 165. 24322 Oymus atratus (Slant Frog) 170. 2430 Decko leachii (Blue-winged Kockaburra) <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>						
147. Cosmophasis baehrae 148. 24671 Cotumic pectoralis (Stubble Quail) 149. 24571 Cotumic yasilophora subsp. cervina (Brown Quail) 151. 24420 Cracticus thoca (Rustralian Magpie) 152. 25595 Cracticus thoca (Rustralian Magpie) 153. 25596 Cracticus torquatus (Grey Butcherbrd) 154. 4238 Cryptoblepharus ruber 155. 30890 Cryptoblepharus ruber 156. 30891 Cryptoblepharus ruber 157. 24876 Centrophorus isolepis subsp. isolepis (Crested Dragon, Military Dragon) 158. 24882 Cenophorus isolepis subsp. isolepis (Crested Dragon, Military Dragon) 159. 25048 Centrophorus isolepis subsp. isolepis (Crested Dragon, Military Dragon) 159. 25048 Centrophorus isolepis subsp. isolepis (Crested Dragon, Military Dragon) 159. 25048 Centrophorus isolepis subsp. isolepis (Crested Dragon, Military Dragon) 161. 47919 Cuclus substance (Crested Dragon) 162. 25073 Cycloral substance (Great Dual Nation) 163. 25374						
148. 24671 Cotumix pectoralis (Stubble Quali) 149. 25701 Cotumix psiliphora (Brown Quali) 150. 24672 Cotumix psiliphora (Brown Quali) 151. 24420 Cracticus pringupularis (Pied Butchethird) 152. 25595 Cracticus thicen (Natarilan Magnie) 153. 25596 Cracticus totraputus (Grey Butchethird) 154. 4233 Cryptoblepharus metallicus 155. 30890 Cryptoblepharus pythros 156. 30891 Cryptoblepharus pythros 157. 24876 Ctenophorus inclepia subsp. Isolepia (Crested Dragon, Military Dragon) 158. 24882 Ctenophorus nuchalis (Central Netted Dragon, Military Dragon) 159. 25048 Ctenophorus nuchalis (Central Netted Dragon, Military Dragon) 150. 25073 Ctenophorus savalitis (Central Netted Dragon) 161. 47919 Cuculus opdatus (Oriental Cuckoo) 162. 25371 Cyclorana australis (Gant Frog) 163. 25374 Cyclorana indigines (Long-footed Frog) 164. Cyclosa camelodes 165. Cymbacephalus nematophthalmus 167. Cymoglossus sp. 168. Cymbacephalus nematophthalmus 167. Cymoglossus sp. 168. Cymbacephalus nematophthalmus 169. 25437 Dacolo leachii (Blue-winged Kookaburra) 170. 24304 Dacolo leachii (Blue-winged Kookaburra) 171. Dampierosa daruma 172. 24093 Dasyruns hallucatus (Northern Quoli) 173. 24094 Dendrocygna arcuata (Wandering Whistling Duck, Chestnut Whistling Duck) 174. 42390 Demansia angusticops 175. 24324 Dendrocygna arcuata (Wandering Whistling Duck, Chestnut Whistling Duck) 176. 24325 Dendrocygna arcuata (Wandering Whistling Duck, Chestnut Whistling Duck) 177. 25607 Deaeum hirundraneum (Mistletoebird) 178. Derpane punctata 179. Drepane punctata 170. Cyclosus and (Pirlan Dragon) 171. Drepane punctata 172. 24095 Deproprior prindan (Pirlan Dragon) 173. Drepane punctata 174. Dromaius novaehollandiae (Emu) 175. Drombus triangularis		24410				
150. 24672 Cotumix ypsilophora subsp. cervina (Brown Quali) 151. 24420 Cracticus integropularis (Pied Butcherbird) 152. 25595 Cracticus tottera (Institute Indianal Sections) 153. 25596 Cracticus totrupatus (Grey Butcherbird) 154. 42383 Oryptolepharus metallicus 155. 30980 Oryptolepharus tythos 157. 24876 Clenophorus siolepis subsp. isolepis (Crested Dragon, Military Dragon) 158. 24882 Clenophorus suchalis (Central Netted Dragon) 159. 25048 Clenotus inormatus 160. 25573 Clenotus inormatus 161. 47919 Cuculus optatus (Oriental Cuckon) IA 162. 25371 Cyclorana longiqes (Long-footed Frog) IA 163. 25374 Cyclorana longiqes (Long-footed Frog) IA 164. Cytosa camelodes IA 165. 24322 Cygrus afratus (Black Swan) IA 166. Cytosa camelodes IA 167. Cyroglossus sp. IA 168.		24671				
151. 24420 Cracticus nigrogularis (Pied Butcherbird) 152. 25595 Cracticus tibicen (Australian Magnie) 153. 25596 Cracticus toriquatus (Girey Butcherbird) 154. 42333 Cryptoblepharus metallicus 155. 30890 Cryptoblepharus nutro 156. 30891 Cryptoblepharus nutro 157. 24876 Ctenophorus isolepis subsp. isolepis (Crested Dragon, Military Dragon) 158. 24882 Ctenophorus nuchalis (Central Netted Dragon) 159. 25048 Ctenophorus nuchalis (Central Netted Dragon) 159. 25048 Ctenotus saxadilis (Rock Ctenotus) 160. 25073 Ctenotus saxadilis (Rock Ctenotus) 161. 25371 Cyclorana australis (Giant Frog) 163. 25374 Cyclorana inoripies (Long-footed Frog) 164. Cyclosa camelodes 165. 24322 Cygnus attatus (Glack Swan) 166. Cymbacophalus nematophthalmus 1677. Cymoglossus sp. 168. Cymbacophalus nematophthalmus 1677. Cymoglossus sp. 168. Cypselurus sp. 169. 25547 Dacelo leachii (Blue-winged Kookaburra) 170. 24304 Dacelo leachii (Blue-winged Kookaburra) 171. Dampierosa daruma 172. 24093 Dasyruns hallucatus (Northern Quall) 173. 25004 Delma tincta 174. 42390 Demansia angusticeps 175. 24332 Dendrocygna arcuata (Wandering Whistling Duck, Chestrut Whistling Duck) 176. 24325 Dendrocygna arcuata (Plonda Dragon) 1779. Drombus sp. 1780. 24490 Dromansia angusticeps 1790. Prepane punctata 1791. 24900 Drepane punctata 1792. 24907 Dromansia snapusticeps 1793. 24340 Dromansia angusticeps 1794. 24390 Dromansia angusticeps 1795. 24342 Dendrocygna arcuata (Wandering Whistling Duck, Chestrut Whistling Duck) 1796. 24390 Dromansia angusticeps 1797. 25607 Dicaeum himudinaceum (Mistelicobird) 1798. Drombus sp. 1799. Drombus triangularis	149.	25701	Coturnix ypsilophora (Brown Quail)			
152. 25595 Cracticus tibicen (Australian Magpie) 153. 25596 Cracticus torquatus (Grey Butcherbird) 154. 42383 Cyptoblepharus ruber 155. 30890 Cryptoblepharus ruber 157. 24876 Clenophorus isologis subps. isolepis (Crested Dragon, Military Dragon) 158. 24882 Clenophorus nuchalis (Central Netted Dragon) 159. 25048 Clenotus inomatus 160. 25973 (Icnotus inomatus 161. 47919 Cuculus optatus (Oriental Cuckoo) 161. 47919 Cuculus optatus (Oriental Cuckoo) 163. 25371 Cyclorana longiese Long-fooled Frog) 164. Cyclorana longiese Long-fooled Frog) 165. 24322 Cygnus atratus (Black Swan) 166. Cymbacephalus nematophthalmus 167. Cynoplossus sp. 168. Cypselurus sp. 169. 25547 Daealo leachii (Blue-winged Kookaburra) 170. 2430 Daealo leachii (Blue-winged Kookaburra) 171. Dampierosa daruma Dampierosa darum	150.	24672	Coturnix ypsilophora subsp. cervina (Brown Quail)			
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179. Drepane punctata 180. 24470 Dromaius novaehollandiae (Emu) 181. Drombus sp. 182. Drombus triangularis	177.	25607	Dicaeum hirundinaceum (Mistletoebird)			
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181. Drombus sp. 182. Drombus triangularis		04470				
182. Drombus triangularis		244/0				
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	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
183.		Ducula bicolor (Pied Imperial Pigeon)			
184.	24084	Dugong dugon (Dugong)		S	
185.		Echeneis naucrates			
186. 187.		Egretta garzetta Egretta novaehollandiae			
188.		Elanus axillaris			
189.	24290	Elanus caeruleus subsp. axillaris (Australian Black-shouldered Kite)			
190.	24291	Elanus scriptus (Letter-winged Kite)		P4	
191.		Elates ransonnetii			
192.		Eleutheronema tetradactylum			
193.		Elops hawaiensis			
194.		Elseyornis melanops (Black-fronted Dotterel)			
195. 196.	24031	Emblema pictum (Painted Finch) Enneapterygius gracilis			
197.		Enneapterygius Iarsonae			
198.		Eolophus roseicapillus			
199.	25362	Ephalophis greyae			
200.	25578	Ephippiorhynchus asiaticus (Black-necked Stork)			
201.		Epinephelus areolatus			
202.		Epinephelus coioides			
203.		Epinephelus corallicola			
204.		Epinephelus fasciatus			
205.		Epinephelus homosinensis (invalid) Epinephelus malabaricus			
206. 207.		Epinephelus ongus?			Υ
208.		Epinephelus quoyanus			·
209.		Epinephelus sp.			
210.	24569	Epthianura crocea (Yellow Chat)			
211.	24570	Epthianura tricolor (Crimson Chat)			
212.	42404	Eremiascincus isolepis			
213.	25342	Eretmochelys imbricata subsp. bissa (Hawksbill Turtle)		T	
214.		Eriophora biapicata			
215.		Erythrogonys cinctus (Red-kneed Dotterel)		D.4	
216. 217.		Erythrura gouldiae (Gouldian Finch) Esacus magnirostris (Beach Stone-curlew, Beach Thick-knee)		P4	
218.		Eurostopodus argus (Spotted Nightjar)			
219.		Eurystomus orientalis (Dollarbird)			
220.	24415	Eurystomus orientalis subsp. pacificus (Dollarbird)			
221.		Eviota queenslandica			
222.	25621	Falco berigora (Brown Falcon)			
223.		Falco berigora subsp. berigora (Brown Falcon)			
224.		Falco cenchroides (Australian Kestrel, Nankeen Kestrel)			
225. 226.		Falco cenchroides subsp. cenchroides (Australian Kestrel, Nankeen Kestrel)		Т	
227.		Falco hypoleucos (Grey Falcon) Falco longipennis (Australian Hobby)		'	
228.		Falco longipennis subsp. longipennis (Australian Hobby)			
229.		Falco peregrinus (Peregrine Falcon)		S	
230.	24041	Felis catus (Cat)	Υ		
231.		Fistularia petimba			
232.		Fordonia leucobalia (White-bellied Mangrove Snake)			
233.		Fregata ariel (Lesser Frigatebird)		IA	
234. 235.		Fregata minor (great frigatebird, Greater Frigatebird)		IA	
235.		Fulica atra (Eurasian Coot) Gallinago megala (Swinhoe's Snipe)		IA	
237.		Gallinago stenura (Pin-tailed Snipe)		IA IA	
238.		Gallirallus philippensis (Buff-banded Rail)			
239.		Gallirallus philippensis subsp. mellori (Buff-banded Rail)			
240.	42314	Gavicalis virescens (Singing Honeyeater)			
241.	24952	Gehyra australis			
242.	0/	Gehyra kimberleyi			
243.		Gehyra pilbara			
244. 245.		Gehyra variegata Gelochelidon nilotica (Gull-billed Tern)		IA	
245.		Geopelia cuneata (Diamond Dove)		IA	
247.		Geopelia humeralis (Bar-shouldered Dove)			
248.		Geopelia striata (Zebra Dove)			
249.		Geopelia striata subsp. placida (Peaceful Dove)			
250.	24404	Geophaps plumifera (Spinifex Pigeon)			
251.		Gerres sp.			
252.		Gerres subfasciatus			
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Name ID	Species Name Naturalised	Conservation Code	¹ Endemic To Query Area
253. 25530	Gerygone fusca (Western Gerygone)		
254. 25531	Gerygone levigaster (Mangrove Gerygone)		
255. 24273	Gerygone levigaster subsp. levigaster (Mangrove Gerygone)		
	Gerygone tenebrosa (Dusky Gerygone)		
257. 24481	Glareola maldivarum (Oriental Pratincole)	IA	
	Grallina cyanoleuca (Magpie-lark)		
	Grus rubicunda (Brolga)		
260.	Gymnothorax favagineus		
261.	Gymnothorax pseudothyrsoideus		
262.	Gymnothorax undulatus		
	Haematopus fuliginosus (Sooty Oystercatcher)		
	Haematopus longirostris (Pied Oystercatcher)		
	Haliaeetus leucogaster (White-bellied Sea-Eagle)		
	Haliastur indus (Brahminy Kite)		
	Haliastur indus subsp. girrenera (Brahminy Kite)		
	Haliastur sphenurus (Whistling Kite)		
269.	Halichoeres nigrescens		
270.	Halophryne diemensis		
271.	Halophryne ocellatus		
272. 24296	Hamirostra isura (Square-tailed Kite)		
	Hamirostra melanosternon (Black-breasted Buzzard)		
274.	Hapalogenys kishinouyei		
275. 25232	Hemidactylus frenatus (Asian House Gecko)		
276.	Hemiscyllium trispeculare		
277.	Herklotsichthys blackburni		
	Heteronotia binoei (Bynoe's Gecko)		
279.	Heteropoda renibulbis		
280. 47965	Hieraaetus morphnoides (Little Eagle)		
281. 25734	Himantopus himantopus (Black-winged Stilt)		
282. 24775	Himantopus himantopus subsp. leucocephalus (Black-winged Stilt)		
283.	Himantura uarnak		
284.	Hippichthys gazella (invalid)		Υ
285.	Hippichthys penicillus		
286.	Hippocampus angustus		
287.	Hippocampus sp.		
288. 24491	Hirundo neoxena (Welcome Swallow)		
289. 25630	Hirundo rustica (Barn Swallow)	IA	
290.	Hogna crispipes		
291. 25363	Hydrelaps darwiniensis		
292. 44656	Hydrophis major (Olive-headed seasnake, greater seasnake)		
293. 43369	Hydrophis peronii (Spiny-headed Seasnake)		
294. 43385	Hydrophis stokesii (Stoke's Seasnake, Sea Snake)		
295. 48587	Hydroprogne caspia (Caspian Tern)	IA	
296.	Ichthyscopus spinosus		
297.	Isometrus maculatus		Υ
298.	Istigobius diadema		
299.	Istigobius ornatus		
300.	Istigobius? sp.		
301.	Johnius amblycephalus		
302.	Labracinus lineatus		
303.	Lactoria cornuta		
304. 24367	Lalage tricolor (White-winged Triller)		
305. 30851	Larus fuscus (Lesser Black-backed Gull, Baltic Gull)		Υ
306. 24511	Larus novaehollandiae subsp. novaehollandiae (Silver Gull)		
307.	Latrodectus geometricus		
308.	Latrodectus hasseltii		
309.	Leiognathus equulus		
310. 25343	Lepidochelys olivacea (Olive Ridley Turtle, Pacific Ridley Turtle)	Т	
311.	Leptobrama muelleri		
312. 25125	Lerista bipes		
313. 25138	Lerista griffini		
314.	Lethrinus laticaudis		
315.	Lethrinus sp.		
316. 25005	Lialis burtonis		
317. 25661	Lichmera indistincta (Brown Honeyeater)		
318. 24582	Lichmera indistincta subsp. indistincta (Brown Honeyeater)		
319. 25739	Limicola falcinellus (Broad-billed Sandpiper)	IA	
	Limicola falcinellus subsp. sibiricus (Broad-billed Sandpiper)	IA	
	Limnodromus semipalmatus (Asian Dowitcher)	IA	
	Limosa lapponica (Bar-tailed Godwit)	IA	

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	Name II	Species Name	Naturalised Con	servation Code	¹ Endemic To Query Area
32	3. 24796	Limosa lapponica subsp. menzbieri (Bar-tailed Godwit (northern Siberian))		Т	
32	4. 2574	Limosa limosa (Black-tailed Godwit)		IA	
32	2479	Limosa limosa subsp. melanuroides (Black-tailed Godwit)		IA	
32	6. 25380	Litoria caerulea (Green Tree Frog)			
32		Litoria rothii (Northern Laughing Tree Frog)			
32	18. 25392	Litoria rubella (Little Red Tree Frog)			
32	9.	Liza alata			
33	0.	Liza subviridis			
33	1.	Liza vaigiensis			
33		Lophiocharon trisignatus			
33		Lophoictinia isura			
33		Lucasium stenodactylum			
33		Lutianus carponotatus			
33		Lutjanus erythropterus Lutjanus lemniscatus			
33		Lutjanus russellii			
33		Lutjanus sp.			
34		Macropus agilis (Agile Wallaby)			
34		Macrotis lagotis (Bilby, Dalgyte, Ninu)		Т	
34		Malacorhynchus membranaceus (Pink-eared Duck)			
34		Malurus lamberti (Variegated Fairy-wren)			
34		Malurus lamberti subsp. assimilis (Variegated Fairy-wren)			
34	5. 25653	Malurus melanocephalus (Red-backed Fairy-wren)			
34	6. 24550	Malurus melanocephalus subsp. cruentatus (Red-backed Fairy-wren)			
34	7. 24583	Manorina flavigula (Yellow-throated Miner)			
34	8.	Megalops cyprinoides			
34	9.	Melanotaenia sp.			
35	0. 2458	Melithreptus albogularis (White-throated Honeyeater)			
35	1. 2566	Melithreptus gularis (Black-chinned Honeyeater)			
35	24736	Melopsittacus undulatus (Budgerigar)			
35		Menetia greyii			
35		Merops ornatus (Rainbow Bee-eater)			
35		Microcarbo melanoleucos			
35		Microeca fascinans (Jacky Winter)			
35 35		Microeca flavigaster (Lemon-breasted Flycatcher)			
35		Microeca flavigaster subsp. tormenti (Kimberley Flycatcher) Micrognathus micronotopterus			
36		Milvus migrans (Black Kite)			
36		Milvus migrans subsp. affinis (Black Kite)			
36		Mirafra javanica (Horsfield's Bushlark, Singing Bushlark)			
36		Mirafra javanica subsp. horsfieldii (Horsfield's Bushlark, Singing Bushlark)			
36	4.	Missulena occatoria			
36	5.	Mopsus mormon			
36	6. 2519	Morethia ruficauda subsp. ruficauda			
36		Morethia storri			
36		Motacilla alba (White Wagtail)			
36		Motacilla flava (Yellow Wagtail)		IA	
37		Mugil cephalus			
37		Mugil sp.	V		
37 37		Mus musculus (House Mouse) Myiagra inquieta (Restless Flycatcher)	Υ		
37		Mylagra Inquieta (Restiess Flycatcher) Mylagra Inquieta subsp. nana (Restless Flycatcher)			
37		Myiagra Inquieta subsp. Haria (Nestiess Prycatcher) Myiagra rubecula (Leaden Flycatcher)			
37		Myiagra ruficollis (Broad-billed Flycatcher)			
37		Myiagra ruficollis subsp. mimikae (Broad-billed Flycatcher)			
37		Myzomela erythrocephala (Red-headed Honeyeater)			
37		Myzomela erythrocephala subsp. erythrocephala (Red-headed Honeyeater)			
38	0.	Naso sp.			
38	1. 2534	Natator depressus (Flatback Turtle)		T	
38	2.	Nematalosa come			
38		Nematalosa sp.			
38		Nematalosa vlaminghi			
38		Neochmia phaeton (Crimson Finch)			
38		Neoscona theisii			
38		Neosilurus hyrtlii			
38		Nephila edulis			
38		Nettapus pulchellus (Green Pygmy-goose)			
39		Netuma proxima Nibea microgenys			٧
39		Ninox connivens (Barking Owl)			
30	23741			(E115)	
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	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
393.	24819	Ninox connivens subsp. connivens (Barking owl (southwest subpop.))		P3	
394.	25430	Notaden nichollsi (Desert Spadefoot)			
395.	04700	Notograptus guttatus		_	
396. 397.	24190	Numenius madagascariensis (Eastern Curlew) Numenius minatus		Т	V
398.	24799	Numenius minutus (Little Curlew, Little Whimbrel)		IA	
399.		Numenius phaeopus (Whimbrel)		IA	
400.	25564	Nycticorax caledonicus (Rufous Night Heron)			
401.		Nyctophilus arnhemensis (Arnhem Land Long-eared Bat)			
402.		Nyctophilus geoffroyi (Lesser Long-eared Bat)			
403. 404.		Nymphicus hollandicus (Cockatiel) Oceanites oceanicus (Wilson's Storm-petrel)		IA	
405.		Ocyphaps lophotes (Crested Pigeon)		IA.	
406.		Oecobius marathaus			
407.		Omobranchus ferox			
408.		Omobranchus lineolatus			
409.		Omobranchus rotundiceps			
410. 411.	2/138	Onuxodon margaritiferae Onychogalea unguifera (Northern Nailtail Wallaby, Karrabul)			
412.		Onychoprion anaethetus (Bridled Tern)		IA	
413.		Ophichthus rutidoderma			
414.		Ophieleotris aporos			
415.		Opistognathus darwiniensis			
416.		Opistognathus inornatus			
417.		Opistognathus reticulatus Orcaella brevirostris			
418. 419.	24060	Orcaella brevirostris Orcaella heinsohni (Australian Snubfin Dolphin)		P4	
420.	2.000	Orectolobus wardi		14	
421.	24608	Oriolus sagittatus (Olive-backed Oriole)			
422.		Oxyeleotris sp.			
423.	24620	Pachycephala lanioides (White-breasted Whistler)			
424.		Pachycephala melanura (Mangrove Golden Whistler)			
425. 426.		Pachycephala melanura subsp. melanura (Mangrove Golden Whistler)			
420.		Pachycephala rufiventris (Rufous Whistler) Pandion cristatus (Osprey, Eastern Osprey)		IA	
428.		Pantolabus radiatus		D.C.	
429.		Parablennius tasmanianus			
430.		Paradiplogrammus enneactis			
431.		Paraplagusia sinerama			
432.		Paraplotosus albilabris			
433. 434.		Parapolosus butleri			
434.		Parascolopsis sp. Parascorpaena picta			
436.		Pardachirus pavoninus			
437.	24627	Pardalotus rubricatus (Red-browed Pardalote)			
438.	25682	Pardalotus striatus (Striated Pardalote)			
439.		Passer montanus (Eurasian Tree Sparrow)	Υ		
440.		Pavo cristatus (Common Peafowl, Indian Peafowl)	Υ		
441. 442.		Pelecanoides urinatrix subsp. exsul (Common Diving Petrel) Pelecanus conspicillatus (Australian Pelican)			
443.	24040	Pentapodus emeryii			
444.		Pentapodus porosus			
445.		Periophthalmus argentilineatus			
446.		Periophthalmus koelreuteri			
447.		Petrochelidon ariel (Fairy Martin)			
448.		Petrochelidon nigricans (Tree Martin)			
449. 450.		Petroica goodenovii (Red-capped Robin) Phalacrocorax sulcirostris (Little Black Cormorant)			
450.		Phalacrocorax varius (Pied Cormorant)			
452.		Phaps histrionica (Flock Bronzewing, Flock Pigeon)			
453.	25668	Philemon citreogularis (Little Friarbird)			
454.	24592	Philemon citreogularis subsp. citreogularis (Little Friarbird)			
455.		Philemon sp.			Υ
456. 457	24802	Philomachus pugnax (Ruff, reeve)		IA	
457. 458.	24677	Pisodonophis cancrivorus Pitta moluccensis (Blue-winged Pitta)			
459.		Planigale ingrami (Long-tailed Planigale)			
460.		Platalea flavipes (Yellow-billed Spoonbill)			
461.		Platalea regia (Royal Spoonbill)			
462.		Platybelone argalus			
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Add		Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
4885 2018 Proposed information (Classey Birol)			• • •			
467, 2023 Provision for the Pipedia Godden Plover) 1A						
4812 24822 Phonotoxic family Proceding Conference IA		24843			IA	
481. 24187 Provide squareous (Corp Provincy) (A)		24382			IA	
471						
471. 2570	469.	25703	Podargus strigoides (Tawny Frogmouth)			
472. 2464 Perpulsia scritchaustic (Long-palmed Trickel)	470.	24678	Podargus strigoides subsp. phalaenoides (Tawny Frogmouth)			
471. 24600 Papapar misers unuters, methods (Desard Basender Corpora) 471. Pall Politosphale producesphales (Pales Politosphales (Services Perce) 472. Polyderbylax memorabis 473. Polyderbylax memorabis 474. Polyderbylax memorabis 475. Polyderbylax memorabis 476. Polyderbylax memorabis 477. Polyderbylax percentation (Pales Polyderbylax Memorabis) 478. Polyderbylax memorabis 479. Polyderbylax memorabis 470. Polyderbylax memorabis 470. Polyderbylax memorabis 470. Polyderbylax memorabis 470. Polyderbylax memorabis 471. Polyderbylax memorabis 471. Polyderbylax memorabis 472. Polyderbylax memorabis 473. Polyderbylax memorabis 474. Polyderbylax memorabis 474. Polyderbylax memorabis 475. Polyderbylax memorabis 475. Polyderbylax memorabis 476. Polyderbylax memorabis 477. Polyderbylax memorabis 477. Polyderbylax memorabis 478. Polyderbylax memorabis 479. Polyderbylax memorabis 470. Polyderbylax m	471.					
476. 2465 Prolocophalus protocophalus photo-phesiotic Grade) 476. Polydachylas multimatistus 477. 24712 Prolymacylas multimatistus 477. 478. Promosonius millori 478. Promosonius millori 479. Promosonius millori 479. Promosonius millori 479. Promosonius memponia (Oray-crumnol Rabbiar) 480. 25710 Promosonius memponia (Oray-crumnol Rabbiar) 481. 2484 Promosonius memponia (Oray-crumnol Rabbiar) 482. 25731 Prolymacylas grades (Oray-crumnol Rabbiar) 483. 2476 Prolymacylas grades (Oray-crumnol Rabbiar) 484. Promosonius memponia (Oray-crumnol Rabbiar) 485. 2576 Prolymacylas grades membratus (Purplas Sammylneri) 486. Promosonius memponia (Oray-crumnol Rabbiar) 487. Prolymacylas prolymacylas prolymacylas prolymacylas (Oray-crumnol Rabbiar) 488. Promosonius malionius 489. Prolymacylas multimatistus 489. Prolymacylas prolymacylas prolymacylas (Oray-crumnol Rabbiar) 489. Prolymacylas prolymacylas prolymacylas (Oray-crumnol Rabbiar) 480. Prolymacylas prolymacylas (Oray-crumnol Rabbiar) 481. April Prolymacylas (Oray-crumnol Rabbiar) 482. Prolymacylas (Oray-crumnol Rabbiar) 483. Prolymacylas (Oray-crumnol Rabbiar) 484. Prolymacylas (Oray-crumnol Rabbiar) 485. Prolymacylas (Oray-crumnol Rabbiar) 486. Prolymacylas (Oray-crumnol Rabbiar) 487. Prolymacylas (Oray-crumnol Rabbiar) 488. Prolymacylas (Oray-crumnol Rabbiar) 489. Prolymacy						
478. Polydebroyles macrocher 477. 24732 Polydebroyles desembled (Princese Prince) P4 478. Polydebroyles desembled (Princese Prince) P4 478. Polydebroyles macroprosis (Prop. emailed) P4 480. 25700 Polydebroyles macroprosis (Prop. emailed (P						
476. Polyskeptyke minimalnum P4 477. 478. Pomanaminus milleni 478. Pomanaminus milleni 479. Pomanaminus milleni 479. Pomanaminus milleni 480. 25705 Pomanaminus milleni 481. 2484 Pomanaminus millenia		24001				٧
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470. Permodesign appointers an emporate (Cery-covered Babbler) 481. 2468 Paramososomus amporate Sauga, rabekatus (Cery-covered Babbler) 482. 2476 Perphyrin perphyrin authority (Cery-covered Babbler) 483. 2476 Perphyrin perphyrin authority (Perple Swamphen) 484. Perspective and perphyrin authority (Perple Swamphen) 485. Perspective and perphyrin authority (Perple Swamphen) 486. Perspective and perphyrin authority (Perple Swamphen) 487. Perspective and perphyrin authority (Perple Swamphen) 488. Perspective and perspective	477.	24752			P4	
461. 2070. Pomotochronic temporalis Gilley convented Babbleri) 462. 2073 i Puphyris postphyris (Pariple Swempheri) 463. 3 2073 i Puphyris postphyris (Pariple Swempheri) 464. Protopia nuclificaciónia 465. Postphyris postphyris (Pariple Swempheri) 465. 2020 i Pasudochia australité (Anigo Srake) 466. 2020 i Pasudochia australité (Anigo Srake) 467. Pasudochironia fascia 468. Pasudochironia fascia 468. Pasudochironia fascia 469. Pasudochironia fascia 469. Pasudochironia fascia 469. Pasudochironia fascia 460. 2023 i Pasudochironia fascia 460. 2023 i Pasudochironia fascia 461. 4024 Pasudochironia fascia 462. Pasudochironia fascia 463. Pasudochironia fascia 464. Paripros anterinata 465. Pasudochironia ap 466. Pasudochironia ap 467. 2024 Pasudochironia fascia 468. Pasudochironia ap 468. Pasudochironia ap 469. Pasudochironia ap 460. 2024 Pasudochironia ap 460. Paripros anterinata 461. 4024 Pasudochironia 462. Paripros anterinata 463. 4034 Pasudochironia 464. Paripros anterinata 465. Paripros anterinata 466. 2024 Pasudochironia 467. 2024 Pasudochironia 468. 3004 Pasudochironia 469. 3004 Pas	478.		Pomacentrus milleri			
481. 24804 Promotivorius temponales suisas, indicadus (Grey crowned Babbler) 482. 24706 Prophytic populysis (Purple Sewampheri) 483. 24706 Prophytic populysis (Purple Sewampheri) 484. Prolipia muchilariaciale 485. Presintencharia temponales suisas (Purple Sewampheri) 486. Presidencharia futurales 487. Presidencharia temponales 488. Presidencharia temponales 489. Presidencharia temponales 489. Presidencharia temponales 480. Presidencharia temponales 481. 24706 Presidencharia temponales 482. Presidencharia temponales 483. Presidencharia temponales 484. Presidencharia temponales 485. Presidencharia temponales 486. Presidencharia temponales 487. Presidencharia temponales 488. Presidencharia temponales 489. Presidencharia temponales 489. Presidencharia temponales 480. P	479.		Pomadasys argenteus			
4812. 25731 Protrytivis potrytyin Subayan, malariantus (Purple Sewingheri) 484. 485. 24786 Protrytyin Subayan, malariantus (Purple Sewingheri) 485. 486. 25201 Presurbcinia subatriali (Maga Shake) 486. 25201 Presurbcinia subatriali (Maga Shake) 487. 488. 488. 488. 488. 488. 488. 488.						
483. 24706 Prophytos posphyrios autasta, melanotata (Purple Sewingherin) 485. Prisophoromic información 485. Pasimosporox wagioristis 486. 25261 Prisodochromis informa 487. Prisodochromis informa 488. Pasidochromis informa 489. Pasidochromis informa 489. Pasidochromis informa 480. Pasidochromis informa 480. Pasidochromis informa 480. Pasidochromis informa 481. Alt for Pasidochromicos ago 482. Pasidochromicos ago 483. Pasidochromicos ago 484. Pasidos información (Victoria Brown Shake) 484. Pasido animanata 485. Patricos ago pasido (Slock Pijing-fox) 486. 24112 Pisinopa acido (Slock Pijing-fox) 487. Patricos ago pasido (Slock Pijing-fox) 488. 39948 Pisinopas ingrisa siding, eningii Pisino-croader Pirit-drow) 489. 39948 Pisinopas ingrisa siding, eningii Pisino-croader Pirit-drow) 480. 39948 Pisinopas ingrisa siding, eningii Pisino-croader Pirit-drow) 480. 24172 Pisinopas acido (Slock Pijing-fox) 480. 24173 Pisinopas acido (Slock Pijing-fox) 480. 24173 Pisinopas acido (Slock Pijing-fox) 480. 24174 Pisinopas acido (Slock Pijing-fox) 480. 24175 Pisinopas acido (Slock Pijing-fox) 480. 24176 Pisinopas acido (Slock Pi						
484. Pricepte mechanisasias Parameters waspensia 486. 2201 Perauticina australia (Maga Snaka) Parameters waspensia 486. 2201 Perauticina australia (Maga Snaka) Perauticina australia (Maga Snaka) Perauticina filia filia (Maga Snaka) Perauticina filia filia filia (Maga Snaka) Perauticina filia fil						
485. Perumongenera winginerias		24700				
A87. Pseudodrimania Nacus			•			
ABB	486.	25261	Pseudechis australis (Mulga Snake)			
489. Peaudogobius ap.	487.		Pseudochromis fuscus			
490. 24218 Pseudoring imanglani (Western Brown Snake)						
491. 42416 Pseudoniaji mangolani (Wastern Brown Shake)		0.400.4				
492						
Petitotiseles versicolor		42410				
495			·			
496. 24172 Pieropus alecto (Black Plying-fox)	494.		Pterois antennata			
497. 24173 Peropus scapulatus (Little Red Prigng-fox) 498. 30946 Ptilimopus regims subsp. ewingil (Rose-crowned Fruit-dove)	495.		Pterois sp.			
498. 30046 Pillinopus regina subsp. ewingii (Rose-crowned Fruit-dove)						
498. 25725 Pillonorhynchus nuchalis (Great Bowerbird)						
Soc. 24758 Pillonorhynchus nuchalis subsp. nuchalis (Great Bowerbird) T						
501. 24715 Pulffinus huttoni (Hutton's Shearwater) T						
503. 24772 Rallina fasciata (Red-legged Crake) Y					Т	
Sol. Rallina fascinata Y	502.	24716	Puffinus pacificus (Wedge-tailed Shearwater)		IA	
505. 24245 Rattus rattus (Black Rat) Y 506. 24776 Recurvirostra novaehollandiae (Red-necked Avocet) 507. Remora emora Y 508. Rhina ancylostoma Y 509. Rhinicobatos sp. Y 510. 48096 Rhipidura albiscapa (Grey Fantail) *** 511. 25614 Rhipidura elucophrys (Willie Wagtail) *** 512. 24457 Rhipidura phasiana (Mangrove Grey Fantail) *** 513. 25616 Rhipidura nufiventris (Vellow-bellied Sheath-tailed Bat) *** 514. Salarias sexilium Y 515. Salarias sexilium Y 516. Salarias sexilium Y 517. Sargocentron rubrum Y 518. Scaevius milli *** 519. Scarlelaes histophorus *** 520. Scolependra morsitans *** 521. Scolopsis sp. *** 522. Scolopsis sp. *** 523. Scomberoides commersonnianus *** 524. Scomberomorus semifasciatus </td <td>503.</td> <td>24772</td> <td>Rallina fasciata (Red-legged Crake)</td> <td></td> <td></td> <td>Υ</td>	503.	24772	Rallina fasciata (Red-legged Crake)			Υ
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	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
533.		Sillago burrus			
534.		Sillago sihama			V
535. 536.	30948	Sillago sihama? Smicromis brevirostris (Weebill)			Υ
537.	00040	Sphyraena putnamae			Υ
538.	24517	Stercorarius parasiticus (Arctic jaeger, Arctic Skua)		IA	•
539.	24521	Sterna bengalensis (Lesser Crested Tern)			
540.	24522	Sterna bergii (Crested Tern)			
541.		Sterna dougallii (Roseate Tern)		IA	
542.		Sterna dougallii subsp. gracilis (Roseate Tern)		IA	
543. 544.		Sterna fuscata subsp. nubilosa (Sooty Tern) Sterna hirundo (Common Tern)		IA	
545.		Sterna hirundo subsp. longipennis (Common Tern)		IA IA	
546.		Sterna hybrida subsp. javanica (Whiskered Tern)		<i>u</i> .	
547.		Sternula albifrons (Little Tern)		IA	
548.	24329	Stictonetta naevosa (Freckled Duck)			
549.	24482	Stiltia isabella (Australian Pratincole)			
550.	42348	Stomiopera unicolor subsp. unicolor (White-gaped Honeyeater)			
551.		Strongylura sp.			Υ
552. 553.	25517	Strongylura strongylura Strophurus ciliaris			
554.		Strophurus ciliaris subsp. aberrans			
555.		Sturnus vulgaris (Common Starling)	Υ		
556.		Sula leucogaster (Brown Booby)		IA	
557.	24828	Sula leucogaster subsp. plotus (Brown Booby)		IA	
558.		Synanceia horrida			
559.	25705	Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe)			
560.	24682	Tachybaptus novaehollandiae subsp. novaehollandiae (Australasian Grebe, Black- throated Grebe)			
561.	25552	Tadorna radjah (Radjah Shelduck)			
562.		Taeniopygia bichenovii (Double-barred Finch)			
563.	30873	Taeniopygia bichenovii subsp. annulosa (Double-barred Finch)			
564.	30870	Taeniopygia guttata (Zebra Finch)			
565.	30871	Taeniopygia guttata subsp. castanotis (Zebra Finch)			
566.		Taeniura lymma			
567. 568.		Terapon jarbua Terapon puta			
569.		Terapon sp.			
570.		Terapon theraps			
571.		Thalasseus bengalensis			
572.	48597	Thalasseus bergii (Crested Tern)		IA	
573.		Thereuopoda lesueurii			
574.		Threskiornis spinicollis (Straw-necked Ibis)			
575.		Tiliqua multifasciata (Central Blue-tongue)			
576. 577.		Tiliqua scincoides (Eastern Blue-tongue) Tiliqua scincoides subsp. intermedia			
578.		Todiramphus chloris (Collared Kingfisher)			
579.		Todiramphus pyrrhopygius (Red-backed Kingfisher)			
580.		Todiramphus sanctus (Sacred Kingfisher)			
581.	24309	Todiramphus sanctus subsp. sanctus (Sacred Kingfisher)			
582.		Toxotes chatareus			
583.		Trachinocephalus myops			
584. 585	10111	Tragulichthys jaculiferus Tribonys ventralis (Black-tailed Native-hen)			
585. 586.	48141	Tribonyx ventralis (Black-tailed Native-hen) Trichiurus lepturus			
587.	25723	Trichoglossus haematodus (Rainbow Lorikeet)			
588.		Trichoglossus haematodus subsp. rubritorquis (Red-collared Lorikeet)			
589.		Trichonotus setiger			
590.		Trichosurus vulpecula subsp. arnhemensis (northern brushtail possum (Kimberley))		Т	
591.		Tringa brevipes (Grey-tailed Tattler)		P4	
592.		Tringa glareola (Wood Sandpiper)		IA IA	
593. 594.		Tringa nebularia (Common Greenshank, greenshank) Tringa stagnatilis (Marsh Sandpiper, little greenshank)		IA	
594. 595.		Turnix velox (Little Button-quail)		IA	
596.		Tyto alba subsp. delicatula (Barn Owl)			
597.		Tyto novaehollandiae subsp. novaehollandiae (Masked Owl (southwest))		P3	
598.		Uperoleia aspera (Derby Toadlet)			
599.	25446	Uperoleia talpa (Ratcheting Toadlet)			
600.		Urodacus hoplurus			
601.		Urodacus koolanensis			
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	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
602.		Urodacus yaschenkoi			
603.		Urogymnus asperrimus			Υ
604.		Valamugil cunnesius			
605.		Valamugil sp.			Υ
606.	25577	Vanellus miles (Masked Lapwing)			
607.		Vanellus miles subsp. miles (Masked Lapwing)			
608.		Vanellus tricolor (Banded Lapwing)			
609.		Varanus acanthurus (Spiny-tailed Monitor)			
610.		Varanus gouldii (Bungarra or Sand Monitor)			
611.		Varanus panoptes subsp. panoptes			
612.		Xenus cinereus (Terek Sandpiper)		IA	
613.	24857	Zosterops luteus (Yellow White-eye)			
Chromista					
614.	26694	Colpomenia sinuosa			
615.	26775	Dictyota ciliolata			
616.	27245	Sargassum ilicifolium			
617.	27255	Sargassum polycystum			
618.	42785	Sirophysalis trinodis			
Fungi					
619.	46634	Anthracocystis tumefaciens			
620.		Cintractia limitata			Υ
620.	70131	Deightoniella torulosa			1
622.	41902	Ganoderma steyaertanum			
623.		Inocybe subtilior			
624.	40001	Pestalotiopsis palmarum			
625.	46635	Sporisorium porosum			
626.		Ustilago cynodontis			
627.		Ustilago xerochloae			
628.		Yelsemia lowrieana			Υ
	10020	Totolina tottioana			
Plantae					
629.		Abrus precatorius subsp. precatorius			
630.		Abutilon hannii			
631.		Abutilon indicum var. australiense			
632.		Abutilon otocarpum (Desert Chinese Lantern)			
633.		Acacia adoxa var. subglabra			
634.		Acacia ampliceps			
635.		Acacia bivenosa			
636.		Acacia colei			
637.		Acacia colei var. colei			
638.		Acacia eriopoda (Broome Pindan Wattle)			
639.		Acacia eriopoda x tumida var. tumida			
640.		Acacia monticola (Gawar, Lilwardi)			
641.		Acacia monticola x tumida var. kulparn		P3	
642.		Acacia plectocarpa subsp. plectocarpa			
643.		Acacia trachycarpa (Minni Ritchi, Balgali)			
644.		Acacia tumida var. kulparn			
645.		Acacia tumida var. tumida			
646.		Acanthophora spicifera	V		
647.		Acanthospermum hispidum (Starburr)	Υ		
648.		Acceptation page			
649. 650.		Acrocystis nana			
		Adansonia gregorii (Boab, Djungeri)			
651. 652.		Adriana tomentosa var. tomentosa Aerva javanica (Kapok Bush)	V		
653.		Ageratum conyzoides	Y		
654.		Albizia lebbeck	Υ		
655.		Alstonia linearis (Bitter Bark)			
656.		Alternanthera pungens (Khaki Weed)	Υ		
657.		Alyogyne pinoniana (Sand Hibiscus)	r		
658.		Alysicarpus ovalifolius	Υ		
659.		Amaranthus undulatus	,		
660.		Amphiroa fragilissima			
661.		Amprinoa rraginissima Amyema benthamii			
662.		Amyema bifurcata			
663.		Amyema sanguinea var. sanguinea			
664.		Amyema thalassia			
	2300				
	35972	Anadyomene plicata			
665.		Anadyomene plicata Androcalva loxophylla			
	40917	Anadyomene plicata Androcalva loxophylla Aristida holathera var. latifolia			







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
668.	211	Aristida hygrometrica (Northern Kerosene Grass)			
669.	212	Aristida inaequiglumis (Feathertop Threeawn)			
670.	41725	Asystasia gangetica subsp. gangetica	Υ		
671.	4740	Atalaya hemiglauca (Whitewood)			
672.	6828	Avicennia marina (White Mangrove)			
673.		Azadirachta indica	Υ		
674.		Batis argillicola			
675.		Bauhinia cunninghamii			
676.		Bergia ammannioides			
677.		Blumea tenella			
678.		Boerhavia coccinea (Tar Vine, Wituka)			
679. 680.		Boerhavia dominii Boerhavia gardneri			
681.		Boerhavia paludosa			
682.	2110	Boerhavia sp.			
683.	26515	Bostrychia tenella			
684.		Bothriochloa pertusa	Υ		
685.		Botryocladia leptopoda	•		
686.		Brachychiton diversifolius subsp. diversifolius			
687.	4603	Bridelia tomentosa			
688.	5291	Bruguiera exaristata (Ribbed Mangrove)			
689.	750	Bulbostylis barbata			
690.		Butea monosperma			Υ
691.	18073	Byblis filifolia			
692.	3624	Caesalpinia major			
693.	10972	Cajanus marmoratus			
694.		Calandrinia strophiolata			
695.		Callisia repens	Υ		
696.		Calotropis gigantea	Y		
697.		Camptostemon schultzii (Kapok Mangrove)			
698.		Canavalia rosea (Wild Jack Bean)			
699. 700.		Carpsa Japanelata (Capkorbara Marquuiii)			
700.		Carissa lanceolata (Conkerberry, Marnuwiji) Cassytha capillaris			
701.		Cassytha filiformis (Love Vine, Jirawan)			
703.		Caulerpa chemnitzia			
704.		Caulerpa corynephora			
705.		Caulerpa lamourouxii			
706.		Caulerpa serrulata			
707.	26577	Caulerpa sertularioides			
708.	26579	Caulerpa taxifolia			
709.	35124	Caulerpa taxifolia var. taxifolia			
710.	41565	Cenchrus americanus (Pearl Millet)	Υ		
711.	257	Cenchrus biflorus (Gallon's Curse)	Υ		
712.		Cenchrus ciliaris (Buffel Grass)	Υ		
713.	259	Cenchrus echinatus (Burrgrass)	Υ		
714.	00001	Cenchrus purpurascens			Υ
715.	29721	Cenchrus setiger (Birdwood Grass)	Υ		
716. 717.	26597	Centratherum punctatum			
717.	20301	Centroceras clavulatum Centrosema molle			
710.	13680	Centrosema pascuorum	Υ		
719.		Ceriops australis	I		
721.		Chloris barbata (Purpletop Chloris)	Υ		
722.		Chloris virgata (Feathertop Rhodes Grass)	Y		
723.		Chrysopogon pallidus (Ribbongrass)			
724.	48838	Citrullus amarus	Υ		
725.	11886	Cleome tetrandra var. tetrandra			
726.	2988	Cleome viscosa (Tickweed, Tjinduwadhu)			
727.	13693	Clerodendrum floribundum var. coriaceum			
728.		Clerodendrum tomentosum var. mollissima			
729.		Clerodendrum tomentosum var. tomentosum			
730.		Clitoria ternatea	Υ		
731.		Coccinia grandis	Υ		
732.		Codium arabicum			
733.		Codium dwarkense			
734. 735.		Codonocarpus cotinifolius (Native Poplar, Kundurangu)			
735. 736.		Coelarthrum opuntia Conyza bonariensis (Flaxleaf Fleabane)	Υ		
737.		Corchorus aestuans			
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	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
73		Corchorus incanus subsp. incanus			
73		Corchorus sidoides subsp. vermicularis			
74 74		Corymbia bella Corymbia dendromerinx			
74:		Corymbia donaromomia Corymbia flavescens			
74:		Corymbia greeniana			
74		Corymbia paractia		P1	
74		Corymbia polycarpa			
74	6. 17084	Corymbia zygophylla			
74	7. 1285	Corynotheca micrantha (Sand Lily)			
74		Crotalaria brevis			
749		Crotalaria cunninghamii (Green Birdflower, Bilbun)			
75		Crotalaria cunninghamii subsp. cunninghamii			
75°		Crotalaria medicaginea var. neglecta Crotalaria ramosissima			
75:		Crotalaria sp.			
754		Cryptostegia madagascariensis	Υ		
75		Cucumis melo (Ulcardo Melon)	·		
75		Cullen martinii			
75	7. 13732	Cuscuta campestris (Golden dodder)	Υ		
75	8. 31213	Cuscuta chinensis			
75	9. 13733	Cuscuta victoriana			
76		Cyanostegia cyanocalyx			
76		Cyanthillium cinereum	Υ		
76:		Cymodocea angustata			
76: 76:		Cynanchum pedunculatum Cynodon convergens			
76		Cynodon dactylon (Couch)	Υ		
76		Cyperus bulbosus (Bush Onion, Tjanmata)			
76		Cyperus compressus	Υ		
76		Cyperus conicus			
769	9. 810	Cyperus rotundus (Nut Grass)	Υ		
77	0. 812	Cyperus scariosus			
77	1. 288	Dactyloctenium aegyptium (Coast Button Grass)	Υ		
77:		Dactyloctenium radulans (Button Grass)			
77:		Denhamia cunninghamii (Koonkara)			
77 <i>-</i> 77:		Dentella misera Desmodium filiforme			
77		Desmodium tortuosum (Florida Beggarweed)	Υ		
77		Dichrostachys spicata (Pied Piper Bush)	'		
778		Digenea simplex			
779	9. 309	Digitaria bicornis (Finger Grass)			
78	0. 311	Digitaria ciliaris (Summer Grass)	Υ		
78	1. 35178	Digitaria radicosa	Υ		
78:		Distimake aegyptius	Υ		
78:		Distimake dissectus var. dissectus	Υ		
784		Dodonaea hispidula var. arida			
78: 78:		Dodonaea hispidula var. phylloptera Dolichandrone occidentalis			
78		Eclipta prostrata	Υ		
78		Ehretia saligna (False Cedar)			
78		Ehretia saligna var. saligna			
79	0. 353	Eleusine indica (Crowsfoot Grass)	Υ		
79	1.	Eleutheranthera ruderalis			
79:	2. 363	Enneapogon pallidus (Conetop Nineawn)			
79:		Eragrostis cumingii (Cuming's Love Grass)			
79		Eragrostis eriopoda (Woollybutt Grass, Wangurnu)			
79: 79:		Eragrostis falcata (Sickle Lovegrass) Eragrostis minor (Smaller Stinkgrass)	V		
79		Eragrostis tenuifolia	Y Y		
79		Eriachne melicacea			
79:		Eriachne obtusa (Northern Wandarrie Grass)			
80		Erythrina vespertilio (Yulbah)			
80		Erythrophleum chlorostachys (Ironwood, Dyundyu)			
80	2. 5785	Eucalyptus tectifica (Darwin Box)			
80:	3. 26827	Eucheuma denticulatum			
804		Euphorbia australis var. subtomentosa			
808		Euphorbia coghlanii (Namana)			
80		Euphorbia cyathophora Euphorbia heterophylla	Y Y		
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	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
808.	4629	Euphorbia hirta (Asthma Plant)	Υ		
809.	42878	Euphorbia thymifolia	Υ		
810.		Euphorbia trigonosperma			
811.		Evolvulus alsinoides var. decumbens			
812.		Exocarpos latifolius (Broad-leaved Cherry)			
813.		Ficus aculeata var. indecora (Ranji)			
814. 815.		Fimbristylis cymosa Flaveria trinervia (Speedy Weed)	Υ		
816.		Flueggea virosa	r		
817.		Flueggea virosa subsp. melanthesoides (Dogwood, Guwal)			
818.		Gamochaeta pensylvanica	Υ		
819.		Gardenia pyriformis (Malara)			
820.	15234	Gardenia pyriformis subsp. keartlandii			
821.		Gardenia sp.			
822.	13829	Glycine pindanica		P3	
823.	3942	Glycine tomentella (Woolly Glycine)			
824.		Gnaphalium polycaulon (Indian Cudweed)	Υ		
825.		Gomphrena celosioides (Gomphrena Weed)	Υ		
826.		Gomphrena flaccida (Gomphrena Weed)			
827.		Gomphrena pusilla		P2	
828. 829.		Gomphrena tenella Goodenia armitiana			
830.		Goodenia byrnesii		P3	
831.		Goodenia lamprosperma		1.5	
832.		Goodenia scaevolina (Ngurubi)			
833.		Goodenia sepalosa var. sepalosa			
834.	4910	Gossypium australe (Native Cotton)			
835.	4913	Gossypium hirsutum (Upland Cotton)	Υ		
836.	4916	Gossypium populifolium			
837.	26873	Gracilaria salicornia			
838.	15975	Grevillea pyramidalis subsp. pyramidalis			
839.		Grevillea refracta subsp. refracta			
840.		Grewia breviflora			
841. 842.		Grewia retusifolia (Dog's Balls)	Υ		
843.		Guilleminea densa Gymnanthera oblonga	r		
844.		Gyrocarpus americanus (Helicopter Tree, Bilangkamar)			
845.		Gyrocarpus americanus subsp. pachyphyllus			
846.		Gyrostemon tepperi			
847.	2129	Hakea arborescens (Common Hakea)			
848.	2178	Hakea macrocarpa (Dyaridany, Jaradinty)			
849.		Halimeda macroloba			
850.		Halodule uninervis			
851.		Halophila ovalis (Sea Wrack)			
852. 853.		Halophila spinulosa			
854.		Halymenia durvillei Heliotropium foliatum			
855.		Heliotropium leptaleum			
856.		Heteropogon contortus (Bunch Speargrass)			
857.		Hibiscus apodus			
858.	29317	Hibiscus austrinus var. austrinus			
859.	4929	Hibiscus geranioides			
860.	4933	Hibiscus leptocladus			
861.	5215	Hybanthus aurantiacus			
862.		Hydrilla verticillata (Water Thyme)			
863.		Hypnea pannosa			
864.		Hypoestes floribunda var. varia			
865. 866.		Ichnocarpus frutescens Indigofera colutea (Sticky Indigo)			
867.		Indigofera coutea (sticky Indigo) Indigofera hirsuta (Hairy Indigo)			
868.		Indigofora linifolia			
869.		Ipomoea batatas	Υ		
870.		Ipomoea cairica (Coast Morning Glory)	Υ		
871.	6623	Ipomoea coptica			
872.		Ipomoea muelleri (Poison Morning Glory, Yumbu)			
873.		Ipomoea pes-caprae			
874.	11312	Ipomoea pes-caprae subsp. brasiliensis			V
875. 876.	18205	Ipomoea pes-caprae subsp. pes-caprae Ipomoea pes-tigridis	Υ		Y
877.		Ipomoea polymorpha			







1972 20000 portune ababas V		Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
1979	878.	20003	Ipomoea triloba	Υ		Alou
1891			·			
Page	880.	34797	Jacquemontia sp. Broome (A.A. Mitchell 3028)		P1	
BBS. 283-22 Januarion Januarion (Plan Duckensor)	881.	12059	Jasminum didymum subsp. lineare (Desert Jasmine)			
1984	882.	4656	Jatropha gossypiifolia (Bellyache Bush)	Υ		
1885 1885 Lancano Nationarophica analysis businessphale 1886	883.	28342	Landoltia punctata (Thin Duckweed)			
885	884.	4054	Leptosema anomalum			
887. 478. Listan persons (Personnial Physicses) 886. 2096 Lysians spethiolate 886. 2096 Lysians spethiolate 886. 14070 Micropillum arcouptyneum (Purple Belan) 887. 4707 Micropillum arcouptyneum (Purple Belan) 887. 487. 487. 487. 487. 487. 487. 487.	885.	18351	Leucaena leucocephala subsp. leucocephala	Υ		
880. 5596 Lumantaran gatemate (When-lovered Black Mangouve) 880. 1100 Uprian spatialistics 891. 1400 Mangolistic prospectation subsp. pathwistes 891. 4405 Moliton receptives 892. 4405 Moliton receptives 893. 1801. 1807 Monarchine violiticus 894. 1803. 1807 Monarchine subsp. paptialistics 895. 1805 Monarchine subsp. paptialistics 895. 1805 Monarchine subsp. paptialistics 896. 1805 Monarchine subsp. paptialistics 897. 5801 Molitons catalogistics 898. 1807 Monarchine subsp. paptialistics 899. 1807 Monarchine subsp. paptialistics 899. 1807 Molitons Catalogistics 899. 1807 Molitons Catalogistics 899. 1807 Molitons Catalogistics 890. 1807 Molitons Catalogist	886.	37480	Lobelia arnhemiaca			
888 239 January agrahulation	887.	476	Lolium perenne (Perennial Ryegrass)	Υ		
881. 1190 Lysiner grathwister surbey, parhwister 881. 4070 Moscopolitus reportupienum (Plaguis Belan) 982. 4658 Molitus resognitus 886. 1068 Moscopienus surpetus 886. 1068 Moscopienus surpetus 886. 1068 Moscopienus surpetus 886. 1068 Moscopienus surpetus 887. 5501 Mellevisus distribus autas; respira 888. 12501 Mellevisus distribus autas; respira 889. 12501 Mellevisus distribus autas; respira 889. 12501 Mellevisus distribus surbeysitus 889. 12501 Mellevisus distribus surbeysitus 889. 12501 Mellevisus distribus 980. 12501 Mellevisus 980	888.	5296	Lumnitzera racemosa (White-flowered Black Mangrove)			
881	889.	2399	Lysiana spathulata			
892. 4658 Morthors responsives 893. 1657 Manachema aproparative 896. 1658 Manachema aproparative 896. 1658 Manachema contributes subap, repoke 897. 501 Morthorac abolites (Franchor) 898. 1551 Manachema abority (Franchor) 899. 1551 Michael abority (Franchor) 900. 1521 Michael abority (Franchor) 901. 3373 Microsoftop (Franchor) 902. 2494 Millians brutani 903. 7737 Microsoftop braines (Basham Apple) Y 904. 6400 Manachemistry (Basham Apple) Y 905. 11716 Millians brutani Y 906. 1715 Millians aboritani Y 907. 2737 Medicansis americany Y 908. 4070 Comma manachema (Basham Apple) Y 909. 4071 Appleama manachema (Basham Apple) Y 909. 4072 Comma manachema propagate Y 909. 4073 Nebesses americanya Y 909. 4074 Comma manachema propagate Y 910. 15340 Oldomortanican (Bash) Y 911. 4081 Oldomortanican Y 912. 2382 Oldo americance Y 913. 161 Oldomortanican (Bash Manachema (Bash Manachema Apple) Y 914. 5323 Paspathum voginatum (B	890.	11809	Lysiana spathulata subsp. spathulata			
18631 18632 Marcinena incustation	891.	4070	Macroptilium atropurpureum (Purple Bean)	Υ		
88.5 1555 Marchano infollorium subapa propose 88.6 Mocontribuia procumbron Y 88.7 501 Medianos esobeleta (Princhor) 88.8 505 Machineria esteripribate 900 4325 Mediange designatia 901 3337 Mocrateria processor 902 2344 Milliana braham 903 2473 Mocrateria processor 904 3337 Mocrateria processor 905 1107 Monorateria destamina (Palana Apple) 904 1407 Mocrateria destamina (Palana Apple) 905 1107 Mocrateria destamina (Palana Apple) 906 1171 Mocrateria destamina (Palana Apple) 907 1718 Mocrateria destamina (Palana Apple) 908 1917 Mocrateria destamina (Palana Apple) 909 8077 Colimina basilicum (Palana Apple) 901 1918 Colimina basilicum (Palana Apple) 902 1917 October (Palana Apple) 903 4077 Palana Apple (Palana Apple)	892.	4658	Mallotus nesophilus			
1865. 1853 Macradona visitation autops, majoria	893.	16537	Marsdenia angustata			
866. Moceandonia procumbens Y	894.	6598	Marsdenia viridiflora			
887.	895.	16535	Marsdenia viridiflora subsp. tropica			
Bills	896.		Mecardonia procumbens			Υ
889. 1288 Malelogoe elleyarian 900. 40283 Mencaphagen-visionenelle 901. 31574 Marcotachys-channele 902. 9044 Males at braini 903. 9044 Males at braini 903. 9044 Males at braini 903. 9044 Males at braini 905. 90	897.	5901	Melaleuca dealbata (Karnbor)			
900. 48283 Missoghment surventures Y	898.	5051	Melhania oblongifolia			
900. 48283 Missoghment surventures Y	899.					
901. 31314 Microstory chammeles 902. 2924 Milluss arbaniei 903. 7378 Monordica balsamina (Balsam Apple) 904. 0400 Maellerotimoro salicorriscoura 905. 1718 Monordica balsamina (Balsam Apple) 906. 1718 Monordica gamineia (Balsam 907. 0578 Nedosissa sarcouray 907. 2678 Nedosissa sarcouray 908. 44784 Colmum americanum 909. 0907 Colmum Basilicam (Balsa) 910. 13340 Oldenfandia corymbosa var. corymbosa 911. 03681 Operationa aequisepsile 912. 2362 Opilia ameritacea 913. 14 Pandamus parilia (Scremyon, Walsam) 914. 503 Panicum decorriposium (Netive Miller, Kaltu-kaltu) 915. 523 Paspalatium ranum (Rare Paspalatium) 916. 533 Paspalatium ranum (Rare Paspalatium) 917. 5262 Passilivan Rodosi (Siniking Passion Flower) 918. 1357 Parvetik Michenteriyana 919. 33462 Peltophorum pierocarpum 920. 13702 Pepuramina pallucida 921. 546 Perolita ran (Comer disass) 922. 2523 Perolita disata (Wild Para, Gandalia) 923. 4673 Pilyllerithus ameritas 924. 4774 Pilyllerithus ameritas 925. 13022 Pilyllerithus ameritas 926. 13022 Pilyllerithus ameritas 927. 1045 Pasta disata (Wild Para, Gandalia) 928. 4673 Pilyllerithus ameritas 939. 2689 Pilylverithus ameritas 940. 1404 Pilylarithus annibellitra 950. 2790 Pilylarithus annibellitra 950. 2700 Pilylarithus annibellitra 950				Υ		
902. 2044 Millicus brahai 903. 1738 Mismordica balasmina (Balsam Apale) 904 6960 Maetherulamor salicorriacoum 905 1167 Mardannia graminae (Balsam Apale) 905 1175 Mopocoum minimum (Balsa Myrila) 907. 2273 Neolossia ataronizarum 908. 44743 Commun americarum 909. 4967 Commun basilicum (Balsa Myrila) 909. 4967 Commun basilicum (Basili V 910. 13340 Oberbardan coryndosa vav. cosynthosa 911. 6861 Opeculina aequilaspata 912. 2032 Opilia mentincan 913. 104 Pandanus apiralis (Scrievpine, Walsim) 914. 503 Panicam decompostum (Halve Mille, Kaltu-kaltu) 915. 503 Papalellum ratum (Falsar Sagaildum) 916. 503 Papalellum ratum (Falsa Miller Couch) 917. 526 Passiliora (fortici) (Sinking Passion Flower) 918. 1370 Pavetas kinchrityunna 919. 3348 Pellophorum pierocospum 92. 1732 Peperomia palturidis (Wild Pear, Gandalo) 922. 2033 Persounia falsata (Wild Pear, Gandalo) 924. 1774 Pyrlauthus amenilia 925. 1932 Pyrlauthus inimita 926. Pilea microphylia 927. 1774 Pyrlauthus inimita 928. 43944 Pluchas Incipiina 939. 288 Polycarpana corynthosa 930. 289 Polycarpana corynthosa 931. 2803 Polycarpana corynthosa 932. 4577 Pyrlauthus inimita 933. 2808 Polycarpana corynthosa 934. 4104 Polymeira ambieus (Wild Pear, Gandalo) 935. 2883 Polycarpana corynthosa 936. Pilea microphylia 937. 2884 Polycarbara ambieus (Winding Glopy) 9384 4104 Polymeira ambieus (Winding Glopy) 9395. 2898 Polycarpana corynthosa 9396. 2898 Polycarpana corynthosa 9397. 2804 Polycarpana corynthosa 9398. 2808 Polycarpana corynthosa 9399. 2808 Polycarpana corynthosa 9390. 2808 Polycarpana corynthosa 9391. 2808 Polycarpana corynthosa 9392. 2808 Polycarpana corynthosa 9393. 2808 Polycarpana corynthosa 9394. 4104 Polymeira santhus (Wild Mullia) 941. 2714 Pilotica calistata (Wild Realish) 942. 2715 Pilotica proteintic (Wild Realish) 943. 2737 Pilotica isratius 944. 2717 Pilotica santhus raturale (Wild Realish) 945. 3818 Polycarpana palparaletica (Wild Realish) 946. 2819 Polycarpana australia (Rhynchosia)						
903. 17378 Monrorifice balasamina (Balsam Apple) 904. 6490 Mediechorum salicamacumm 905. 1167 Mardismia graminea (Barhyn) 906. 17158 Mycoporum monitarum (ristrie Myrite) 907. 22573 Nechosias amicroarpa 908. 44784 Orimum amoricanum 909. 6907 Cerimum Balasicum (Bast) 910. 13340 Oldenfandia corymbosa var. corymbosa 911. 13685 Operacitiva anquisepala 912. 2362 Opilia amoritacea 913. 104 Pandamus applias (Screepine, Wakirt) 914. 503 Panicum decomposulum (Nethe Miller (Katu-kallu) 915. 503 Paspalum vagrinatum (Salt Water Couch) 916. 503 Paspalum vagrinatum (Salt Water Couch) 917. 5252 Passadiva Gentia (Sinting Passion Flower) 918. 13370 Pavletis Monteninguma 919. 33462 Pelicyhorum pierocapajum 919. 33462 Pelicyhorum pierocapajum 920. 17320 Peparomina pallucida 921. 546 Perotas rara (Cornet Grans) 922. 223 Perocolina distaut (Wild Penr. Gandala) 923. 4673 Phyllinchitus amarius 924. 4774 Phyllinchitus amarius 925. 13327 Phyllinchitus amarius 926. 13367 Phyllinchitus amarius 927. 1045 Pistia straticiosis (Water Leituce) 928. 49944 Pluchea tengiana 939. 2488 Polycarpasa corymbosa 930. 2898 Polycarpasa corymbosa 931. 2603 Polycarpasa corymbosa 932. 4577 Polygala tappora 934. 4104 Polymania pa. Borone (K.F. Kenneally 9799) 935. 2888 Portubosa palasa (Palasa, Wakail) 940. 2274 Philosa construits (Risking) 941. 2774 Phyllinchitus amarius 942. 2888 Portubosa palasa (Palasa, Wakail) 943. 2787 Prilosa finicinia 944. 2774 Phylosa finicinia 945. 2898 Portubosa palasa (Palasa, Wakail) 946. 2898 Portubosa palasa (Palasa, Wakail) 947. 2774 Philosa caracitus (Fala Mulla) 948. 2777 Prilosa stranusa var. remaia 949. 2777 Prilosa stranusa var. remaia			•			
904. 6400 Muellerollmon aslicorniaeum (Banhylu) 905. 1157 Murdannia graminea (Banhylu) 906. 1758 Mycoponia monitanum (Native Myrtle) 907. 2373 Nicolassia astrocarpa 908. 4078 Crimum basilicum (Basil) 909. 6807 Crimum basilicum (Basil) 910. 13340 Oldenlandia corymbosa var. corymbosa 911. 6515 Openculnia aequitapeale 912. 2362 Opila amentacea 913. 104 Pandanus spiniis (Screepine, Mokirr) 914. 503 Paricum decompositum (Native Miller, Kaltu-kaltu) 915. 503 Paricum decompositum (Native Cuchi) 916. 533 Paspallum ratum (Rare Paspallicum) 917. 522 Paspallicum ratum (Rare Paspallicum) 918. 13570 Pavetta kimberleyana 919. 13340 Pelendinoum plencarpum 920. 17530 Peperunia pellucida 921. 546 Perotes rat (Cornet (Grass) 922. 2635 Persoonia falcata (Mid Pear, Gandala) 923. 4673 Phyliarithus urannia 924. 17794 Phyliarithus urannia 925. 19327 Phyliarithus urannia 926. 7949 Pista atraiteise (Water Lettuca) 927. 1045 Pista atraiteise (Water Lettuca) 928. 1810 Plucha nicolpista 929. 1810 Publica nicolpista 920. 4577 Phyliarithus urannia 920. 4577 Phyliarithus urannia 921. 2685 Polycapaea kongificia 922. 4577 Polyquia toppori 933. 6565 Polymania ameligua (Morning Glory) 934. 41644 Polymania a, Econom (K.F. Kannania) 9759) 935. 2888 Polychapaea kongificia 937. 2888 Polychapaea kongificia 938. 2889 Polycapaea kongificia 939. 2889 Polycapaea kongificia 930. 2889 Polycapaea kongificia 931. 2889 Portuica aniomisia (Rajangnia) 940. 1807 Pylydar attennia ura urannia 940. 1807 Pylydar attennia urannia (Rajangnia) 941. 2777 Piblicus arantania urannia (Malin) 942. 2771 Piblicus arantania (Rajangnia) 943. 2777 Piblicus arantania (Rajangnia) 944. 2771 Piblicus arantania (Rajangnia) 945. 3661 Raphaniar saphaniartum (Wid Radath) 946. 5678 Rhizophonia ayana (Spotekheriewe Rad Mangrove) 947. 4190 Ritynchosia australis (Rhynchosia)				Υ		
905. 1115 Murdannia graminos (Banlyu) 905. 17158 Myoporum montanum (Native Myrtle) 907. 2737 Neobassia astrocarpa 908. 44784 Cerimum americanum Y 909. 6070 Cerimum basilicum (Balau) Y 910. 13340 Olebrilandia corymbosa var. corymbosa Y 911. 6561 Operatina aequisappala 912. 2862 Opilia ameritarea 913. 104 Pardanus sinialis (Screwpino, Wakirin) 914. 503 Parintum decorpositum (Rative Millat, Kaltu-kaltu) 915. 503 Paspalidum natum (Rative Paspalidum) 916. 533 Paspalidum natum (Rative Paspalidum) 917. 5026 Passiliora faetilat (Sinikhigi Passion Flower) 918. 1370 Pavetta interberleyana 919. 33402 Pultophorum phorocarpum 919. 33402 Pultophorum phorocarpum 920. 17320 Paperonia pellucida 921. 546 Partosis rati (Crimel Grass) 922. 2635 Parsonnia factat (Wild Fear Gandala) 923. 4573 Phylyanthus amanus 924. 17774 Phylyanthus terelulis 925. 13922 Phylyanthus amanus 926. Pilitophorus terelulis 927. 1045 Pilitophorus terelulis 928. 43344 Pluchea longiasta 929. 1816 Pluchea rubeliliforn 930. 2688 Phytopapea corymbosa 931. 2603 Polycarpaea longiifora 932. 2688 Pultopapea corymbosa 933. 6553 Polymenia aminus (K.F. Kenneally 9759) 934. 4144 Pluchea longiasta 935. 2888 Portulaca delirane, Wakiani) 938. 2888 Portulaca filifolia 939. 2888 Portulaca celarinea (Wakiani) 940. 18207 Pylyantina apilicum (K.F. Kenneally 9759) 935. 2888 Portulaca delirane, Wakiani) 940. 18207 Pylyantina pultorinis 941. 2717 Pilitotis exelatus (Tall Mulla Mulla) 942. 2717 Pilitotis exelatus (Tall Mulla Mulla) 943. 2717 Pilitotis ininitus 944. 2717 Pilitotis exelatus (Tall Mulla Mulla) 945. 3616 Raphanus raphanarum (Wild Faddoh) 946. 2629 Rittophora aplaca colpriscole (Walla Faddori) 947. 4190 Riyyachosia ustralis (Rhynchosia)						
906. 17158 Mycopour montanum (Native Mynte) 907. 2573 Neobassia astrocippa 908. 44784 Czimum americanum 909. 6607 Czimum basilicum (Basil) 910. 13340 Oldenlandia corymbosa var. corymbosa 911. 6651 Operculina equipaspale 912. 2532 Oplia ameritacea 913. 104 Pandarus spiralis (Screepine, Walsim) 914. 6057 Operculina equipaspale 915. 932 Paspalidum mum (Rave Paspalidum) 915. 932 Paspalidum mum (Rave Paspalidum) 916. 533 Paspalidum mum (Rave Paspalidum) 917. 2522 Paspalidum mum (Rave Paspalidum) 918. 13570 Pavetta kimberleyana 919. 13534 Pavetta kimberleyana 919. 13534 Pavetta kimberleyana 920. 17330 Paperonia pallucida 921. 548 Parotis rar (Comel Grass) 922. 2635 Parsonnia falotat (Wild Pear, Gandala) 923. 4473 Phyllandius amanus 924. 17734 Phyllandius amanus 925. 13927 Phyllandius amanus 926. 17744 Phyllandius amanus 927. 1048 Paisis straiotos (Wilder Lettuce) 928. 16344 Puluchea Inoligiana 929. 1818 Pluchae nubellifica 920. 1818 Pluchae nubellifica 921. 288 Polycapea korgilota 922. 288 Portulaca filicia 933. 288 Portulaca filicia 934. 41444 Polymeria sp. filicia (Marine) 935. 288 Portulaca pilicia (Marine) 946. 288 Portulaca pilicia (Marine) 947. 1949 Ribitus atamus var. trentla 948. 288 Portulaca pilicia (Marine) 949. 277 Pilicius atamus var. trentla 941. 277 Pilicius dentatus (Terrine) Mulla Multa) 942. 277 Pilicius dentatus (Terrine) Mulla Multa) 943. 277 Pilicius dentatus (Terrine) Mulla Multa) 944. 277 Pilicius dentatus (Terrine) Mulla Multa) 945. 361 Raphanus raphanairum (Wild Fadalia) 946. 565 Ritzophranis antratis (Rhynchosia) 947. 4190 Rhynchosia austratis (Rhynchosia)						
907. 2573 Necbassia astrocarpa 908. 4478 Ocimum americanum 909. 6907 Ocimum basilicum (Basil) 910. 13340 Oldenlandia corpmbosa var. corpmbosa 911. 6861 Operantina sequispealla 912. 2382 Opilia amentacea 913. 104 Pandratus sprains (Screwpine, Wakim) 914. 503 Panicum decampositum (Inative Millet, Kaltu-kaltu) 915. 523 Paspalidium ranum (Fare Paspalidium) 916. 533 Paspalidium ranum (Fare Paspalidium) 917. 5226 Passilion feoting (Stalning Passon Flower) 918. 13570 Pareste kimberineyana 919. 33482 Pallophonum pierocorpum 92. 1456 Perotis rara (Corner Grass) 921. 546 Perotis rara (Corner Grass) 922. 2263 Persoonia falcata (Wild Pear, Gandela) 923. 4673 Phyllanthus senalus 924. 17704 Phyllanthus senalus 925. 13927 Phyllanthus senalus 926. Pilea microphylla 927. 1045 Pilea israniolos (Water Lutuce) 928. 43944 Pilchea kropisea 929. 8168 Pilchea rubellifora 929. 8168 Pilchea rubellifora 930. 2898 Polycapaea corymbosa 931. 2003 Polycapaea (orymbosa 931. 2003 Polycapaea (orymbosa 932. 4577 Polygala terpori 933. 6653 Polymania amilipus (Morning Glory) 934. 41444 Polymania amilipus (Morning Glory) 935. 2881 Portulaca rapidorius 940. 1807 Perylante aucunitant (Maghingrikat) 941. 2707 Piletus alaratus ur. tenella 942. 271 Pilotus exalatus (Tall Mulla Mulla) 943. 2737 Piletus lantaus ur. tenella 944. 2747 Piletus alaratus ur. tenella 945. 3061 Raphanus raphanistrum (Wild Radish) 946. 275 Piletus exalatus (Tall Mulla Mulla) 947. 4100 Rityrrchosia australis (Rityrchosia)						
908. 4474 Colmum americanum 909. 6807 Ocimum basilicum (Basil) 911. 3340 Oldenianda corymbosa var. corymbosa 911. 6651 Operculina sequisepale 912. 2362 Opilia mentancea 913. 104 Pandanus sprinis (Correspine, Wakim) 914. 503 Pantanus sprinis (Correspine, Wakim) 915. 503 Paspalidium ranum (Rare Paspalidium) 916. 503 Paspalidium ranum (Rare Paspalidium) 917. 5226 Passalidium ranum (Rare Paspalidium) 918. 13570 Pavetta kimberleyana 919. 13570 Pavetta kimberleyana 919. 13570 Pavetta kimberleyana 920. 17320 Peperomia pellucide 921. 546 Perotis rare (Corret Grass) 922. 222 528 Perosonia factasi (Wide Pear, Gandala) 923. 4673 Phyllanthus amanus 924. 41734 Phyllanthus amanus 925. 13927 Phyllanthus tenellus 926. Pilea microphylla 927. 1445 Risia straiotos (Water Lettuce) 928. 43944 Pluchea longisota 930. 2898 Polycarpaea corymbosa 931. 2903 Polycarpaea corymbosa 932. 4577 Polypala tepperi 933. 6653 Polymenia ambigua (Merning Clory) 934. 41644 Polymenia ambigua (Merning Clory) 935. 2881 Portulea alificialia 937. 2884 Portulea alificialia 938. 2886 Portulea alificialia 939. 2888 Polycarpaea corymbosa 931. 2809 Polycarpaea corymbosa 932. 2881 Portulea alificialia 933. 2884 Portulea alificialia 944. 1444 Polymenia ambigua (Merning Clory) 955. 2881 Portulea alificialia 940. 1807 Psydrax attenuasa var. tenella 941. 2704 Pillotta calosacty (Glaringa Kala) 942. 2714 Pillotta calosacty (Glaringa Kala) 943. 2737 Pillotta inatus 944. 2715 Pillotta palosaci (Tall Mulla Mulla) 945. 3001 Raphanus raphanistum (Widi Raddish) 946. 5295 Pillotta palosaci (Tall Mulla Mulla) 947. 4190 Pillotta inatus						
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913. 104 Pandanus spiralis (Screwpine, Wakirri) 914. 503 Panicum decompositum (Native Millet, Kaltu-kaltu) 915. 523 Paspaldium raym (Rar Paspalidium) 916. 533 Paspaldium raym (Rar Paspalidium) 917. 522e Pasasifiran feorida (Stinking Passion Flower) 918. 13570 Pavetta kimberleyana 919. 33482 Peltophorum pleroccarpum Y 920. 17320 Peperomia pellucidia Y 921. 548 Perotis rara (Comet Grass) 922. 2263 Persoonia falosala (Wild Pear, Gandala) 923. 4673 Phylianthus amarus Y 924. 17794 Phylianthus simarus Y 925. 13922 Phylianthus vinaria 926. Plea microphylia 927. 1045 Pistia stratiotes (Water Lettuce) Y 928. 43944 Pluchea longisetta 929. 8188 Pluchea nubellitiora 930. 2898 Polycarpaea corymbosa 931. 2003 Polycarpaea (parglitora 932. 4577 Polygala tepperi 933. 6653 Polymeria ambigua (Morning Glory) 934. 41644 Polymeria sp. Broome (K.F. Kanneally 9759) 935. 2881 Portulaca fillicilia 937. 2888 Portulaca rapiformis 938. 2888 Portulaca (Pistanea (Vakalt) 939. 2888 Polycarpaea (Organgara) Y 939. 2888 Polycarpaea (Pistanea (Vakalt) 939. 2888 Polycarpaea (Pistanea (Vakalt) 931. 2889 Polycarpaea (Pistanea (Vakalt) 932. 4577 Polygala tepperi 933. 6653 Polymeria ambigua (Morning Glory) 934. 41644 Polymeria sp. Broome (K.F. Kanneally 9759) 935. 2881 Portulaca pilosa (Qianggara) Y 937. 2884 Portulaca pilosa (Qianggara) Y 938. 6753 Prenna acuminata (Najalinginkal) 940. 18207 Psydrax attenuata var. tenella 941. 2704 Pititus calosachyus (Weelprig Mulla Mulla) 942. 2721 Pititus calosachyus (Weelprig Mulla Mulla) 943. 3061 Raphanus raphanistrum (Wild Radisri) 944. 2751 Pititus calosachyus (Princo of Wales Feather) 945. 3061 Raphanus raphanistrum (Wild Radisri) 947. 4190 Rhynchosia australis (Rhynchosia)						
914. 503 Panicum decompositum (Native Millot, Kaltu-kaltu) 915. 523 Paspalidium ranum (Rare Paspalidium) 916. 533 Paspalidium ranum (Rare Paspalidium) 917. 5226 Passiltora footdia (Stinking Passion Flower) 918. 13570 Pavetta kimberleyana 919. 33482 Pellophorum pierocarpum 920. 17320 Peperomia pellucida 921. 548 Perotis rana (Comer Grass) 922. 223 Persoonia falcata (Wild Pear, Gandala) 923. 4673 Phyllanthus samus 924. 17794 Phyllanthus samus 925. 13927 Phylanthus surinaria 926. Pilea microphylla 927. 1045 Pista stratiotics (Water Lettuce) 928. 43944 Piuchea longiseta 929. 43944 Piuchea longiseta 920. 2898 Polycarpaea corymbosa 931. 2903 Polycarpaea (ongillora 932. 4877 Polygala terponi 933. 6653 Polymeria ambigua (Morning Glory) 934. 41644 Polymeria sp. Broome (K.F. Kenneally 9759) 935. 2881 Portulaca niglicilia 936. 2881 Portulaca niglicilia 937. 2884 Portulaca pilica (Oringgiara) 938. 2888 Portulaca pilica (Oringgiara) 939. 4104 Pilotus existanica (Waltalia) 940. 2888 Portulaca oleracea (Purslane, Wakati) 941. 2704 Pilotus existanicus (Tall Mulla Mulla) 942. 2721 Pilotus existanicus (Tall Mulla Mulla) 943. 2737 Pilotus existanicus (Tall Mulla Mulla) 944. 2751 Pilotus existanicus (Tall Mulla Mulla) 945. 3061 Raphanus raphanistrum (Wild Radish) 946. 5256 Rincophora stylosa (Spotted-leaved Red Mangrove) 947. 4190 Rhynchosia australis (Rhynchosia)						
915. 523 Paspalidium rarum (Rare Paspalidium) 916. 533 Paspalum vaginatum (Salt Water Couch) 917. 5226 Passilmo Taofald (Sinking Passion Flower) 918. 13570 Pavetta kimberleyana 919. 33482 Peltophorum pierocarpum 920. 17320 Peperomia pellucida 921. 546 Perois rara (Comet Grass) 922. 2263 Persoonia falucata (Wild Pear, Gandala) 923. 4673 Phyllianthus amarus 924. 17794 Phyllianthus tenellus 925. 13927 Phyllianthus urinaria 926. Piloa microphylla 927. 1045 Pistia stratiotas (Water Lettuce) 927. 1045 Pistia stratiotas (Water Lettuce) 929. 8168 Pluchea rubellillora 930. 2989 Polycarpaea corymbosa 931. 2990 Polycarpaea corymbosa 932. 4577 Polygala tepperi 933. 6653 Polymeria ambigua (Morning Glory) 934. 4164 Polymeria sp. Broome (K.F. Kenneally 9759) 935. 2881 Portulaca filifolia 936. 2883 Portulaca napilormia 937. 2884 Portulaca olireace (Purslane, Wakati) 938. 2886 Portulaca polisoca (Purslane, Wakati) 939. 6735 Premna acuminata (Ryalinginkal) 940. 18207 Psydrax attenuata var. tenella 941. 2721 Pillotus scalatastus (Tall Mulla Mulla) 942. 2721 Pillotus scalatastus (Pinnoc of Wales Feather) 945. 3061 Raphanus raphanistum (Wild Radish) 946. 5295 Rhizophora sistralis (Rhynchosia)						
916. 533 Paspalum vaginatum (Salt Water Couch) 917. 5226 Passiflora feedda (Stirking Passion Flower) 918. 13570 Pareta kimberlegana 919. 33482 Peltophorum pterocarpum 920. 17320 Peperomia pellucida 921. 546 Perotis rara (Comet Grass) 922. 2263 Persoonia falcata (Wild Pear, Gandala) 923. 4673 Phyllanthus amarus 924. 17794 Phyllanthus tenellus 925. 13927 Phyllanthus uninaria 926. 13927 Phyllanthus uninaria 927. 1045 Pistia stratiotes (Water Lettuce) 928. 43944 Pluchea longiseta 929. 8168 Pluchea rubeillifora 930. 2898 Polyvarpaea corymbosa 931. 2903 Polyvarpaea orymbosa 931. 2903 Polyvarpaea orymbosa 931. 2903 Polyvarpaea longillora 932. 4577 Polygala tepperi 933. 6653 Polymeria ambigua (Morning Glory) 934. 41644 Polymeria sp. Broome (K.F. Kenneally 9759) 935. 2881 Portulaca fillifolia 936. 2883 Portulaca napitornis 937. 2884 Portulaca olisrocae (Purslane, Wakati) 938. 2886 Portulaca pilorae (Purslane, Wakati) 939. 6735 Premna acuminata (Ryalinginkal) 940. 18207 Psydrax attenuata vut: nenlia 941. 2704 Pillotus calostachyus (Princo of Wales Feather) 945. 3061 Raphanus raphanistrum (Wild Radish) 947. 4190 Rhynchosia australis (Rhynchosia)						
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938. 2886 Portulaca pilosa (Djanggara) Y 939. 6735 Premna acuminata (Ngalinginkal) 940. 18207 Psydrax attenuata var. tenella 941. 2704 Ptilotus calostachyus (Weeping Mulla Mulla) 942. 2721 Ptilotus exaltatus (Tall Mulla Mulla) 943. 2737 Ptilotus lanatus 944. 2751 Ptilotus polystachyus (Prince of Wales Feather) 945. 3061 Raphanus raphanistrum (Wild Radish) Y 946. 5295 Rhizophora stylosa (Spotted-leaved Red Mangrove) 947. 4190 Rhynchosia australis (Rhynchosia)	936.	2883	Portulaca napiformis			
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939. 6735 Premna acuminata (Ngalinginkal) 940. 18207 Psydrax attenuata var. tenella 941. 2704 Ptilotus calostachyus (Weeping Mulla Mulla) 942. 2721 Ptilotus exaltatus (Tall Mulla Mulla) 943. 2737 Ptilotus lanatus 944. 2751 Ptilotus polystachyus (Prince of Wales Feather) 945. 3061 Raphanus raphanistrum (Wild Radish) Y 946. 5295 Rhizophora stylosa (Spotted-leaved Red Mangrove) 947. 4190 Rhynchosia australis (Rhynchosia)	938.	2886	Portulaca pilosa (Djanggara)	Υ		
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945. 3061 Raphanus raphanistrum (Wild Radish) Y 946. 5295 Rhizophora stylosa (Spotted-leaved Red Mangrove) 947. 4190 Rhynchosia australis (Rhynchosia)						
946. 5295 Rhizophora stylosa (Spotted-leaved Red Mangrove) 947. 4190 Rhynchosia australis (Rhynchosia)				Υ		
947. 4190 Rhynchosia australis (Rhynchosia)						
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	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
948.		Rhynchosia minima (Rhynchosia)			
949.		Ruellia tuberosa	Y		
950. 951.	30434	Salsola australis Santalum album			
952.	2357	Santalum lanceolatum (Northern Sandalwood, Yarnguli)			
953.		Scaevola parvifolia subsp. parvifolia			
954.	599	Schizachyrium fragile (Senale Redgrass)			
955.	1027	Scleria brownii			
956.		Sebdenia flabellata			
957. 958.		Senna costata			
959.		Senna glutinosa subsp. glutinosa Senna notabilis			
960.		Seringia exastia (Fringed fire-bush)		Т	
961.		Seringia katatona (Red dune fire-bush)		P3	
962.	46821	Seringia nephrosperma (Free carpel fire-bush)			
963.	31172	Sersalisia sericea (Nangi)			
964.		Sesbania cannabina (Sesbania Pea)			
965.	11235	Sesbania simpliciuscula var. fitzroyensis			
966. 967.	2010	Sesbania sp. Sesuvium portulacastrum			
968.		Setaria verticillata (Whorled Pigeon Grass)	Υ		
969.		Sida fibulifera (Silver Sida)			
970.	4979	Sida hackettiana			
971.	18150	Sida rohlenae subsp. occidentalis			
972.		Sida sp. Pindan (B.G. Thomson 3398)			
973.		Sida spinosa (Spiny Sida)			
974.		Solanum cunninghamii			
975. 976.		Solanum dioicum (Gilu) Solieria robusta			
977.		Soliva sessilis (Jo-jo, Onehunga Weed)	Υ		
978.		Sorghum interjectum			
979.		Sorghum stipoideum (Annual Sorghum)			
980.	28347	Spermacoce occidentalis			
981.		Spermacoce sp.			
982.		Spinifex longifolius (Beach Spinifex)			
983. 984.		Sporobolus australasicus (Fairy Grass) Sporobolus mitchellii (Ratstail Couch)			
985.		Sporobolus virginicus (Marine Couch)			
986.		Streptoglossa macrocephala			
987.	7103	Striga curviflora			
988.	12353	Stylosanthes hamata (Verano Stylo)	Υ		
989.		Stylosanthes scabra	Υ		
990.		Suaeda arbusculoides			
991. 992.		Surreya diandra Tamarindus indica (Tamarind)	Υ		
993.		Tecticornia halocnemoides (Shrubby Samphire)	·		
994.		Tecticornia halocnemoides subsp. tenuis			
995.		Tecticornia indica subsp. indica			
996.	33357	Tecticornia indica subsp. julacea			
997.		Tecticornia indica subsp. leiostachya (Samphire)			
998.		Tephrosia crocea (Bayrijood)			
999. 1000.		Tephrosia leptoclada Tephrosia remotiflora			
1001.		Tephrosia remounda Tephrosia rosea (Flinders River Poison, Bungoo'dah)			
1002.		Tephrosia rosea var. rosea			
1003.	4281	Tephrosia simplicifolia			
1004.	5303	Terminalia ferdinandiana (Mador)			
1005.		Terminalia kumpaja		P3	
1006.		Terminalia latipes			
1007. 1008.		Terminalia petiolaris (Masroorl) Thespesia populneoides (Laba)			
1008.		Tinospora smilacina (Snakevine, Oondala)			
1010.		Tolypiocladia calodictyon			
1011.		Tolypiocladia glomerulata			
1012.	44305	Trianthema pilosum			
1013.		Trianthema portulacastrum (Giant Pigweed)	Υ		
1014.		Trianthema triquetrum			
1015.		Tribulopis angustifolia Tribulos accidentalis (Parannial Caltron)			
1016. 1017.		Tribulus occidentalis (Perennial Caltrop) Tribulus terrestris (Caltrop)	Υ		
.017.	4000				
				New 1 Department	of .







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
1018.	6727	Trichodesma zeylanicum (Camel Bush, Kumbalin)			
1019.	8252	Tridax procumbens (Tridax, Tridax Daisy)	Υ		
1020.	13131	Triodia epactia			
1021.	691	Triodia microstachya			
1022.	17873	Triodia schinzii			
1023.	13468	Triumfetta pentandra	Υ		
1024.	715	Urochloa mosambicensis (Sabi Grass)	Υ		
1025.	718	Urochloa pubigera			
1026.	10865	Urochloa subquadripara			
1027.	7663	Velleia panduriformis (Cabbage Poison)			
1028.	4846	Ventilago viminalis (Supplejack, Barndaragu)			
1029.	48983	Vincetoxicum cinerascens			
1030.	5106	Waltheria indica			
1031.	725	Whiteochloa airoides			
1032.	728	Whiteochloa cymbiformis			
1033.	729	Xerochloa barbata (Rice Grass)			
1034.	730	Xerochloa imberbis (Rice Grass)			
1035.	732	Yakirra australiensis			
1036.	735	Yakirra pauciflora			
1037.	4847	Ziziphus mauritiana (Zornia)	Υ		
1038.	4327	Zornia chaetophora			
1039.	12679	Zornia muelleriana subsp. congesta			
1040.	12680	Zornia prostrata var. prostrata			
Protozoa					
1041.	39008	Diachea leucopodia			

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

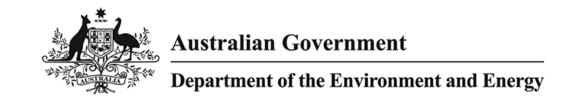




¹ For NatureMap's purposes, species flagged as endemic are those whose records are wholely contained within the search area. Note that only those records complying with the search criterion are included in the calculation. For example, if you limit records to those from a specific datasource, only records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



Appendix B - EPBC Protected Matters Search Report



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: 13/02/19 23:10:42

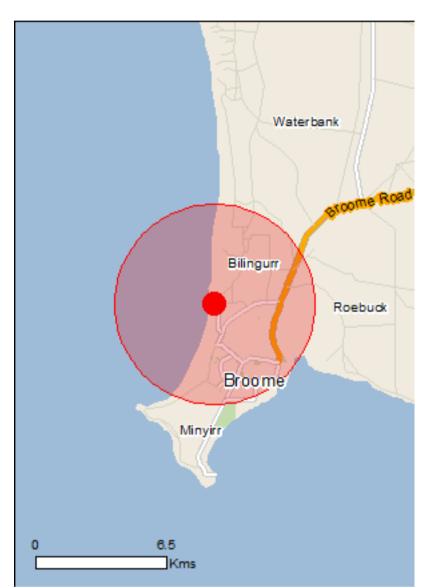
Summary

Details

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

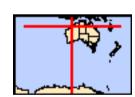
Caveat

<u>Acknowledgements</u>



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

Coordinates
Buffer: 5.0Km



Summary

Matters of National Environmental Significance

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

World Heritage Properties:	None
National Heritage Places:	1
Wetlands of International Importance:	1
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	1
Listed Threatened Species:	31
Listed Migratory Species:	65

Other Matters Protected by the EPBC Act

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

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

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

Commonwealth Land:	2
Commonwealth Heritage Places:	None
Listed Marine Species:	104
Whales and Other Cetaceans:	12
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:	4
Regional Forest Agreements:	None
Invasive Species:	12
Nationally Important Wetlands:	1
Key Ecological Features (Marine)	None

Details

Numenius madagascariensis

Eastern Curlew, Far Eastern Curlew [847]

Matters of National Environmental Significance

National Heritage Properties		[Resource Information]
Name	State	Status
Natural		
The West Kimberley	WA	Listed place
Wetlands of International Importance (Ramsar)		[Resource Information]
Name		Proximity
Roebuck bay		Within 10km of Ramsar

Liste	d Threatened	Ecological Communities	
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[Resource Information]

Species or species habitat known to occur within area

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.

produce indicative distribution maps.		
Name	Status	Type of Presence
Monsoon vine thickets on the coastal sand dunes of Dampier Peninsula	Endangered	Community likely to occur within area
Listed Threatened Species		[Resource Information]
Name	Status	Type of Presence
Birds		
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris tenuirostris Great Knot [862]	Critically Endangered	Foraging, feeding or related behaviour known to occur
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	within area Foraging, feeding or related behaviour known to occur within area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Foraging, feeding or related behaviour known to occur within area
Erythrura gouldiae Gouldian Finch [413]	Endangered	Species or species habitat may occur within area
<u>Limosa lapponica baueri</u> Bar-tailed Godwit (baueri), Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat known to occur within area
Limosa lapponica menzbieri Northern Siberian Bar-tailed Godwit, Bar-tailed Godwit (menzbieri) [86432]	Critically Endangered	Species or species habitat known to occur within area
and the second s		

Critically Endangered

Name	Status	Type of Presence
Papasula abbotti Abbott's Booby [59297]	Endangered	Species or species habitat may occur within area
Polytelis alexandrae Princess Parrot, Alexandra's Parrot [758]	Vulnerable	Species or species habitat likely to occur within area
Rostratula australis Australian Painted-snipe, Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
Tyto novaehollandiae kimberli Masked Owl (northern) [26048]	Vulnerable	Species or species habitat may occur within area
Mammals		
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Macrotis lagotis Greater Bilby [282]	Vulnerable	Species or species habitat known to occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Saccolaimus saccolaimus nudicluniatus Bare-rumped Sheath-tailed Bat, Bare-rumped Sheathtail Bat [66889]	Vulnerable	Species or species habitat likely to occur within area
Xeromys myoides Water Mouse, False Water Rat, Yirrkoo [66]	Vulnerable	Species or species habitat may occur within area
Plants		
Keraudrenia exastia Fringed Keraudrenia [66301]	Critically Endangered	Species or species habitat known to occur within area
Reptiles		
Aipysurus apraefrontalis Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat likely to occur within area
Caretta caretta		
Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Loggerhead Turtle [1763] Chelonia mydas Green Turtle [1765]	Endangered Vulnerable	behaviour known to occur
Chelonia mydas		behaviour known to occur within area Breeding known to occur
Chelonia mydas Green Turtle [1765] Ctenotus angusticeps Northwestern Coastal Ctenotus, Airlie Island Ctenotus [25937] Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Vulnerable	behaviour known to occur within area Breeding known to occur within area Species or species habitat
Chelonia mydas Green Turtle [1765] Ctenotus angusticeps Northwestern Coastal Ctenotus, Airlie Island Ctenotus [25937] Dermochelys coriacea	Vulnerable Vulnerable	behaviour known to occur within area Breeding known to occur within area Species or species habitat likely to occur within area Breeding likely to occur
Chelonia mydas Green Turtle [1765] Ctenotus angusticeps Northwestern Coastal Ctenotus, Airlie Island Ctenotus [25937] Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768] Eretmochelys imbricata	Vulnerable Vulnerable Endangered	within area Breeding known to occur within area Species or species habitat likely to occur within area Breeding likely to occur within area Breeding likely to occur
Chelonia mydas Green Turtle [1765] Ctenotus angusticeps Northwestern Coastal Ctenotus, Airlie Island Ctenotus [25937] Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768] Eretmochelys imbricata Hawksbill Turtle [1766] Natator depressus	Vulnerable Vulnerable Endangered Vulnerable	behaviour known to occur within area Breeding known to occur within area Species or species habitat likely to occur within area Breeding likely to occur within area Breeding likely to occur within area Breeding known to occur

Name	Status	Type of Presence
Pristis clavata Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area
Pristis pristis Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat known to occur within area
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442] Rhincodon typus	Vulnerable	Breeding known to occur within area
Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Listed Migratory Species		[Resource Information]
* Species is listed under a different scientific name on		
Name Migratory Marina Direla	Threatened	Type of Presence
Migratory Marine Birds Anous stolidus		
Common Noddy [825]		Species or species habitat likely to occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat known to occur within area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat known to occur within area
Fregata minor Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat known to occur within area
Sternula albifrons Little Tern [82849]		Breeding known to occur within area
Migratory Marine Species		
Anoxypristis cuspidata Narrow Sawfish, Knifetooth Sawfish [68448]		Species or species habitat likely to occur within area
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area
Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area

Name	Threatened	Type of Presence
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur
Dugong dugon	- J J	within area
Dugong [28]		Foraging, feeding or related behaviour known to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding likely to occur within area
Manta alfredi Reef Manta Ray, Coastal Manta Ray, Inshore Manta Ray, Prince Alfred's Ray, Resident Manta Ray [84994]		Species or species habitat may occur within area
Manta birostris Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		Species or species habitat may occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding known to occur
Orcaella heinsohni	Valificiable	within area
Australian Snubfin Dolphin [81322]		Species or species habitat known to occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat
ranor virialo, orda [10]		may occur within area
Pristis clavata Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area
Pristis pristis Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756] Pristis zijsron	Vulnerable	Species or species habitat known to occur within area
Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442] Rhincodon typus	Vulnerable	Breeding known to occur within area
Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Sousa chinensis Indo-Pacific Humpback Dolphin [50]		Breeding known to occur within area
Tursiops aduncus (Arafura/Timor Sea populations) Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat known to occur within area
Migratory Terrestrial Species		
Cecropis daurica Red-rumped Swallow [80610]		Species or species habitat known to occur within area
Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat known to occur within area
Hirundo rustica Barn Swallow [662]		Species or species habitat known to occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Motacilla flava Yellow Wagtail [644]		Species or species habitat known to occur within area
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area
Arenaria interpres Ruddy Turnstone [872]		Foraging, feeding or related behaviour known to occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Foraging, feeding or related behaviour known to occur within area
Calidris alba Sanderling [875]		Foraging, feeding or related behaviour known to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat known to occur within area
Calidris ruficollis Red-necked Stint [860]		Foraging, feeding or related behaviour known to occur within area
Calidris tenuirostris Great Knot [862]	Critically Endangered	Foraging, feeding or related behaviour known to occur within area
Charadrius bicinctus Double-banded Plover [895]		Foraging, feeding or related behaviour known to occur within area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<u>Charadrius mongolus</u> Lesser Sand Plover, Mongolian Plover [879]	Endangered	Foraging, feeding or related behaviour known to occur within area
Charadrius veredus Oriental Plover, Oriental Dotterel [882]		Foraging, feeding or related behaviour known to occur within area
Gallinago megala Swinhoe's Snipe [864]		Foraging, feeding or related behaviour likely to occur within area
Gallinago stenura Pin-tailed Snipe [841]		Foraging, feeding or related behaviour likely to occur within area
Glareola maldivarum Oriental Pratincole [840]		Foraging, feeding or related behaviour known to occur within area
Limicola falcinellus Broad-billed Sandpiper [842]		Foraging, feeding or related behaviour known to occur within area

Name	Threatened	Type of Presence
<u>Limnodromus semipalmatus</u>		
Asian Dowitcher [843]		Foraging, feeding or related behaviour known to occur within area
<u>Limosa lapponica</u>		
Bar-tailed Godwit [844]		Species or species habitat known to occur within area
<u>Limosa limosa</u> Black-tailed Godwit [845]		Foraging, feeding or related behaviour known to occur within area
Numenius madagascariensis		
Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Numenius minutus		
Little Curlew, Little Whimbrel [848]		Foraging, feeding or related behaviour known to occur within area
Numenius phaeopus		
Whimbrel [849]		Foraging, feeding or related behaviour known to occur within area
Pandion haliaetus		
Osprey [952]		Breeding known to occur within area
Pluvialis fulva		
Pacific Golden Plover [25545]		Foraging, feeding or related behaviour known to occur within area
Pluvialis squatarola		
Grey Plover [865] <u>Tringa brevipes</u>		Foraging, feeding or related behaviour known to occur within area
Grey-tailed Tattler [851]		Foraging fooding or related
		Foraging, feeding or related behaviour known to occur within area
Tringa glareola Wood Sandpiper [820]		Earaging fooding or related
Wood Sandpiper [829] <u>Tringa nebularia</u>		Foraging, feeding or related behaviour known to occur within area
Common Greenshank, Greenshank [832]		Species or species habitat
Common Greenshank, Greenshank [632]		Species or species habitat known to occur within area
Tringa stagnatilis		
Marsh Sandpiper, Little Greenshank [833]		Foraging, feeding or related behaviour known to occur within area
Tringa totanus Common Rodohank Rodohank [925]		Earaging fooding or related
Common Redshank, Redshank [835] Xenus cinereus		Foraging, feeding or related behaviour known to occur within area
Terek Sandpiper [59300]		Foraging, feeding or related
rerek Gariupiper [08000]		behaviour known to occur within area

within area

Other Matters Protected by the EPBC Act

Commonwealth Land [Resource Information]

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

Name

Commonwealth Land - Defence - BROOME TRAINING DEPOT		
Listed Marine Species		[Resource Information]
* Species is listed under a different scientific name on t	he EPBC Act - Threatened	Species list.
Name	Threatened	Type of Presence
Birds		
Actitis hypoleucos		
Common Sandpiper [59309]		Species or species habitat known to occur within area
Anous stolidus		
Common Noddy [825]		Species or species habitat likely to occur within area
Anseranas semipalmata		
Magpie Goose [978]		Species or species habitat may occur within area
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
Arenaria interpres		
Ruddy Turnstone [872]		Foraging, feeding or related
		behaviour known to occur within area
Calidris acuminata		Fanania a faradia a annalata d
Sharp-tailed Sandpiper [874]		Foraging, feeding or related behaviour known to occur within area
Calidris alba		Caragina fooding or related
Sanderling [875]		Foraging, feeding or related behaviour known to occur within area
Calidris canutus Ped Knot Knot (955)	Endangarad	Species or appaies habitat
Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos		

Pectoral Sandpiper [858] Species or species habitat known to occur within area

Calidris ruficollis

Red-necked Stint [860] Foraging, feeding or related behaviour known to occur within area

Calidris tenuirostris

Great Knot [862] Critically Endangered Foraging, feeding or related

behaviour known

Name	Threatened	Type of Presence
		to occur within area
<u>Calonectris leucomelas</u>		
Streaked Shearwater [1077]		Species or species habitat known to occur within area
Charadrius bicinctus		
Double-banded Plover [895]		Foraging, feeding or related behaviour known to occur within area
<u>Charadrius leschenaultii</u>		
Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Charadrius mongolus		
Lesser Sand Plover, Mongolian Plover [879]	Endangered	Foraging, feeding or related behaviour known to occur within area
Charadrius ruficapillus De de agrandel Discon [2001]		
Red-capped Plover [881] Charadrius veredus		Foraging, feeding or related behaviour known to occur within area
		Foraging, feeding or related
Oriental Plover, Oriental Dotterel [882]		behaviour known to occur within area
Chrysococcyx osculans Black-pared Cucken [705]		Charina or angoing habitat
Black-eared Cuckoo [705]		Species or species habitat known to occur within area
Fregata ariel		
Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat known to occur within area
Fregata minor		
Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat known to occur within area
Gallinago megala		
Swinhoe's Snipe [864]		Foraging, feeding or related behaviour likely to occur within area
Gallinago stenura		
Pin-tailed Snipe [841] Glareola maldivarum		Foraging, feeding or related behaviour likely to occur within area
Oriental Pratincole [840]		Foraging, feeding or related
		behaviour known to occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat
vville-bellied Sea-Lagle [943]		known to occur within area
Heteroscelus brevipes		
Grey-tailed Tattler [59311]		Foraging, feeding or related behaviour known to occur within area
Himantopus himantopus		— • • • • • • • • • • • • • • • • • • •
Pied Stilt, Black-winged Stilt [870] Hirundo daurica		Foraging, feeding or related behaviour known to occur within area
Red-rumped Swallow [59480]		Species or species habitat known to occur within area
Hirundo rustica Barn Swallow [662]		Species or species habitat known to occur within area
<u>Limicola falcinellus</u> Broad-billed Sandpiper [842]		Foraging, feeding or related
		behaviour known to occur within area

Name	Threatened	Type of Presence
<u>Limnodromus semipalmatus</u>		
Asian Dowitcher [843]		Foraging, feeding or related
Asian Downshier [040]		behaviour known to occur
		within area
<u>Limosa lapponica</u>		within area
• •		Consiss or appairs babitat
Bar-tailed Godwit [844]		Species or species habitat
		known to occur within area
Limana limana		
<u>Limosa limosa</u>		
Black-tailed Godwit [845]		Foraging, feeding or related
		behaviour known to occur
Marana areatus		within area
Merops ornatus		
Rainbow Bee-eater [670]		Species or species habitat
		may occur within area
Motacilla cinerea		
		Charles or angeles babitet
Grey Wagtail [642]		Species or species habitat
		may occur within area
Motacilla flava		
		Charles or angeles habitat
Yellow Wagtail [644]		Species or species habitat known to occur within area
		Known to occur within area
Numenius madagascariensis		
Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat
Lastern Ganew, Far Lastern Ganew [647]	Offically Endangered	known to occur within area
		Known to occur within area
Numenius minutus		
Little Curlew, Little Whimbrel [848]		Foraging, feeding or related
Entito Garlow, Entito Williams of [O 10]		behaviour known to occur
		within area
Numenius phaeopus		William Grou
Whimbrel [849]		Foraging, feeding or related
William Control		behaviour known to occur
		within area
Pandion haliaetus		
Osprey [952]		Breeding known to occur
		within area
Papasula abbotti		
Abbott's Booby [59297]	Endangered	Species or species habitat
1		may occur within area
		,
Pluvialis fulva		
Pacific Golden Plover [25545]		Foraging, feeding or related
		behaviour known to occur
		within area
Pluvialis squatarola		
Grey Plover [865]		Foraging, feeding or related
		behaviour known to occur
		within area
Recurvirostra novaehollandiae		
Red-necked Avocet [871]		Foraging, feeding or related
		behaviour known to occur
		within area
Rostratula benghalensis (sensu lato)		
Painted Snipe [889]	Endangered*	Species or species habitat
		likely to occur within area
Storna albifrana		
Sterna albifrons		Duo callo ar lar accorde
Little Tern [813]		Breeding known to occur
Tringa glareola		within area
Wood Sandpiper [829]		Foraging, feeding or related
		behaviour known to occur
Tringa nebularia		within area
		Spaciae or epociae babitat
Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area
		KIIOWII IO OCCUI WILIIIII AIEA
Tringa stagnatilis		
Marsh Sandpiper, Little Greenshank [833]		Foraging, feeding or related
maron Janapipor, Little Orcenshank [000]		behaviour known
		S.I.STIONI MIOWII

Name	Threatened	Type of Presence
Tringo totonuo		to occur within area
Tringa totanus Common Redshank, Redshank [835]		Foraging, feeding or related behaviour known to occur within area
Xenus cinereus Terek Sandpiper [59300]		Foraging, feeding or related behaviour known to occur within area
Fish		
Campichthys tricarinatus		
Three-keel Pipefish [66192]		Species or species habitat may occur within area
Choeroichthys brachysoma Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194]		Species or species habitat may occur within area
Choeroichthys suillus Pig-snouted Pipefish [66198]		Species or species habitat may occur within area
Corythoichthys flavofasciatus Reticulate Pipefish, Yellow-banded Pipefish, Network Pipefish [66200]		Species or species habitat may occur within area
Cosmocampus banneri Roughridge Pipefish [66206]		Species or species habitat may occur within area
Doryrhamphus excisus Bluestripe Pipefish, Indian Blue-stripe Pipefish, Pacific Blue-stripe Pipefish [66211]		Species or species habitat may occur within area
Doryrhamphus janssi Cleaner Pipefish, Janss' Pipefish [66212]		Species or species habitat may occur within area
Filicampus tigris Tiger Pipefish [66217]		Species or species habitat may occur within area
Halicampus brocki Brock's Pipefish [66219]		Species or species habitat may occur within area
Halicampus grayi Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area
Halicampus nitidus Glittering Pipefish [66224]		Species or species habitat may occur within area
Halicampus spinirostris Spiny-snout Pipefish [66225]		Species or species habitat may occur within area
Haliichthys taeniophorus Ribboned Pipehorse, Ribboned Seadragon [66226]		Species or species habitat may occur within area
Hippichthys penicillus Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area
Hippocampus histrix Spiny Seahorse, Thorny Seahorse [66236]		Species or species habitat may occur within area
Hippocampus kuda Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within

Name	Threatened	Type of Presence
		area
Hippocampus planifrons Flat-face Seahorse [66238]		Species or species habitat may occur within area
Hippocampus spinosissimus Hedgehog Seahorse [66239]		Species or species habitat may occur within area
Hippocampus trimaculatus Three-spot Seahorse, Low-crowned Seahorse, Flat-faced Seahorse [66720]		Species or species habitat may occur within area
Micrognathus micronotopterus Tidepool Pipefish [66255]		Species or species habitat may occur within area
Solegnathus hardwickii		
Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area
Solegnathus lettiensis Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area
Solenostomus cyanopterus Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]		Species or species habitat may occur within area
Syngnathoides biaculeatus Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area
Trachyrhamphus bicoarctatus Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area
<u>Trachyrhamphus longirostris</u> Straightstick Pipefish, Long-nosed Pipefish, Straight Stick Pipefish [66281]		Species or species habitat may occur within area
Mammals		
Dugong dugon		
Dugong [28]		Foraging, feeding or related behaviour known to occur within area
Reptiles		
Acalyptophis peronii Horned Seasnake [1114]		Species or species habitat may occur within area
Aipysurus apraefrontalis Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat likely to occur within area
Aipysurus duboisii Dubois' Seasnake [1116]		Species or species habitat may occur within area
Aipysurus eydouxii Spine-tailed Seasnake [1117]		Species or species habitat may occur within area
Aipysurus laevis Olive Seasnake [1120]		Species or species habitat may occur within area
Aipysurus tenuis Brown-lined Seasnake [1121]		Species or species habitat may occur within area
Astrotia stokesii Stokes' Seasnake [1122]		Species or species

Name	Threatened	Type of Presence
		habitat may occur within
Caretta caretta		area
Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area
Crocodylus johnstoni Freshwater Crocodile, Johnston's Crocodile, Johnston's River Crocodile [1773]		Species or species habitat may occur within area
Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area
Dermochelys coriacea		
Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
Disteira kingii Spectacled Seasnake [1123]		Species or species habitat may occur within area
Disteira major Olive-headed Seasnake [1124]		Species or species habitat may occur within area
Emydocephalus annulatus		
Turtle-headed Seasnake [1125]		Species or species habitat may occur within area
Ephalophis greyi North-western Mangrove Seasnake [1127]		Species or species habitat may occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding likely to occur within area
Hydrelaps darwiniensis Black-ringed Seasnake [1100]		Species or species habitat may occur within area
Hydrophis elegans Elegant Seasnake [1104]		Species or species habitat may occur within area
Hydrophis mcdowelli null [25926]		Species or species habitat may occur within area
Hydrophis ornatus Spotted Seasnake, Ornate Reef Seasnake [1111]		Species or species habitat may occur within area
Lapemis hardwickii Spine-bellied Seasnake [1113]		Species or species habitat may occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area
Pelamis platurus Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area
Whales and other Cetaceans		[Resource Information]
Name	Status	Type of Presence
Mammals		
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within

Name	Status	Type of Presence
Ivaille	Status	area
Balaenoptera musculus		urou
Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
<u>Delphinus delphis</u> Common Dophin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
Grampus griseus		
Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area
Megaptera novaeangliae		
Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Orcaella brevirostris		
Irrawaddy Dolphin [45]		Species or species habitat known to occur within area
Orcinus orca		
Killer Whale, Orca [46]		Species or species habitat may occur within area
Sousa chinensis		
Indo-Pacific Humpback Dolphin [50]		Breeding known to occur within area
Stenella attenuata		
Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area
<u>Tursiops aduncus</u>		
Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area
Tursiops aduncus (Arafura/Timor Sea populations)		
Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat known to occur within area
Tursiops truncatus s. str.		
Pottlonges Delphin [69417]		Charles or appoint habitat

Bottlenose Dolphin [68417] Species or species habitat may occur within area

Extra Information

State and Territory Reserves	[Resource Information]
Name	State
Broome Wildlife Centre	WA
Unnamed WA51162	WA
Unnamed WA51497	WA
Unnamed WA52354	WA

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		

Name	Status	Type of Presence
Columba livia		
Rock Pigeon, Rock Dove, Domestic Pigeon [803]	Species or species habitat likely to occur within area
Sturnus vulgaris		
Common Starling [389]		Species or species habitat
		likely to occur within area
Frogs		
Rhinella marina		
Cane Toad [83218]		Species or species habitat may occur within area
Mammals		
Canis lupus familiaris		
Domestic Dog [82654]		Species or species habitat likely to occur within area
Felis catus		
Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Mus musculus		
House Mouse [120]		Species or species habitat likely to occur within area
Rattus rattus		
Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
Plants		
Cenchrus ciliaris		
Buffel-grass, Black Buffel-grass [20213]		Species or species habitat likely to occur within area
Dolichandra unguis-cati		
Cat's Claw Vine, Yellow Trumpet Vine, Cat's Cla Creeper, Funnel Creeper [85119]	W	Species or species habitat likely to occur within area
Jatropha gossypifolia		
Cotton-leaved Physic-Nut, Bellyache Bush, Cotto	on-leaf	Species or species habitat
Physic Nut, Cotton-leaf Jatropha, Black Physic N		likely to occur within area
[7507]	. •••	
Reptiles		
Hemidactylus frenatus		
Asian House Gecko [1708]		Species or species habitat likely to occur within area
Ramphotyphlops braminus		
Flowerpot Blind Snake, Brahminy Blind Snake, C Besi [1258]	Cacing	Species or species habitat known to occur within area
Nationally Important Wetlands		[Resource Information]
Name		State
Poobuck Ray		١٨/٨

WA

Roebuck Bay

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

-17.93041 122.21074

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.



Appendix C - Flora Species within each Recorded Relevé

*denotes introduced (weed) species #denotes non-endemic species (planted)

Family		Species	R01	R02	R03	R04
Apocynaceae		Carissa lanceolata	+			
Boraginaceae		Trichodesma zeylanicum				+
Casuarinaceae	#	Casuarina obesa			+	
Cleomaceae		Cleome sp.	+			
Convolvulaceae		<i>Ipomoea pes-caprae</i> subsp. <i>brasiliensis</i>	+		+	+
Fabaceae		Acacia ampliceps	+			
Fabaceae		Acacia colei var. colei	+	+		
Fabaceae		Canavalia rosea				+
Fabaceae		Crotalaria medicaginea var. neglecta				+
Fabaceae	*	Delonix regia	+			
Fabaceae	*	Senna occidentalis		+		
Hernandiaceae		Gyrocarpus americanus	+			
Malvaceae		Grewia breviflora	+			
Meliaceae	*	Azadirachta indica	+			
Myrtaceae		Corymbia sp.		+		
Nyctaginaceae		Boerhavia?dominii	+			
Passifloraceae	*	Passiflora foetida var. hispida	+	+		
Phyllanthaceae		Flueggea virosa subsp. melanthesoides	+			
Poaceae	*	Cenchrus ciliaris		+	+	+
Poaceae		Spinifex longifolius			+	+



Appendix D - Site Data

Site R01

Date 07/03/2019

Botanist Kellie Bauer-Simpson

Quadrat Size NA, relevé

NW Corner Coordinates 416381 mE 8017327 mN

SlopeGentleLandformLower slopeSoil ColourBrown

Soil Type Loamy sand

Litter 80% Bare Ground 1%

Fire Age >10years
Vegetation Condition Very Good
Disturbances/Impacts Some weeds

Vegetation Unit MVT

Thicket of *Gyrocarpus americanus, Grewia breviflora* and *Delonix regia, with various creeping vines, predominantly *Ipomoea pes-caprae* subsp. *brasiliensis.*





Name	Height (m)	Cover (%)
*Delonix regia	8	3
Gyrocarpus americanus	7	20
Grewia breviflora	4	15
Ipomoea pes-caprae subsp. brasiliensis	creeper	5
Acacia ampliceps		+
Acacia colei var. colei		+
*Azadirachta indica		+
Boerhavia?dominii		+
Carissa lanceolata		+
Cleome sp.		+
Flueggea virosa subsp. melanthesoides		+
*Passiflora foetida var. hispida		+



Site R02

Date 7/03/2019

Botanist Kellie Bauer-Simpson

Quadrat Size NA, relevé

NW Corner Coordinates 416438 mE 8017286 mN

Slope gentle
Landform Lower slope

Soil Colour Brown

Soil Type Clayey loamy sand

Litter25%Bare Ground40%Fire Age5-10years

Vegetation ConditionCompletely DegradedDisturbances/ImpactsClearing and weeds

Vegetation Unit PR

Previously cleared areas comprising weeds and disturbed regrowth, dominated by *Senna occidentalis* and *Cenchrus ciliaris*, with occasional planted (likely non-endemic) trees, including Corymbia sp..



Name	Height (m)	Cover (%)
Corymbia sp.	15	occasional
*Senna occidentalis	2	35
Acacia colei var. colei	1.5	3
*Cenchrus ciliaris	0.5	20
*Passiflora foetida var. hispida	creeper	4



Site R03

Date 7/03/2019

Botanist Kellie Bauer-Simpson

Quadrat Size NA, relevé

NW Corner Coordinates 416329 mE 8017212 mN

Slope Steep

LandformLower slopeSoil ColourPale brown

Soil TypesandLitter25%Bare Ground5%Fire Age>10years

Vegetation ConditionDegradedDisturbances/ImpactsWeedsVegetation UnitFD

Dense Hummock Grassland of *Spinifex longifolius* and **Cenchrus ciliaris* with *Ipomoea pes-caprae* subsp. brasiliensis.



Name	Height (m)	Cover (%)
Spinifex longifolius	0.6	50
*Cenchrus ciliaris	0.4	10
Ipomoea pes-caprae subsp. brasiliensis	creeper	10
#Casuarina obesa	4	occasional



Site R04

Date 7/03/2019

Botanist Kellie Bauer-Simpson

Quadrat Size NA, relevé

NW Corner Coordinates 416350 mE 8017634 mN

Slope Steep Landform Mid slope **Soil Colour** Orange **Soil Type** Sand Litter 25% **Bare Ground** 10% Fire Age >10years **Vegetation Condition** Degraded

Disturbances/Impacts Weeds and erosion

Vegetation Unit HD

Dense Hummock Grassland of *Spinifex longifolius* and **Cenchrus ciliaris* with Dwarf Scrub D of *Trichodesma zeylanicum* and *Crotalaria medicaginea* var. *neglecta,* with creeping vines, predominantly *Ipomoea pes-caprae* subsp. *brasiliensis* and *Canavalia rosea*.



Name	Height (m)	Cover (%)
Spinifex longifolius	0.7	65
Trichodesma zeylanicum	0.6	8
*Cenchrus ciliaris	0.5	15
Crotalaria medicaginea var. neglecta	0.5	3
Ipomoea pes-caprae subsp. brasiliensis	creeper	5
Canavalia rosea	creeper	2



Appendix E - Monsoon Vine Thicket TEC Characteristic Species List (DSEWPaC 2013)

NB: This is an indicative rather than comprehensive list of plant species present in the ecological community. Patches may not include all species on the lists or may include other species not listed. Scientific names are current as at August 2012. Sources: Kenneally *et al.*, 1991; McKenzie *et al.*, 1991; Kenneally *et al.*, 1996; Lands, 1997; Black *et al.*, 2010; DEC, unpublished.

Acadis tumida	Scientific name	Common name
Atalaya hemiglauca Malaya variifolia Bauhinia cunninghamii Bauhinia jugal, joom Bardyhchton diversifolius subsp, diversifolius dalalab, gorrgorr, kawoorrkaworr, northern kurrajong. Canarium australianum Celtis philippensis goonlinji Corymbia bella weeping ghost gum Dampier's bloodwood Corymbia greeniana Corymbia genata Corymbia gopaca Corymbia polycapa long fruited bloodwood long fr		
Atalaya hemiglauca Malaya variifolia Bauhinia cunninghamii Bauhinia jugal, joom Bardyhchton diversifolius subsp, diversifolius dalalab, gorrgorr, kawoorrkaworr, northern kurrajong. Canarium australianum Celtis philippensis goonlinji Corymbia bella weeping ghost gum Dampier's bloodwood Corymbia greeniana Corymbia genata Corymbia gopaca Corymbia polycapa long fruited bloodwood long fr		wongai
Atalaya variifolia wingleaf whitewood Bauhinia cunninghamii and ana cunninghamii an		
Bauhinia cunninghamii Bauhinia, jigal, joom Brachychiton diversifolius subsp, diversifolius darlab, gorrgorr, kawoorrkaworr, northern kurrajong, Canarium australianum styptic tree Corymbia bella weeping ghost gum Corymbia greeniana Dampier's bloodwood Corymbia opaca Corymbia polycapa Corymbia polycapa long fruited bloodwood Cupaniopsis anacardioides tuckeroo Diospyros humilis ebony wood, birimbir Diospyros humilis phonyros martima Ehretia saligna native willow, peachwood Enythrophleum chlorostachys ironwood Eucalyptus amartima woollybutt, manowan Eucalyptus aminiata woollybutt, manowan Eucalyptus sectifica Danvini box, grey box, Eucalyptus fectifica Danvini box, grey box, Eucalyptu	· · · ·	
Brachychiton diversifolius subsp. diversifolius Canarium australianum Calis philippensis Gombia bella Corymbia bella Corymbia flavescens Corymbia greeniana Dampier's bloodwood Corymbia polycarpa Corymbia polycarpa Longross maritima Ehretia saliona Ehretia saliona Eucalyptus camaldulensis subsp. obtusa Eucalyptus tectifica Eucalyptus tectifica Sandaper fig Ficus aculeata Ficus wirens Grevillea pyramidalis Grevila paramidanis Grevila paramidani	,	
Canarium australianum Celtis philippensis Goolniji Celtis philippensis Goolniji Corymbia flavescens Corymbia flavescens Corymbia greeniana Dampier's bloodwood Corymbia greeniana Corymbia popaca Corymbia polycarpa Lopaniopsis anacardioides Luckeroo Diospyros humilis Diospyros maritima Ehretia saligna Inative willow, peachwood Eucalyptus camaldulensis subsp. obtusa Eucalyptus ettifica Darwin box, grey box,		
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Panadanus spiraliscommon screwpine, idool, jarrmirdany, manbangParinari nondanondaPersoonia falcatagamaloon, geebung, ngarliwarny, wankirr, wild pearPittosporum moluccanumcocky apple, goolayPlanchonia careyacocky apple, goolayPremna acuminatafirestick treeSantalum lanceolatumtropical sandlewoodSersalisia sericeaMangarr, minyyuruSyzygium eucalyptoides subsp. bleeseriwild apple, iilarrTerminalia canescenswingnut treeTerminalia ferdinandianagabiny, gubinge, kabiny, madoor	Melaleuca dealbata	garnboorr
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Premna acuminatafirestick treeSantalum lanceolatumtropical sandlewoodSersalisia sericeaMangarr, minyyuruSyzygium eucalyptoides subsp. bleeseriwild apple, iilarrTerminalia canescenswingnut treeTerminalia ferdinandianagabiny, gubinge, kabiny, madoor	Pittosporum moluccanum	
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Syzygium eucalyptoides subsp. bleeseri wild apple, iilarr Terminalia canescens wingnut tree Terminalia ferdinandiana gabiny, gubinge, kabiny, madoor	Santalum lanceolatum	tropical sandlewood
Terminalia canescens wingnut tree Terminalia ferdinandiana gabiny, gubinge, kabiny, madoor	Sersalisia sericea	Mangarr, minyyuru
Terminalia ferdinandiana gabiny, gubinge, kabiny, madoor	Syzygium eucalyptoides subsp. bleeseri	wild apple, iilarr
Terminalia ferdinandiana gabiny, gubinge, kabiny, madoor	Terminalia canescens	•
	Terminalia ferdinandiana	gabiny, gubinge, kabiny, madoor
	Terminalia ferdinandiana x Terminalia petiolaris (hybrid)	



Scientific name	Common name
Trees continued	Common name
Terminalia petiolaris	blackberry tree, marool, narwulu
Thespesia populneoides	, and a second state of the second se
Ventilago viminalis	medicine bark, supplejack
Shrubs	mosnome sand subproject
Abutilon indicum	Indian lantern flower
Acacia bivenosa	Cable Beach wattle, dune wattle
Acacia colei	candelabra wattle, Cole's wattle, lirrirngkirn, limarrkoodkood,
ricacia corer	noomoorrgoodoord, soap wattle
Acacia eriopoda	Broome pindan wattle
Acacia monticola	red wattle
Acacia monticola Aff.	rea wattie
Acacia monticola att. Acacia platycarpa	ghost wattle
Acacia piatycaipa Acacia wickhamii	griost wattie
Adriana tomentosa var. hookeri	
Androcaloxophylla Brownia garava	
Breynia cernua	T
Bridelia tomentosa	amam Virelanday hagth tarday hagh
Calytrix exstipulata	Kimberley heath, turkey bush
Carissa spinarum	conkerberry
Caesalpinia major (also considered a climber)	Goolyi
Clerodendrum floribundum var. ovatum	
Clerodendrum tomentosum var. mollissima	
Codonocarpus cotinifolius	desert poplar
Crotalaria cunninghamii	green birdflower, minmin, oorlgoo, parrot pea
Croton habrophyllus	
Cullen martinii	
Cyperus bulbosus	bush onion, niarlboon, niyalboon, yarrinyarri
Diospyros rugosula	
Dodonaea hispidula	
Dodonaea platyptera	broad-winged hop bush
Flueggea virosa subsp. melanthesoides	goorralgar, goowal, snowball bush
Glycosmis sp.	
Gossypium australe	
Grevillea refracta	silverleaf grevillea
Grewia retusifolia	dog's balls, dysentery bush, turkey bush
Gyrostemon tepperi	
Helicteres rhynchocarpa	
Hibiscus apodus	yellow hibiscus
Hibiscus sp.	
Hypoestes floribunda var. varia	musk-scented plant
Keraudrenia exastia	fringed keraudrenia
Luvunga monophylla	,ges residence
Myoporum montanum	boobialla, gawar, native myrtle
Pavetta kimberleyana	2005 Idila, garrar, nauve myrae
Phyllanthus reticulatus	
Plumbago zeylanica	
Psydrax pendulina	
Senna costata	ram's horns
Sida hackettiana	
	golden rod
Sida rohlenae subsp. occidentalis	human language mankaass
Solanum cunninghamii	bunug, langgoorr, nankoorr
Tephrosia rosea	Flinders River poison
Triumfetta sp.	
Trophis scandens	



Scientific name Common name Climbers/Vines Abrus precatorius Adenia heterophylla subsp. australis Asparagus racemosus Asparagus racemosus asparagus fern Canavalia rosea Jack bean, beach bean Capparis Jacobsii aff. Capparis lasiantha Casyatha filiformis jirrawany, koodikoodi, wagalwagal Cucumis maderaspatanus Cynanchum carnosum Flagellaria indica lawyer vine, supplejack Gymnanthera oblonga harpoon bud Ipomoea pes-caprae subsp. brasiliensis beach morning glory Jacquemontia paniculata Jasminum didymum Operculina aequisepala Opilia amentacea Parsonsia kimberleyensis Sarcostemma sp. Sarcostemma viminale caustic vine, milkbush Secamone timoriensis rinospora smilacina
Abrus precatorius Crab's eye bean Adenia heterophylla subsp. australis Asparagus racemosus asparagus fern Canavalia rosea Jack bean, beach bean Capparis jacobsii aff. Capparis lasiantha bush caper Caspytha filiformis jirrawany, koodikoodi, wagalwagal Cucumis maderaspatanus Cynanchum carnosum Flagellaria indica lawyer vine, supplejack Gymnanthera oblonga harpoon bud Ipomoea pes-caprae subsp. brasiliensis beach morning glory Jacquemontia paniculata Jasminum didymum Operculina aequisepala Opilia amentacea Parsonsia kimberleyensis Sarcostemma sp. Sarcostemma viminale caustic vine, milkbush Secamone timoriensis Tinospora smilacina snake vine
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Canavalia rosea Jack bean, beach bean Capparis jacobsii aff. Capparis lasiantha bush caper Capparis sepiaria Cassytha filiformis jirrawany, koodikoodi, wagalwagal Cucumis maderaspatanus Cynanchum carnosum Flagellaria indica lawyer vine, supplejack Gymnanthera oblonga harpoon bud Ipomoea pes-caprae subsp. brasiliensis beach morning glory Jacquemontia paniculata Jasminum didymum Operculina aequisepala Opilia amentacea Parsonsia kimberleyensis Sarcostemma sp. Sarcostemma viminale caustic vine, milkbush Secamone timoriensis Tinospora smilacina snake vine
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Sarcostemma viminale caustic vine, milkbush Secamone timoriensis Tinospora smilacina snake vine
Secamone timoriensis Tinospora smilacina snake vine
Tinospora smilacina snake vine
Tylophora cinerascens oyster-catcher bill
Tylophora flexuosa
Vigna vexillata var. angustifolia wild cowpea
Hemiparasites (mistletoes)
Amyema benthamii
Amyema bifurcata
Amyema sanguinea var. sanguinea Christmas mistletoe
Cassytha capillaris (also considered a climber)
Cassytha filiformis
(also considered a climber)
Dendrophthoe acacioides subsp. acacioides
Lysiana spathulata subsp. spathulata
Santalum lanceolatum (also considered a tree)
Epiphytes
Cymbidium canaliculatum tree orchid
Herbs
Abutilon sp.
Achyranthes aspera chaff flower
Amaranthus sp.
Amaranthus undulatus (formerly A. pallidiflorus)
Boerhavia dominii tarvine
Boerhavia sp.
Cleome viscosa mustard bush, spider flower, tick weed, wild caia
indicate bush, spider newer, tiek weed, wild culd
Crotalaria crispata walkabout
Crotalaria crispata walkabout
Crotalaria crispatawalkaboutCrotalaria medicaginearattlepods
Crotalaria crispata walkabout Crotalaria medicaginea rattlepods Cucumis maderaspatanus (formerly Mukia Madras sea pumpkin, bristly Bryony
Crotalaria crispata walkabout Crotalaria medicaginea rattlepods Cucumis maderaspatanus (formerly Mukia maderaspatana) Euphorbia alsiniflora Gomphrena pusilla
Crotalaria crispata walkabout Crotalaria medicaginea rattlepods Cucumis maderaspatanus (formerly Mukia maderaspatana) Euphorbia alsiniflora Gomphrena pusilla Heliotropium sp.
Crotalaria crispata walkabout Crotalaria medicaginea rattlepods Cucumis maderaspatanus (formerly Mukia maderaspatana) Euphorbia alsiniflora Gomphrena pusilla



Scientific name	Common name		
Herbs continued			
Polycarpaea sp.			
Polymeria distigma			
Ptilotus lanatus var. lanatus			
Ptilotus nobilis subsp. nobilis	pink mulla mulla		
Ptilotus polystachyus	green mulla mulla, seedyhead		
Sida sp.			
Spermacoce auriculata			
Tacca leontopetaloides			
Tephrosia rosea	Flinders River poison		
Trianthema portulacastrum	giant pigweed		
Trichodesma zeylanicum	camel bush		
Graminoids (grasses and grass-like plants)			
Bulbostylis barbata	watergrass		
Cenchrus biflorus (N.B. This species is a bulbous perennial	Gallon's curse		
with annual leaves)			
Cenchrus elymoides			
Chrysopogon pallidus	ribbon grass		
Cymbopogon sp.			
Cyperus bulbosus			
Cyperus nervulosus			
Enneapogon pallidus	conetop nineawn		
Eragrostis cumingii	Cumings love grass		
Eriachne semiciliata			
Fimbristylis sp.			
Heteropogon contortus	black or bunch speargrass		
Perotis rara	comet grass		
Setaria apiculata	pigeon grass		
Spinifex longifolius	beach spinifex		
Triodia bitextura			
Triodia microstachya			
<i>Triodia</i> sp.			
Whiteochloa airoides	creeping panic		