

**Broome to Skuthorpe Line
Extension**

Flora and Fauna Survey

**Prepared for
Horizon Power**

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Executive Summary

Horizon Power commissioned 360 Environmental Pty Ltd (360 Environmental) part of SLR Consulting (SLR) to undertake a reconnaissance flora and vegetation, targeted flora, and basic fauna survey for the proposed Broome to Skuthorpe Line Extension (the Survey Area). The Survey Area is located approximately 18 km east of Broome Airport, in the Dampierland bioregion of Western Australia. The Survey Area is approximately 67.5 ha. The proposed development within the Survey Area requires the submission of a native vegetation clearing permit application.

The purpose of the assessment was to identify key biological values within the Survey Area to support the Environmental Impact Assessment (EIA) process and approvals applications to develop the proposed Broome to Skuthorpe Line Extension. This report presents results of the reconnaissance flora and vegetation, targeted flora survey, and basic fauna survey undertaken.

Flora and Vegetation

The flora desktop assessment identified 23 conservation significant species occurring within 50 km of the Survey Area. A pre-survey likelihood of occurrence assessment was undertaken and determined no species as having a high likelihood of occurrence, three species as having a medium likelihood of occurrence, and 20 species as having a low likelihood of occurrence.

The reconnaissance flora and vegetation survey recorded the floristic composition and vegetation types from six flora sites (all relevés) and numerous mapping notes and opportunistic observations. A total of 55 taxa were recorded from 43 genera across 25 families.

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

One flora taxon of conservation significance was recorded within the Survey Area, *Terminalia kumpaja* (P3). Four individuals of this taxa were recorded from a single location in the centre of the Survey Area.

Six introduced species were recorded during the survey, none of which are listed as Weeds of National Significance by the Department of Energy and Environment or Declared Pests by the State Department of Primary Industries and Regional Development.

One vegetation type (not including rehabilitation, planted garden vegetation, and cleared areas) was described and mapped across the broad plains landform of the Survey Area. Vegetation in the Survey Area was representative of existing broad scale vegetation, soil and land system mapping for the area, with Mixed *Acacia* Shrubland comprising 45% of the Survey Area.

Vegetation condition within the Survey Area ranged from Excellent to Completely Degraded, with the majority considered to be in Excellent to Very Good condition. Evidence of disturbance included weeds, litter and infrastructure.

Vertebrate Fauna

The vertebrate fauna desktop assessment identified 91 conservation significant species occurring within 30 km of the Survey Area. An assessment of the likelihood of occurrence within the Survey Area was undertaken and identified that of the potential conservation significant fauna, two had a high likelihood of occurrence, four had a medium likelihood of occurrence, and 85 had a low likelihood of occurrence.

Fauna habitat mapping was based on a combination of fauna habitat assessment data, vegetation mapping, and aerial imagery. Two fauna habitats were mapped within the Survey Area in *Acacia* Shrubland, and Rehabilitation (*Acacia* Shrubland). Which both provide habitat for native birds, mammals and reptiles.

The basic terrestrial vertebrate fauna survey recorded the fauna assemblage using a variety of detection methods including bird surveys, opportunistic observations, and active searches. A total of 41 fauna taxa from 28 families were recorded, comprising of 36 bird taxa from 24 families, four mammal taxa from three families, one reptile taxon from one family, and no amphibian taxa.

Seven taxa listed as Marine under the EPBC Act were recorded during the fauna survey, Whistling Kite (*Haliastur sphenurus*), Sacred Kingfisher (*Todiramphus sanctus*), Black-faced Cuckoo-shrike (*Coracina novaehollandiae*), Oriental Dollarbird (*Eurystomus orientalis*), Australian Kestrel (*Falco cenchroides*), Magpie-lark (*Grallina cyanoleuca*), and Straw-necked Ibis (*Threskiornis spinicollis*).

No other conservation significant species were recorded during the fauna survey. No scats, tracks, burrows, or diggings of the Greater Bilby (*Macrotis lagotis*) were detected during the fauna survey.

Two introduced species were recorded during the survey, European Cattle (*Bos primigenius taurus*) and Dog/Dingo (*Canis familiaris*).

The basic fauna survey was undertaken in November 2021 which is considered outside of the recommended wet and dry survey timings for reptiles, birds, and mammals in the Northern broad climatic region.



Abbreviations

Abbreviations used through the report are described below in Table 1.

Table 1: Abbreviations

Abbreviation	Description
360 Environmental	360 Environmental Pty Ltd part of SLR Group
ARU	Autonomous Recording Unit
BAM Act	Biosecurity and Agriculture Management Act 2007
BC Act	Biodiversity Conservation Act 2016
BoM	Bureau of Meteorology
°C	Degree Celsius
CD	Conservation Dependent Fauna
CR	Critically Endangered
DAWE	Department of Agriculture, Water, and the Environment
DBCA	Department of Biodiversity, Conservation and Attractions
DoE	Department of Environment
DP	Declared Pest
DWER	Department of Water and Environmental Regulation
EIA	Environmental Impact Assessment
EN	Endangered
EP Act	Environmental Protection Act 1986
EPA	Environmental Protection Authority
EPBC Act	Environment Protection Biodiversity and Conservation Act 1999
ESA	Environmentally Sensitive Area
GIS	Geographic Information System
ha	Hectare
Horizon	Horizon Power
IBRA	Interim Biogeographic Regionalisation for Australia
IBSA	Index of Biodiversity Surveys for Assessments
km	Kilometres
m	Metres
mm	Millimetres
MA	Marine
MI	Migratory
MNES	Matters of National Environmental Significance
NVIS	National Vegetation Information System
OS	Other Specially Protected Fauna
P	Priority

Abbreviation	Description
PEC	Priority Ecological Community
PMST	Protected Matters Search Tool
SRE	Short Range Endemic
Study Area	The database search area (varied according to each parameter)
Survey Area	The Broome to Skuthorpe Line Extension Survey Area is 67.5 ha
T	Threatened
TEC	Threatened Ecological Community
TPFL	Threatened and Priority Flora Database
TPFRF	Threatened and Priority Flora Report Forms
VU	Vulnerable
WA	Western Australia
WAH	Western Australian Herbarium
WAM	Western Australian Museum
WoNS	Weeds of National Significance

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1 Introduction

1.1 The Project

Horizon Power commissioned 360 Environmental Pty Ltd (360 Environmental) part of SLR Consulting (SLR) to undertake a biological assessment for the proposed Broome to Skuthorpe Line Extension Project Area (the Project Area).

The Project Area is located approximately 20 km north-east of Broome in the Dampierland bioregion of Western Australia. The Broome to Skuthorpe Line Extension Survey Area (the Survey Area) is approximately 67.5 ha (Figure 1). The proposed development footprint within the Survey Area requires approximately 10.6 ha of vegetation to be cleared.

1.2 Objectives and Scope

The purpose of the survey was to delineate key flora and fauna values within the Survey Area and identify potential environmental sensitivities that may impact the Project.

The scope of works includes:

- Undertake a Desktop Assessment including relevant database searches and a literature review to compile and summarise existing records of flora, vegetation and fauna (including conservation significant species and communities) in the vicinity of the Survey Area
- Undertake a reconnaissance flora and vegetation survey using relevés, mapping notes and meandering traverses to identify and describe the vegetation and flora occurring within the Survey Area
- Undertake targeted searching for flora of conservation significance within the Survey Area
- Undertake a basic terrestrial vertebrate fauna survey using low-intensity fauna detection methods, including non-systematic and opportunistic observations of fauna species, and secondary evidence such as tracks, diggings and scats (including Greater Bilby and feral taxa records and observation)
- Provide a Post Survey Debrief Email to Horizon power
- Provide a Biological Report to Horizon Power
- Provide an Assessment Against the Ten Clearing Principles to Horizon Power
- Supply a geospatial data package prepared in accordance with IBSA requirements.

This report presents the results of the survey undertaken to support the above objectives.

2 Background

2.1 Protection of Flora, Vegetation and Fauna

Western Australian flora and fauna is protected formally and informally by legislative and non-legislative measures:

Legislative measures:

- *Commonwealth Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act)
- *WA Biodiversity Conservation Act 2016* (BC Act)
- *WA Environmental Protection Act 1986* (EP Act)
- *WA Biosecurity and Agriculture Management Act 2007* (BAM Act).

Non-legislative measures:

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

These protection mechanisms are supported by guidance documents published by the Environmental Protection Authority (EPA) and Department of Agriculture, Water and the Environment (DAWE):

- *Technical Guidance – Flora and Vegetation Surveys for Environmental Impact Assessment* (Environmental Protection Authority, 2016b)
- *Technical Guidance – Terrestrial Vertebrate Fauna Surveys for Environmental Impact Assessment* (Environmental Protection Authority, 2020)
- *Matters of National Environmental Significance Significant impact guidelines 1.1 Environment Protection and Biodiversity Conservation Act 1999* (Department of the Environment, 2013)
- *Survey Guidelines for Australia's Threatened Mammals* (Department of Sustainability Environment Population and Communities, 1999)
- *Survey Guidelines for Australia's Threatened Reptiles* (Department of Sustainability Environment Water Population and Communities, 2011)
- *Survey Guidelines for Australia's Threatened Birds Under the Environment Protection And Biodiversity Conservation Act 1999* (Department of the Environment Water Heritage and the Arts, 2010)

- *Guidelines for Surveys to Detect the Presence of Bilbies, and Assess the Importance of Habitat In Western Australia* (Department of Biodiversity Conservation and Attractions, 2017b)

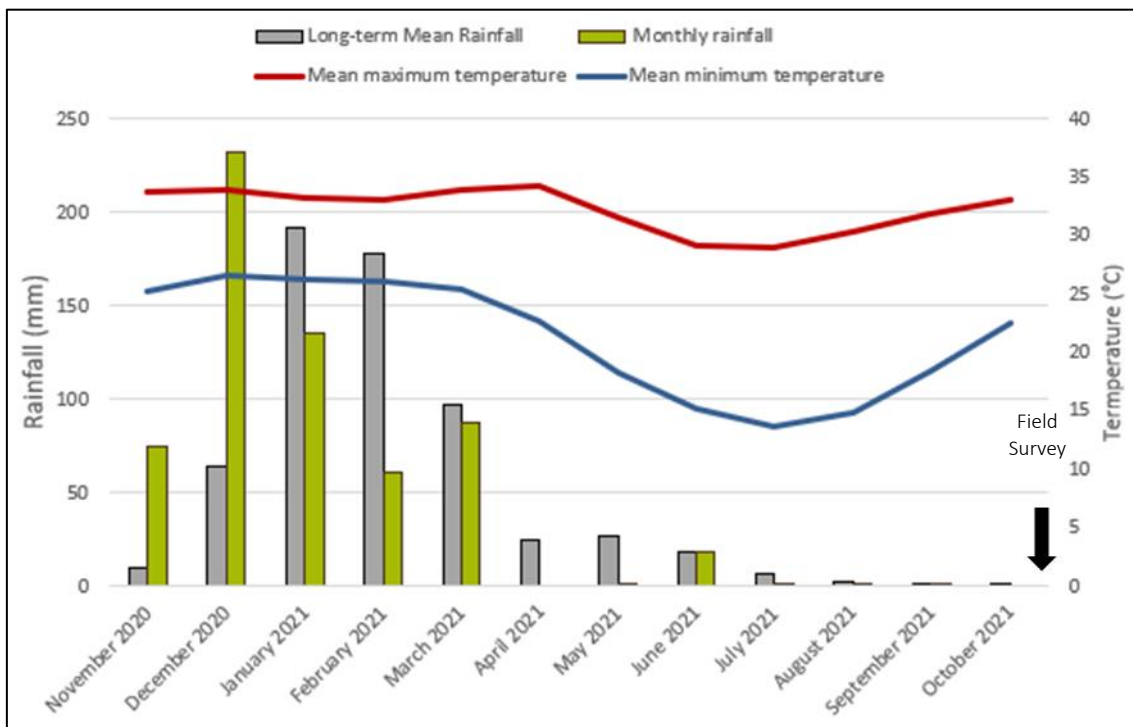
2.2 Existing Environment

2.2.1 Climate

The closest long-term Bureau of Meteorology (BoM) weather station with a complete dataset is Broome Airport (Station 3003), located approximately 20 km south-west of the Survey Area.

The long-term mean minimum temperature for Broome Airport weather station ranges from 13.7°C (July) to 26.6°C (December) (1939 to 2021) and the long-term mean maximum temperature ranges from 29.0°C (July) to 33.9°C (December) (Graph 1) (Bureau of Meteorology, 2021).

The Broome Airport weather station recorded 614.6 mm of rainfall in the 12 months prior to the survey (November 2020 to October 2021), which is 8.9 mm below the long-term average of 623.5 mm (Bureau of Meteorology, 2021). In the three months prior to the survey (August 2021 to October 2021), 1.5 mm of rainfall was recorded, which is 3.4 mm below the long-term average of 4.9 mm for the same time period (Bureau of Meteorology, 2021).



Graph 1: Long term and monthly total rainfall, maximum and minimum temperatures for Broome Airport (3003) in the 12 months prior to survey (Bureau of Meteorology, 2021). Arrow indicates time of survey.

2.2.2 Interim Biogeographic Regionalisation of Australia

The Interim Biogeographic Regionalisation of Australia (IBRA) divides Australia into 89 bioregions based on major biological, geographical and geological attributes. These bioregions are subdivided into 419 subregions as part of a refinement of the IBRA framework (Department of the Environment and Energy, 2016). The Survey Area occurs within the Dampierland bioregion and the Pindanland (DAL02) subregion.

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

2.2.3 Soil Landscapes and Land Systems

Soil landscapes and land system mapping of Western Australia describes broad soil and landscape characteristics from regional to local scales, ranging from 1:20,000 to 1:250,000 (Department of Primary Industries and Regional Development, 2018). The Survey Area occurs within one land system (Figure 2).

- **Yeeda (335Ye):** Sandplain, deep red and yellow sands, pindan and tall woodlands.

2.2.4 Hydrography

No hydrographic features intersect the Survey Area. The buffer zone of the Roebuck Bay mudflats occurs 1.4 km to the south of the Survey Area (Figure 2). This area supports the Roebuck Bay mudflats Threatened Ecological Community (TEC), which is an intertidal system supporting a species-rich faunal community and numerous conservation significant fauna species (Graham, 2001; Department of Water and Environmental Regulation, 2016).

2.2.5 Broad Vegetation Types

Mapping of pre-European vegetation in Western Australia was completed on a broad scale (1:1,000,000) by Beard (1976). These vegetation types were later refined by Shepherd *et al.* (2002) resulting in 819 vegetation types.

One broad vegetation system association is mapped over the Survey Area (Figure 3). Representation of the system associations at a local, regional and state level is shown in Table 2.

- **Dampierland 750:** *Acacia* thicket with eucalypt woodland over spinifex *Acacia tumida*, *Eucalyptus tectifica*, *Corymbia grandifolia*, *Triodia pungens*, and *T. bitextura*

Table 2: Broad Vegetation Types within the Survey Area and their Representation at the State, Regional and Local Levels (Government of Western Australia, 2019)

System and Vegetation Association	Extent			
	Pre-European (ha)	Current (ha)	Remaining (%)	Managed in DBCA Lands (%)*
Representation across Western Australia				
Dampierland 750	1,223,884.58	1,218,427.52	99.55	2.8
Representation across the Dampierland Bioregion				
Dampierland 750	1,221,911.24	1,218,020.52	99.68	2.8
Representation across the Pindarland Subregion				
Dampierland 750	1,221,733.34	1,217,842.61	99.68	2.8
Representation across the Shire of Broome				
Dampierland 750	1,115,559.36	1,110,131.18	99.51	3.07

*as a portion of the current extent

2.2.6 Environmentally Sensitive and Conservation Areas

Environmentally Sensitive Areas (ESAs) are declared by the Department of Water and Environmental Regulation (DWER) to prevent the degradation of important environmental values such as Threatened flora, TECs or significant wetlands.

The Survey Area does not occur within a mapped ESA (Figure 4). The nearest ESA is a defined Environmentally sensitive area and associated 5 km buffer comprising the Roebuck Bay mudflats, located approximately 1.4 km south of the Survey Area (Department of Water and Environmental Regulation, 2020).

2.2.7 Land Use

The Survey Area is partially located on Roebuck Plains Station, an active cattle station. Clearing associated with the station, rural small holdings, and Broome Rd infrastructure is present throughout the Survey Area.

3 Methods

The biological survey documented by this report were undertaken in accordance with relevant EPA and DAWE guidelines (see section 2.1).

3.1 Desktop Assessment

3.1.1 Literature Review

Background information on the Survey Area and surrounds was compiled prior to the field survey (see Section 2). Historical vegetation mapping (Beard, 1976; Shepherd, Beeston and Hopkins, 2002), land systems mapping (Department of Primary Industries and Regional Development, 2018), and the IBRA classification system (Department of the Environment and Energy, 2016) were consulted to provide broad contextual knowledge of the vegetation units and habitat likely to be encountered within the Survey Area.

The literature review also considered a selection of publicly available biological reports detailing assessments undertaken in the region:

- *Broome North: Southern Portion - Preliminary Environmental Impact Assessment and Biological Survey* (GHD, 2009), 14.5 km west southwest of the Survey Area
- *Broome Regional Resource Recovery Park Reconnaissance Flora & Level 1 Fauna Survey* (Spectrum Ecology, 2020), 2.5 km east and 11 km west northwest of the Survey Area
- *Broome Road Industrial Area - Preliminary Environmental Impact Assessment and Biological Survey* (GHD, 2010), 8 km west of the Survey Area
- *Broome Road Industrial Area Targeted Survey* (GHD, 2018), 8 km west of the Survey Area
- *Broome Road Subdivision Area - Conservation Significant Fauna Survey* (GHD, 2015), 8 km west of the Survey Area
- *Flora, Vegetation and Fauna Assessment - Broome Asparagus Farm* (AECOM Australia Pty Ltd, 2017), Overlaps the Survey Area
- *Mamabulanjin Orchard Flora and Fauna Survey* (GHD, 2019), 10.5 km west of the Survey Area
- *Nyamba Buru Yawuru Flora and Fauna Survey* (Ecoscape (Australia) Pty Ltd, 2017), 26 km southeast of the Survey Area
- *Targeted Bilby Survey - Crab Creek Road, Broome* (360 Environmental Pty Ltd, 2017), 9 km west of the Survey Area

3.1.2 Database Searches

Database searches were undertaken to compile a list of potential flora and fauna and identify potential conservation significant flora, fauna, and ecological communities within or surrounding the Survey Areas (Table 3). In addition, an EPBC Protected Matters Search (PMST) was undertaken to identify the potential for Matters of National Environmental Significance

(MNES) to occur within or surrounding the Survey Area (Department of Agriculture Water and the Environment, 2020).

The search areas are herein referred to collectively as the Study Area.

Table 3: Database Searches of the Study Area

Database Name	Date Received	Search Target	Search Area
Threatened and Priority Ecological Communities database search (Department of Biodiversity Conservation and Attractions, 2021a)	26 Oct 2021	TECs and PECs	50 km buffer around the Survey Area
Threatened and Priority Flora (TPFL) database search (Department of Biodiversity Conservation and Attractions, 2020b)	18 Oct 2021	Threatened and Priority Flora	50 km buffer around the Survey Area
Western Australian Herbarium flora database search (Department of Biodiversity Conservation and Attractions, 2021c)	18 Oct 2021		50 km buffer around the Survey Area
DBCA Threatened and Priority Fauna database search (Department of Biodiversity Conservation and Attractions, 2021b)	02 Nov 2021	Threatened and Priority Fauna	20 km buffer around the Survey Area
NatureMap (Department of Biodiversity Conservation and Attractions, 2020a)	01 Nov 2021	Threatened and Priority flora and fauna, and inventory of potential flora and fauna	30 km buffer around the Survey Area
Protected Matters Search Tool (Department of Agriculture Water and the Environment, 2021b)	01 Nov 2021	Commonwealth listed Threatened flora and fauna and TECs	20 km buffer around the Survey Area

3.1.3 Likelihood of Occurrence

Conservation significant flora and fauna species identified from the desktop assessment were assessed to determine the likelihood of their occurrence within the Survey Area, both prior to and post field survey. The assessment was completed based on the likelihood of occurrence criteria presented in Table 4.

Only species either recorded within the Survey Area or considered as having a high or medium likelihood of occurrence will be discussed in detail. Species classified as having a low likelihood

of occurrence based on the above criteria will not be discussed unless a justification for this classification is required.

For fauna, taxa listed as Marine only under the EPBC Act were not included as conservation significant taxa because the Marine only listed taxa identified by the desktop assessment and field survey were common and widespread, taxa listed as Marine only do not constitute matters of national environmental significance (MNES) under the EPBC Act, and the Survey Area does not contain any marine habitat.

Table 4: Likelihood of Occurrence Criteria

Rank	Criteria
Previously Recorded	The species has been previously recorded in the Survey Area
High (Likely to occur)	<ul style="list-style-type: none"> There are existing records of the species in close proximity to the Survey Area (within 5 km), and for fauna has been recorded in close proximity to the Survey Area in the last 15 years The species is strongly linked to a specific habitat, which is present in the Survey Area; or The species has more general habitat preferences, and suitable habitat is present.
Medium (May occur)	<ul style="list-style-type: none"> There are existing records of the species from the locality (within 5 - 15 km), however <ul style="list-style-type: none"> The species is strongly linked to a specific habitat, of which only a small amount is present in the Survey Area; or The species has more general habitat preferences, but only some suitable habitat is present. There is suitable habitat in the Survey Area, but the species is recorded infrequently in the locality.
Low (Unlikely to occur)	<ul style="list-style-type: none"> The species is linked to a specific habitat, which is absent from the Survey Area; or Suitable habitat is present, however there are no existing records of the species from the locality despite reasonable previous search effort in suitable habitat; or There is some suitable habitat in the Survey Area, however the species is very infrequently recorded in the locality.

3.2 Field Surveys

The reconnaissance flora and vegetation and basic terrestrial vertebrate fauna survey was undertaken by Botanist Grant Buller (Flora Licence FB62000321) and Ecologist Poppy Walker (Flora Licence FB62000305) from 16 to 19 November 2021 (Table 5). The field team has five years of combined experience conducting surveys of similar scope throughout Western Australia. Survey effort is demonstrated in Figure 5.

Table 5: Field Trip

Scope	Date	Personnel	Person Field Days
Reconnaissance flora and vegetation survey Targeted flora searches during traverses between flora sites Basic fauna survey	16 – 19 November 2021	Grant Buller Poppy Walker	8

3.3 Flora and Vegetation

3.3.1 Establishment of Flora Sites

Indicative flora sites were identified prior to the survey using aerial photography, and adjacent available vegetation mapping, to estimate broad vegetation patterns within the Survey Area. The location and number of flora sites completed were adjusted on site to achieve sites most representative of the vegetation present.

At least three flora sites were sampled in each vegetation type observed within the Survey Area, where possible. Some vegetation types that were not large enough to accommodate three flora sites had only one or two sites sampled.

Flora sites consisted of relevés, unbounded sites of approximately 50 x 50 m where possible, or alternate configurations approximately equating to 2500 m² (as required in areas such as drainage lines, gullies, and narrow ridge lines). A record of the flora present at the time of sampling was recorded at each relevé.

Flora site location was recorded using a handheld Garmin GPS unit, with points recorded at the start and finish point of linear relevés, and the central point of circular relevés. At each flora site, the following was recorded using a Fulcrum mobile data collection device:

- Site code
- Date and personnel
- Landform and soil description
- Relevant site descriptors including, slope, aspect, litter cover, bare ground cover and fire history
- Inventory of vascular flora including the approximate average height and percentage foliar cover for each taxon recorded
- Vegetation description in accordance with the National Vegetation Information System (NVIS), whereby the dominant growth form, height, cover and species (three species) for the three traditional strata (upper, mid and ground) are described
- Vegetation condition in accordance with the Eremaean and Northern Botanical Provinces vegetation condition scale (Environmental Protection Authority, 2016b) and

evidence of disturbance (for example clearing, rubbish, feral animals, weed incursion and evidence of feral animals and dieback) where present

- Photograph of the vegetation occurring within the site

A total of six relevés were established within the Survey Area, and 30 additional mapping notes were completed to aid vegetation mapping delineation.

3.3.2 Opportunistic Flora

Additional flora taxa observed opportunistically around flora sites or while traversing on foot within the Survey Area were also recorded. Where populations of conservation significant flora taxa, Declared Pests (DPs) or WoNS were encountered, a GPS location and a count of the individuals present was recorded.

3.3.3 Targeted Searching

Prior to the survey, conservation significant flora with the likelihood or potential to occur within the Survey Area was compiled (see section 4.2.2). Field personnel familiarised themselves with photographs, reference samples and descriptions of these taxa before conducting the survey.

The entire Survey Area was not systematically searched. Rather, targeted searching focussed on habitat suitable for the conservation significant taxa. Potential habitat within the proposed footprint was prioritised for targeted searching over areas outside the proposed footprint.

Personnel also actively searched for conservation significant flora species in and around flora sites, while traversing on foot within the Survey Area and in known locations or preferred habitat encountered in the Survey Area.

Where Threatened or Priority flora were encountered in the field a GPS location was taken and a count of individuals was recorded, followed by a search in the local vicinity to determine if any other individuals were present nearby and delineate population boundaries where relevant. Specimens of any potential conservation significant flora that could not be identified in the field were collected for identification and lodgement at the Western Australian Herbarium (WAH).

3.3.4 Taxonomy and Nomenclature

Where field identification of plant taxa was not possible, specimens were collected for identification using resources of the WAH. Identification of flora collections was completed by experienced taxonomist Sharnya Thomson.

The finalised species list was checked against FloraBase (Western Australian Herbarium, 2021) to determine the conservation status and known distribution of each taxon. Introduced species were compared against the current BAM Act Declared Plants list the WoNS list to determine their control status (Department of Agriculture Water and the Environment, 2021c; Department of Primary Industries and Regional Development, 2021).

Any conservation significant flora taxa, including potential Threatened and Priority species, range extensions and potential new taxa were submitted to the WAH for verification and lodgement. Where relevant, Threatened and Priority Flora Report Forms (TPFRFs) were submitted to DBCA.

3.3.5 Vegetation Unit and Condition Mapping

Broad vegetation and condition mapping was conducted in the field, with boundaries delineated over aerial photography, at a scale of 1:5,000. Broad vegetation units were refined based on taxonomic identification of flora collections, and mapping notes taken during the field survey. Vegetation condition mapping was refined based on site data and mapping notes. Finalised polygons were digitised and extrapolated to 500 m using aerial imagery and produced as electronic mapping data using GIS software.

3.4 Vertebrate Fauna

3.4.1 Daily Survey Conditions

Survey conditions for the basic fauna survey are presented in Table 6. Daily temperature and rainfall data is from Broome Airport (Station 3003) (Bureau of Meteorology, 2021). This information is important for potential detection of species during a survey.

Table 6: Detailed Fauna Survey Weather Conditions

Date	Temperature (°C)		Rainfall (mm)
	Min	Max	
16/11/2021	24.1	32.9	0
17/11/2021	25.8	34.4	0
18/11/2021	26.9	32.8	0
19/11/2021	27.1	32.4	0

3.4.2 Fauna Habitat Assessment

Fauna habitat assessments were undertaken throughout the Survey Area to identify fauna habitat values. Habitat assessment locations are shown in Figure 5. The following information was collected at each site using Fulcrum, a mobile data collection app:

- Site photo
- Landform
- Soil type and colour
- Rock types, surface stone cover and size classes
- Key habitat and microhabitat features including leaf litter, logs, burrows, rocky outcrops, rock crevices, hollows, water sources
- Habitat quality, fire history and evidence of disturbance
- General description of vegetation structure.

Fauna habitat mapping was based on a combination of field observations, fauna habitat assessment data and vegetation mapping undertaken by 360 Environmental.

3.4.3 Opportunistic Observations and Active Searches

Opportunistic observations of fauna were recorded throughout the Survey Area. Observations of primary evidence (direct sightings, calls) and secondary evidence (tracks, scats, diggings etc.) were recorded. Active searches were undertaken in microhabitats likely to contain fauna. They primarily involved raking leaf litter, peeling bark, and splitting dead wood.

3.4.4 Bird Surveys

Systematic bird surveys were undertaken within the Survey Area for 20 minutes at each fauna habitat assessment location (Environmental Protection Authority, 2020). Where practicable, this was undertaken during typical peak periods of activity when birds are calling and moving about, which is typically in the 3-4 hours of sunrise, particularly during warmer periods.

3.4.5 Identification and Taxonomy

Terrestrial vertebrate fauna taxa were identified in the field and released on site.

Where there was doubt on a species name (through subsequent name changes or taxonomic reviews), an effort was made to determine the current scientific name for each taxon. Taxonomy and nomenclature in this report follows the WA Museum checklist November 2021 (Western Australian Museum, 2021) where relevant.

4 Results

4.1 Limitations

Limitations and constraints of the flora, vegetation and fauna survey are detailed below in Table 7. Despite the limitations identified the assessment is suitable to support approvals applications for the proposed actions within the Survey Area.

Table 7: Limitations and Constraints Associated with the Survey

Variable	Degree of Limitation	Potential Constraints on Survey Outcomes
Survey Scope	Partial	<p>The reconnaissance flora and vegetation survey was undertaken in accordance with EPA and was considered appropriate to support approvals applications (Environmental Protection Authority, 2016b).</p> <p>Targeted searching for flora of conservation significance was undertaken, focussed on habitat suitable for conservation significant flora within the proposed development footprint.</p> <p>A basic terrestrial vertebrate fauna survey was undertaken in November, which is considered outside of the recommended wet and dry season timings for reptiles, birds and mammals according to the EPA guidance (Environmental Protection Authority, 2020), however, the field survey was sufficient to delineate fauna habitat.</p>
Availability of Data	No	All data required to complete the scope of works including regional and local contextual information was available
Site Access	No	The Survey Area was able to be accessed by vehicle and on foot.
Survey Intensity and Resources	No	<p>Six flora relevés were sampled across the Survey Area. An additional 30 mapping notes were undertaken to aid vegetation mapping and delineation.</p> <p>Sufficient time was allocated to the flora and vegetation survey, given the size and complexity of the Survey Area, and the expected level of survey intensity.</p> <p>The survey effort was considered adequate to assess the flora and vegetation values of the Survey Area and provide information required to support approvals applications.</p> <p>The basic fauna survey consisted of fauna habitat assessments, bird surveys, active searching, and opportunistic fauna sightings.</p>
Experience	No	The flora and vegetation survey was undertaken by Botanist Grant Buller. Grant has 5 years' experience conducting surveys of similar scope throughout Western Australia.

Variable	Degree of Limitation	Potential Constraints on Survey Outcomes
		<p>Identification of flora collections was completed by experienced taxonomist Sharnya Thomson at the WAH. Relevant WAH specialists were consulted for difficult specimens.</p> <p>The fauna survey was undertaken by Ecologist Poppy Walker. Poppy has 2 years' experience conducting surveys of similar scope throughout Western Australia and the bioregion.</p>
Timing, weather, season	Yes	<p>The recommended primary survey period for flora and vegetation and fauna surveys in the Northern Botanical Province as per the EPA Technical Guidance is during the wet season (December - March). The survey was undertaken in November, outside of the optimal survey period for the region.</p> <p>As November falls at the end of the dry season, only 1.5 mm of rain fell in the 3 months prior to the survey. Rainfall 12 month and 3 months prior to the survey was below the long-term averages for the same time periods. No rain fell during the survey and temperatures ranged from 24.1°C to 34.4°C.</p>
Life Forms Sampled	No	<p>The Survey Area was traversed by vehicle and on foot and representative sites of all remnant vegetation was sampled. All flora species encountered within the Survey Area were recorded.</p> <p>A total of 52 vascular flora taxa were recorded from the Survey Area, comprising 96.15 % native flora taxa and 3.85 % introduced flora taxa.</p> <p>Of the 52 flora taxa recorded, five taxa (9.6 %), could not be identified to species level because they were either sterile at the time of the survey or reproductive material could not be collected. This was not considered a constraint as it represented a very small portion of the flora sampled.</p> <p>None of the unknown flora taxa collected were analogous to Threatened or Priority flora taxa identified by the database searches as likely to occur within the Survey Area, nor were they representative of flora of other significance.</p> <p>The basic fauna survey identified 41 fauna taxa. All vertebrate fauna species were readily identified in the field.</p>
Mapping Reliability	No	<p>Vegetation types were described and mapped based on relevé data and additional mapping notes taken during the field survey.</p> <p>High resolution aerial mapping current at the time of the survey was used to differentiate all vegetation greater than 1 ha in size.</p>

Variable	Degree of Limitation	Potential Constraints on Survey Outcomes
		Fauna habitat mapping was based largely on vegetation mapping and there were no constraints on mapping reliability.
Disturbances (fire, flood etc.)	No	No disturbances occurred during any of the surveys. Areas of disturbance associated with cattle stations, rural small holdings and road infrastructure were recorded but were not a constraint on the results of the survey.
Completeness	No	The survey was considered complete for a detailed flora and vegetation survey, all vegetation types were surveyed and delineated within the Survey Area and a minimum of three quadrats was surveyed for each vegetation type.

4.2 Flora and Vegetation

4.2.1 Desktop Assessment

The key findings of the flora and vegetation reports reviewed are summarised in Appendix A.

Database searches identified 22 conservation significant flora species occurring within 50 km of the Survey Area (Figure 6), comprising:

- Five Priority 1 species
- One Priority 2 species
- 15 Priority 3 species
- One Priority 4 species

One taxon (*Seringia exastia*) is currently listed as Threatened, however this species has been recently combined with *S. elliptica* following genetic review. For now, the species has retained the name *S. exastia* and status; the latter will be removed in the future. Thus, for the purpose of this report, the taxon is not considered a Threatened species.

No State or Commonwealth listed TECs were identified within the Survey Area by the database searches. Twelve State listed PECs and their buffers occur within 50 km of the Survey Area (Department of Biodiversity Conservation and Attractions, 2021a) (Figure 7):

- *Corymbia paractia* dominated community on dunes (Priority 1) – 16.5 km WSW to 23 km SW of the Survey Area
- Dwarf pindan heath community of Broome coast (Priority 1) – 23.5 km SW of the Survey Area
- Kimberley Vegetation Association 770 (Priority 1) – 16.5 km W of the Survey Area
- Monsoon (vine) thickets on coastal sand dunes of Dampier Peninsula (Vulnerable) – 17 km SW of the Survey Area

- Relict dune system dominated by extensive stands of Minyjuru (Mangarr) *Sersalisia* (formerly *Pouteria*) *sericea* (Priority 1) – 8.2 km W of the Survey Area
- Species-rich faunal community of the intertidal mudflats of Roebuck Bay (Vulnerable) – 1.5 km S of the Survey Area
- Eight Mile Land System (Priority 3) – approx. 46 km SSW of the Survey Area
- Kimberley Vegetation Association 37 (Priority 3) – 31.5 km S of the Survey Area
- Kimberley Vegetation Association 67 (Priority 3) – 25 km SE of the Survey Area
- Kimberley Vegetation Association 73 (Priority 3) – 3.8 km SE of the Survey Area
- Roebuck Land System (Priority 3) – 5 km SE of the Survey Area
- Nimalarica Claypan Community (previously Nimalaica) (Priority 4) – 15 km NW of the Survey Area

Database searches are shown in their entirety in Appendix B.

4.2.2 Pre-Survey Likelihood of Occurrence

The pre-survey likelihood of occurrence assessment identified that of the 23 conservation significant flora species identified by the desktop assessment:

- None had previously been recorded within the Survey Area
- None were considered to have a high likelihood of occurrence
- Three were considered to have a medium likelihood of occurrence
- 20 were considered to have a low likelihood of occurrence.

The likelihood of occurrence assessment is provided in Appendix C.

4.2.3 Flora Composition

The survey recorded a total of 55 taxa from 44 genera across 25 families (Appendix D). The dominant families were Fabaceae (13 taxa), Poaceae (five taxa) and Proteaceae (five taxa). The most dominant genera was *Acacia* (seven taxa).

4.2.4 Flora of Conservation Significance

4.2.4.1 Threatened or Priority Flora

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

One Priority species as listed by DBCA was recorded within the Survey Area, *Terminalia kumpaja* (P3) (Plate 1). Four individuals of *T. kumpaja* (P3) were recorded (Figure 8c) from a single location among the Mixed *Acacia* Shrubland towards the centre of the corridor.

Copies of the Threatened and Priority Flora Report forms submitted to DBCA are provided in Appendix E.



Plate 1: *Terminalia kumpaja* (P3) a) habit and habitat, b) leaves, and c) fruit.

4.2.4.2 Flora of Other Conservation Significance

Flora may be considered of other conservation significance if it represents a range extension, novel taxon, species that play a keystone role in a community, has relic status, is locally endemic, or represents the extent of a species range. No other taxa recorded from the Survey Area is considered to be of other conservation significance.

4.2.5 Introduced Flora

A total of six introduced flora species were recorded within the Survey Area, representing 10.9 % of the total taxa recorded (Table 8). None are listed as Declared Pests under the BAM Act (Department of Primary Industries and Regional Development, 2021). None are listed as a WoNS (Department of Agriculture Water and the Environment, 2021c).

Table 8: Introduced Flora Species within the Survey Area

Species	Common Name	Status under BAM Act	WONS
<i>*Aerva javanica</i>	Kapok Bush	Permitted – s11	No
<i>*Stylosanthes hamata</i>	Verano Stylo	Permitted – s11	No
<i>*Azadirachta indica</i>	Neem tree	Permitted – s11	No
<i>*Amaranthus viridus</i>	Green Amaranth	Permitted – s11	No
<i>*Sida cordifolia</i>		Permitted – s11	No
<i>*Passiflora foetida</i>	Stinking Passion Flower	Permitted – s11	No

4.2.6 Unconfirmed Flora

Five specimens (9.1 % of the taxa recorded) could not be identified to species level (Appendix D) because the taxa were either sterile at the time of the survey or had insufficient reproductive material to assist with identification. All have been assigned a confirmed genus.


None of the unconfirmed flora taxa were analogous to Priority flora taxa identified by the database searches.



4.2.7 Vegetation Types


One vegetation type was described and mapped within the Survey Area. However, the Survey Area also included rehabilitating native vegetation (comparable to that of the native vegetation), as well as planted/non-native garden vegetation, and cleared areas (Table 9, Figure 8).

Detailed site sheets for each relevé are provided in Appendix F.

Table 9: Vegetation of the Survey Area

Vegetation Type	Description	Coverage	Photograph
Mixed <i>Acacia</i> Shrubland	<i>Corymbia greeniana</i> , <i>Bauhinia cunninghamii</i> , and <i>Brachychiton diversifolius</i> subsp. <i>diversifolius</i> low isolated to sparse trees over <i>Acacia eriopoda</i> tall open shrubland over <i>Sorghum</i> sp. mid sparse to open tussock grassland and <i>Triodia schinzii</i> mid sparse to open hummock grassland	45 ha, 66.8% of the Survey Area	

Vegetation Type	Description	Coverage	Photograph
Rehabilitation	<i>Corymbia greeniana</i> low isolated trees over mixed <i>Acacia</i> (<i>A. eriopoda</i> , <i>A. tumida</i>) tall open shrubland over <i>Sorghum</i> sp. mid open tussock grassland.	0.6 ha, 0.89% of the Survey Area	
Planted, non-native garden vegetation	Non-native or garden variety plants, not considered native vegetation.	0.35 ha, 0.52% of the Survey Area	

Vegetation Type	Description	Coverage	Photograph
Cleared	Cleared land for existing tracks and paddocks.	21.46 ha, 31.8% of the Survey Area	

4.2.8 Vegetation Condition

Vegetation condition within the Survey Area ranged from Excellent to Degraded, with the vast majority (65.42%) in either Excellent or Very Good condition, and the majority of the remaining areas previously cleared for roads and infrastructure (Table 10, Figure 9).

Evidence of disturbance included clearing for access tracks and fence lines and litter.

Table 10: Vegetation Condition of the Survey Area

Vegetation Condition	Area (ha)	Percentage of Survey Area
Excellent	23.03	33.92 %
Very Good	21.38	31.50 %
Good	1.17	1.72 %
Degraded	1.72	2.53 %
Completely degraded/Cleared	20.57	30.30 %

4.2.9 Vegetation of Conservation Significance

Threatened and Priority Ecological Communities

No vegetation considered representative of any TECs or PECs was recorded within the Survey Area.

Vegetation of Other Conservation Significance

Vegetation may be of significance for a range of reasons, other than a listing as a TEC or a PEC, including (Environmental Protection Authority, 2016a):

- Vegetation extent being below a threshold level
- Scarcity
- Unusual species
- Novel combinations of species
- A role as a refuge
- A role as a key habitat for threatened species or large populations representing a significant proportion of the local to regional total population of a species
- Being representative of the range of a unit (particularly a good local and/or regional example of a unit in 'prime' habitat, at the extremes of range, recently discovered range extensions, or isolated outliers of the main range); and/or
- A restricted distribution

The vegetation type 'Mixed *Acacia* Shrubland' was not considered of significance despite the Priority species *Terminalia kumpaja* (P3) being recorded, given that this vegetation type is widespread within the Survey Area and throughout the Kimberley.

4.2.10 Groundwater Dependent Ecosystems

Most vegetation in the Survey Area comprised xerophytic species that have no interaction with groundwater and therefore not considered to be a Groundwater Dependent Ecosystem (GDE).

4.2.11 Survey Adequacy

Six relevés were sampled across the Survey Area, with an additional 30 mapping notes. The flora and vegetation survey effort was in accordance with the scope of works, and in accordance with EPA guidelines for a reconnaissance flora and vegetation survey in the Kimberley bioregion (Environmental Protection Authority, 2016b).

4.3 Vertebrate Fauna

4.3.1 Desktop Assessment

Database searches identified 91 conservation significant terrestrial vertebrate fauna species potentially occurring within the Survey Area, comprising:

- 75 bird species
- 13 mammal species
- Three reptile species
- No amphibian species.



Key findings of the literature review are summarised in Appendix A. The results of the DBCA Threatened and Priority Fauna database search are mapped in Figure 10. Database searches are displayed in their entirety in Appendix B.



4.3.2 Fauna Habitat

Two broad fauna habitats (excluding cleared and garden vegetation) were identified and mapped within the Survey Area (Figure 11). Habitat condition remained consistent throughout the Survey Area, with the most prolific disturbances being clearing and weeds.

A description, extent within the Survey Area and a representative photo is provided for each fauna habitat in Table 11. Small discrepancies in fauna habitat extents (i.e., not adding up to the exact area extent of the Survey Area) are due to rounding. Fauna habitat mapping is presented in Figure 11 and site sheets for each habitat assessment are shown in Appendix G.

Table 11: Fauna Habitat Type Descriptions with the Survey Area

Fauna Habitat	Total Area, Proportion of the Survey Area	Habitat Description	Representative Photo
Acacia Shrubland	45.08 ha, 66.80%	<p><i>Corymbia greeniana</i>, <i>Bauhinia cunninghamii</i>, <i>Brachychiton diversifolius</i> subsp. <i>diversifolius</i> low isolated to sparse trees over <i>Acacia eriopoda</i> tall open shrubland over <i>Sorghum</i> sp. mid sparse to open tussock grassland and <i>Triodia schinzii</i> mid sparse to open hummock grassland.</p> <p>Peeling bark, termite mounds, and woody debris provide shelter for small reptiles and mammals. Isolated trees provide shelter and foraging habitat for birds.</p> <p>Peregrine Falcons and Pacific Swifts may use this habitat for hunting. Greater Bilbies may use this habitat for foraging and shelter.</p> <p>Vegetation condition impacted by vehicle tracks, litter and the presence of European Cattle and Rabbits.</p>	
Rehabilitation (Acacia Shrubland)	0.60 ha, 0.90%	<p>Ripped rehab consisting of <i>Corymbia greeniana</i> low isolated trees over mixed <i>Acacia</i> (<i>A. eriopoda</i>, <i>A. tumida</i>) tall open shrubland over <i>Sorghum</i> sp. mid open tussock grassland.</p> <p>Peeling bark, termite mounds, and woody debris provide shelter for small reptiles and mammals. Rock piles provide shelter for reptiles. Isolated trees provide shelter and foraging habitat for birds.</p> <p>Peregrine Falcons and Pacific Swifts may use this habitat for hunting.</p> <p>Vegetation condition impacted by vehicle tracks, litter, and clearing.</p>	

Fauna Habitat	Total Area, Proportion of the Survey Area	Habitat Description	Representative Photo
Planted, non-native garden vegetation	0.35 ha, 0.52%	Non-native or garden variety plants, not considered native vegetation. May provide shelter and foraging opportunities to some native fauna species. Increased access to water due to gardens may increase animal abundances.	
Cleared	21.46 ha, 31.80%	Cleared land for existing tracks and paddocks. Limited to no value to native fauna species.	
Total	67.49 ha		

4.3.3 Fauna Inventory

The terrestrial vertebrate fauna survey recorded a total of 41 fauna species from 28 families, summarised in Table 12. A full inventory of fauna species recorded during the field survey is provided in Appendix H.

Table 12: Overview of Vertebrate Fauna Species Recorded

Fauna group	Number of species	Number of families
Birds	36	24
Mammals	4	3
Reptiles	1	1
Amphibians	0	0
Total	41	28

Birds

A total of 36 avian taxa from 24 families were recorded throughout the Survey Area. The most recorded taxon was the Red-collared Lorikeet (*Trichoglossus rubritorquis*) followed by the Red-winged Parrot (*Aprosmictus erythropterus*) and the Magpie-lark (*Grallina cyanoleuca*). The most speciose avifauna families were Meliphagidae (five taxa), Cacatuidae (three taxa) and Columbidae (three taxa).

Mammals

A total of two native mammal taxa from one family were recorded within the Survey Area. The most recorded native mammal taxon was the Agile Wallaby (*Notamacropus agilis nigrescens*). Two introduced mammal taxa were recorded in the Survey Area, European Cattle (*Bos primigenius taurus*) and the Dingo/Dog (*Canis familiaris*).

Reptiles

A total of one reptilian taxon was recorded throughout the Survey Area, the Pindan Dragon (*Diporiphora pindan*).

Amphibians

No amphibians were recorded during the field survey.

4.3.4 Conservation Significant Fauna

No fauna species of conservation significance (Threatened or Priority), or evidence of these species such as tracks, scats, nest, diggings, burrows or direct sightings were recorded within or directly surrounding the Survey Area.

The post survey results identified two conservation significant taxa as having a high likelihood of occurrence within the Survey Area:

- Pacific Swift (*Apus pacificus*), Migratory under the DBCA Act, Migratory and Marine under the EPBC Act
- Greater Bilby, Dalgyte (*Macrotis lagotis*), Vulnerable under the BC and EPBC Act

Four conservation significant taxa were assessed as having a medium likelihood of occurrence within the Survey Area:

- Barn Swallow (*Hirundo rustica*), Migratory under the DBCA Act, Migratory and Marine under the EPBC Act
- Grey Falcon (*Falco hypoleucos*), Vulnerable under the BC and EPBC Act
- Oriental Pratincole (*Glareola maldivarum*), Migratory under the DBCA Act, Migratory and Marine under the EPBC Act
- Peregrine Falcon (*Falco peregrinus*), Other Specially Protected Fauna by DBCA.

Eighty-five conservation significant taxa were assessed as having a low likelihood of occurrence within the Survey Area. Further detail regarding recorded and potential conservation significant fauna is provided below in Table 13.

Species listed as Marine only under the EPBC Act identified by the desktop assessment, such as the Magpie-lark (*Grallina cyanoleuca*), Oriental Dollarbird (*Eurystomus orientalis*), Black-faced Cuckoo-shrike (*Coracina novaehollandiae*) etc, as well as marine dependent species including fish, sharks, dolphins, whales, sea-snakes and turtles were not included as part of the conservation significant fauna likelihood of occurrence. These species were not included as they are common and widespread, species listed as Marine only do not constitute MNES under the EPBC Act, and the Survey Area does not contain any marine habitat to be utilised by marine dependent species.

Table 13: Conservation Significant Fauna Likelihood of Occurrence

Conservation Status: State - Listed under Biodiversity Conservation Act 2016 or Department of Biodiversity, Conservation and Attractions Conservation List, Federal - Listed under Environmental Protection and Biodiversity Conservation Act 1999. CR - Critically Endangered, EN - Endangered, VU - Vulnerable, IA/MI - Migratory, CD - Conservation Dependent fauna, OS - Other Specially Protected fauna, MA - Marine, P - Listed as Priority by DBCA.

Family	Scientific Name	Common Name	Conservation Status		Likelihood of Occurrence	Justification
			State	Federal		
AVIAN						
Accipitridae	<i>Elanus scriptus</i>	Letter-winged Kite	P4		Low	Three DBCA records within 20 km of the Survey Area, including records from 18.6 km southwest of the Survey Area in 1994 and 11.8 km southeast of the Survey Area in 1980 ¹ . Limited suitable habitat present in the Survey Area (open country and grasslands of arid and semi-arid interior) ² .
Anatidae	<i>Spatula querquedula</i>	Garganey	IA	MI, MA	Low	Five DBCA records within 20 km of the Survey Area, including records from 16.3 km southeast of the Survey Area in 2006 and 15.9 km northwest of the Survey Area in 2001 ¹ . No suitable habitat present in the Survey Area (freshwater swamps, lagoons) ³ .
Apodidae	<i>Apus pacificus</i>	Pacific Swift	IA	MI, MA	High	85 DBCA records within 20 km of the Survey Area, including records from 0.5 km north of the Survey Area in 2000 and 10.7 km south of the Survey Area in 2015 ¹ . Suitable habitat present in the Survey Area (low to very high airspace over varied habitat) ⁴ .
	<i>Hirundapus caudacutus</i>	White-throated Needletail	IA	VU, MI, MA	Low	One DBCA record within 20 km of the Survey Area, 12.1 km south of the Survey Area in 2000 ¹ . Migratory to east Australia, rarely occurs in Western Australia ⁴ .
Ardeidae	<i>Ixobrychus dubius</i>	Australian Little Bittern	P4		Low	Three DBCA records within 20 km of the Survey Area, including records from 15.9 km and 16.3 km northwest of the Survey Area in 2001 ¹ . No suitable habitat present in the Survey Area (dense emergent freshwater wetland vegetation) ⁴ .
Charadriidae	<i>Charadrius bicinctus</i>	Double-banded Plover	IA	MI, MA	Low	No nearby records identified from the database searches or literature. Only returned by PMST which searches by modelled distribution, not actual records ⁵ . No suitable habitat present in the Survey Area (coastal and near coastal, tidal flat, open saltmarsh, freshwater wetlands) ² .
	<i>Charadrius dubius</i>	Little Ringed Plover	IA	MI, MA	Low	10 DBCA records within 20 km of the Survey Area, including records from 16.4 km southeast of the Survey Area in 2015 and 12.5 km south of the Survey Area in 2004 ¹ . No suitable habitat present in the Survey Area (tidal or freshwater wetlands, mudflats, estuaries, lakes, lagoons, dams, ponds) ⁴ .
	<i>Charadrius leschenaultii</i>	Greater Sand Plover	VU, IA	VU, MI, MA	Low	578 DBCA records within 20 km of the Survey Area, including records from 13.0 km south of the Survey Area in 2017 and 6.7 km southwest of the Survey Area in 2005 ¹ . No suitable habitat present in the Survey Area (tidal flats, beaches) ² .
	<i>Charadrius mongolus</i>	Lesser Sand Plover	EN, IA	EN, MI, MA	Low	305 DBCA records within 20 km of the Survey Area, including records from 13.0 km south of the Survey Area in 2017 and 6.7 km southwest of the Survey Area in 2005 ¹ . No suitable habitat present in the Survey Area (tidal flats) ² .

Family	Scientific Name	Common Name	Conservation Status		Likelihood of Occurrence	Justification
			State	Federal		
Charadriidae	<i>Charadrius veredus</i>	Oriental Plover	IA	MI, MA	Low	98 DBCA records within 20 km of the Survey Area, including records from 12.2 km south of the Survey Area in 2015 and 10.7 km south of the Survey Area in 2014 ¹ . Limited suitable habitat present in the Survey Area (grasslands, thinly vegetated plains) ² .
	<i>Pluvialis fulva</i>	Pacific Golden Plover	IA	MI, MA	Low	232 DBCA records within 20 km of the Survey Area, including records from 10.7 km south of the Survey Area in 2015 and 10.7 km south of the Survey Area in 2014 ¹ . No suitable habitat present in the Survey Area (coastal, tidal flats, beaches, reefs) ² .
	<i>Pluvialis squatarola</i>	Grey Plover	IA	MI, MA	Low	358 DBCA records within 20 km of the Survey Area, including records from 11.9 km south of the Survey Area in 2012 and 10.9 km south of the Survey Area in 2003 ¹ . No suitable habitat present in the Survey Area (coastal, tidal flats) ² .
Cuculidae	<i>Cuculus saturatus optatus</i>	Horsfield's Cuckoo	IA	MI	Low	Ten DBCA records within 20 km of the Survey Area, including records from 12.1 km south of the Survey Area in 2015 and 10.7 km south of the Survey Area in 2012 ¹ . No suitable habitat present in the Survey Area (riverside forests, rainforest patches, mangroves) ³ .
Estrildidae	<i>Chloebea gouldiae</i>	Gouldian Finch	P4	EN	Low	Four DBCA records within 20 km of the Survey Area, all historical records located 18.6 km southwest of the Survey Area ¹ . No suitable habitat present in the Survey Area (grassy open forests and woodlands near drinkable water, stony hills with <i>Eucalyptus brevifolia</i> when breeding) ³ .
Falconidae	<i>Falco hypoleucos</i>	Grey Falcon	VU	VU	Medium	Seven DBCA records within 20 km of the Survey Area, including records from 12.1 km south of the Survey Area in 2014 and 12.1 km south of the Survey Area in 1999 ¹ . Some suitable habitat present in the Survey Area (open plains with treed watercourses in arid inland) ² . May use the Survey Area for hunting.
	<i>Falco peregrinus</i>	Peregrine Falcon	OS		Medium	28 DBCA records within 20 km of the Survey Area, including records from 10.7 km south of the Survey Area in 2015 and 6.7 km southwest of the Survey Area in 2005 ¹ . Most environments with suitable nest sites: cliff faces preferred, including man-made ones, commonly uses stick nests built by other species ² . May use the Survey Area for hunting.
Fregatidae	<i>Fregata ariel</i>	Lesser Frigatebird	IA	MI, MA	Low	68 DBCA records within 20 km of the Survey Area, including records from 12.5 km south of the Survey Area in 2017 and 12.1 km south of the Survey Area in 2014 ¹ . No suitable habitat present in the Survey Area (oceanic) ³ .
	<i>Fregata minor</i>	Greater Frigatebird	IA	MI, MA	Low	Two DBCA records within 20 km of the Survey Area, both records from 18.6 km southwest of the Survey Area in 2012 ¹ . No suitable habitat present in the Survey Area (oceanic) ³ .
Glareolidae	<i>Glareola maldivarum</i>	Oriental Pratincole	IA	MI, MA	Medium	87 DBCA records within 20 km of the Survey Area, including records from 10.7 km south of the Survey Area in 2015 and 8.3 km south of the Survey Area in 2002 ¹ . Some suitable habitat present in the Survey Area (open plains, tidal flats, beaches, wetlands) ⁴ .
Hirundinidae	<i>Cecropis daurica</i>	Red-rumped Swallow	IA	MI, MA	Low	11 DBCA records within 20 km of the Survey Area, including records from 13.3 km south of the Survey Area in 2015 and 10.3 km south of the Survey Area in 2000 ¹ . Non-breeding migrant to northern Australia, rarely occurs in Western Australia ⁴ .

Family	Scientific Name	Common Name	Conservation Status		Likelihood of Occurrence	Justification
			State	Federal		
Hirundinidae	<i>Hirundo rustica</i>	Barn Swallow	IA	MI, MA	Medium	144 DBCA records within 20 km of the Survey Area, including records from 10.7 km south of the Survey Area in 2015 and 12.0 km south of the Survey Area in 2008 ¹ . No suitable habitat present in the Survey Area (coastal, wetlands) ² . However, forages over open country, often congregates in areas with high densities of flying insects.
Laridae	<i>Anous stolidus</i>	Common Noddy	IA	MI, MA	Low	Four DBCA records within 20 km of the Survey Area, including records from 18.6 km southwest of the Survey Area in 1999 and 1900 ¹ . No suitable habitat present in the Survey Area (oceanic) ⁴ .
	<i>Chlidonias leucopterus</i>	White-winged Black Tern	IA	MI, MA	Low	149 DBCA records within 20 km of the Survey Area, including records from 10.7 km south of the Survey Area in 2015 and 5.9 km southeast of the Survey Area in 2004 ¹ . No suitable habitat present in the Survey Area (coastal, estuaries, freshwater lakes, swamps, salt lakes) ³ .
	<i>Gelochelidon nilotica</i>	Gull-billed Tern	IA	MI, MA	Low	302 DBCA records within 20 km of the Survey Area, including records from 12.4 km south of the Survey Area in 2017 and 5.9 km southeast of the Survey Area in 2004 ¹ . No suitable habitat present in the Survey Area (coastal, estuaries, tidal creeks, salt lakes, freshwater swamps, lagoons, claypans) ³ .
	<i>Hydroprogne caspia</i>	Caspian Tern	IA	MI, MA	Low	478 DBCA records within 20 km of the Survey Area, including records from 10.8 km south of the Survey Area in 2015 and 9.3 km south of the Survey Area in 2004 ¹ . No suitable habitat present in the Survey Area (coastal, estuaries, tidal creeks, near-coastal salt lakes, brackish pools) ³ .
	<i>Onychoprion anaethetus</i>	Bridled Tern	IA	MI, MA	Low	One DBCA records within 20 km of the Survey Area, 18.5 km southwest of the Survey Area in 2001 ¹ . No suitable habitat present in the Survey Area (oceanic) ³ .
	<i>Sterna dougallii</i>	Roseate Tern	IA	MI, MA	Low	19 DBCA records within 20 km of the Survey Area, including records from 10.8 km south of the Survey Area in 2003 and 12.3 km south of the Survey Area in 1999 ¹ . No suitable habitat present in the Survey Area (oceanic) ² .
	<i>Sterna hirundo</i>	Common Tern	IA	MI, MA	Low	55 DBCA records within 20 km of the Survey Area, including records from 12.1 km of the Survey Area in 2014 and 10.9 km south of the Survey Area in 2003 ¹ . No suitable habitat present in the Survey Area (coastal, near-coastal saltworks, sewage ponds) ³ .
	<i>Sterna sumatrana</i>	Black-naped Tern	IA	MI, MA	Low	One DBCA record within 20 km of the Survey Area, 14.2 km west of the Survey Area in 1981 ¹ . No suitable habitat present in the Survey Area (oceanic) ³ .
	<i>Sternula albifrons</i>	White-shafted Little Tern	IA	MI, MA	Low	243 DBCA records within 20 km of the Survey Area, including records from 7.7 km south of the Survey Area in 2013 and 11.3 km south of the Survey Area in 2007 ¹ . No suitable habitat present in the Survey Area (coastal, estuaries, mangroves, near-coastal saltworks) ³ .
Motacillidae	<i>Thalasseus bergii</i>	Greater Crested Tern	IA	MI, MA	Low	324 DBCA records within 20 km of the Survey Area, including records from 12.1 km south of the Survey Area in 2017 and 11.3 km south of the Survey Area in 2010 ¹ . No suitable habitat present in the Survey Area (coastal, estuaries, tidal creeks) ³ .
	<i>Motacilla cinerea</i>	Grey Wagtail	IA	MI, MA	Low	Two DBCA records within 20 km of the Survey Area, including records from 12.3 km south of the Survey Area in 2015 and 10.7 km south of the Survey Area in 2012 ¹ . No suitable habitat present in the Survey Area (fresh sandy or rocky streams, mown grass, ploughed land, sewage ponds) ⁴ .

Family	Scientific Name	Common Name	Conservation Status		Likelihood of Occurrence	Justification
			State	Federal		
Motacillidae	<i>Motacilla tschutschensis</i>	Yellow Wagtail	IA	MI, MA	Low	Five DBCA records within 20 km of the Survey Area, including records from 18.6 km southwest of the Survey Area in 2003 and 18.6 km southwest of the Survey Area in 2002 ¹ . Limited suitable habitat present in the Survey Area (damp short grass flats, swamp edges, sewage ponds, mowed grass) ³ .
Oceanitidae	<i>Oceanites oceanicus</i>	Wilson's Storm Petrel	IA	MI, MA	Low	12 DBCA records within 20 km of the Survey Area, including records from 12.3 km south of the Survey Area in 2015 and 13.5 km south of the Survey Area in 2015 ¹ . No suitable habitat present in the Survey Area (oceanic) ³ .
Pandionidae	<i>Pandion haliaetus cristatus</i>	Eastern Osprey	IA		Low	300 DBCA records within 20 km of the Survey Area, including records from 10.7 km south of the Survey Area in 2014 and 11.3 km south of the Survey Area in 2007 ¹ . No suitable habitat present in the Survey Area (beaches, coastal reaches of rivers, large inland waterbodies) ² .
Procellariidae	<i>Ardenna pacifica</i>	Wedge-tailed Shearwater	IA	MI, MA	Low	One DBCA record within 20 km of the Survey Area, 13.5 km south of the Survey Area in 2007 ¹ . No suitable habitat present in the Survey Area (oceanic) ³ .
	<i>Ardenna tenuirostris</i>	Short-tailed Shearwater	IA	MI, MA	Low	One DBCA record within 20 km of the Survey Area, 18.4 km west of the Survey Area in 1999 ¹ . No suitable habitat present in the Survey Area (oceanic) ³ .
	<i>Bulweria bulwerii</i>	Bulwer's Petrel	IA	MI, MA	Low	One DBCA record within 20 km of the Survey Area, 18.7 km west of the Survey Area in 2000 ¹ . No suitable habitat present in the Survey Area (oceanic) ³ .
	<i>Calonectris leucomelas</i>	Streaked Shearwater	IA	MI, MA	Low	Seven DBCA records within 20 km of the Survey Area, including records from 13.0 km south of the Survey Area in 1999 and 18.7 km southwest of the Survey Area in 2000 ¹ . No suitable habitat present in the Survey Area (oceanic) ³ .
	<i>Macronectes halli</i>	Northern Giant Petrel	IA	VU, MI, MA	Low	One DBCA record within 20 km of the Survey Area, 18.4 km west of the Survey Area in 2011 ¹ . No suitable habitat present in the Survey Area (salt lakes, brackish pools, claypans, sheltered estuaries, salt marsh lagoons) ⁴ .
	<i>Puffinus huttoni</i>	Hutton's Shearwater	EN	MA	Low	Five DBCA records within 20 km of the Survey Area, including records from 17.5 km southwest of the Survey Area in 2000 and 18.77 km southwest of the Survey Area in 1999 ¹ . No suitable habitat present in the Survey Area (oceanic, estuaries, bays, channels) ⁴ .
Psittaculidae	<i>Polytelis alexandrae</i>	Princess Parrot	P4	VU	Low	One DBCA record within 20 km of the Survey Area, 18.3 km southwest of the Survey Area in 1999 ¹ . No suitable habitat present in the Survey Area (spinifex with Eucalyptus, Acacia, desert oaks, hakeas around salt lakes) ¹² .
Rostratulidae	<i>Rostratula australis</i>	Australian Painted Snipe	EN	EN, MA	Low	18 DBCA records within 20 km of the Survey Area, including records from 14.1 km south of the Survey Area in 2017 and 6.9 km south of the Survey Area in 2004 ¹ .
Scolopacidae	<i>Actitis hypoleucos</i>	Common Sandpiper	IA	MI, MA	Low	401 DBCA records within 20 km of the Survey Area, including records from 12.4 km south of the Survey Area in 2017 and 10.7 km south of the Survey Area in 2011 ¹ . No suitable habitat present in the Survey Area (coastal, estuaries, mangroves, near-coastal salt lakes, lagoons, claypans, sewage ponds) ³ .

Family	Scientific Name	Common Name	Conservation Status		Likelihood of Occurrence	Justification
			State	Federal		
Scolopacidae	<i>Arenaria interpres</i>	Ruddy Turnstone	IA	MI, MA	Low	584 DBCA records within 20 km of the Survey Area, including records from 12.9 km south of the Survey Area in 2017 and 6.7 km southwest of the Survey Area in 2005 ¹ . No suitable habitat present in the Survey Area (coastal, tidal flats, ocean beaches, rocky shorelines) ² .
	<i>Calidris acuminata</i>	Sharp-tailed Sandpiper	IA	MI, MA	Low	280 DBCA records within 20 km of the Survey Area, including records from 6.2 km south of the Survey Area in 2015 and 5.9 km southeast of the Survey Area in 2004 ¹ . No suitable habitat present in the Survey Area (fresh or salt wetlands, lagoons, swamps, lakes, dams, soaks, sewage farms, temporary floodwaters) ⁴ .
	<i>Calidris alba</i>	Sanderling	IA	MI, MA	Low	74 DBCA records within 20 km of the Survey Area, including records from 12.0 km south of the Survey Area in 2015 and 12.1 km south of the Survey Area in 2014 ¹ . No suitable habitat present in the Survey Area (beaches, sandy tidal flats) ² .
	<i>Calidris canutus</i>	Red Knot	EN, IA	EN, MI, MA	Low	596 DBCA records within 20 km of the Survey Area, including records from 12.3 km southwest of the Survey Area in 2017 and 11.8 km south of the Survey Area in 2013 ¹ . No suitable habitat present in the Survey Area (coastal tidal flats) ² .
	<i>Calidris falcinellus</i>	Broad-billed Sandpiper	IA	MI, MA	Low	195 DBCA records within 20 km of the Survey Area, including records from 12.1 km south of the Survey Area in 2015 and 11.2 km south of the Survey Area in 2007 ¹ . No suitable habitat present in the Survey Area (estuaries, near-coastal salt lakes, drying freshwater lakes) ³ .
	<i>Calidris ferruginea</i>	Curlew Sandpiper	CR, IA	CR, MI, MA	Low	597 DBCA records within 20 km of the Survey Area, including records from 11.9 km south of the Survey Area in 2017 and 5.9 km southeast of the Survey Area in 2004 ¹ . No suitable habitat present in the Survey Area (inter-tidal mudflats, estuaries, lagoons, mangrove channels, lakes, dams, floodwaters, flooded saltbush surrounds of inland lakes) ⁴ .
	<i>Calidris melanotos</i>	Pectoral Sandpiper	IA	MI, MA	Low	Seven DBCA records within 20 km of the Survey Area, including records from 13.0 km south of the Survey Area in 2015 and 10.7 km south of the Survey Area in 2014 ¹ . No suitable habitat present in the Survey Area (coastal fresh or saline wetlands, inland permanent or temporary wetlands, mudflats, swamps) ⁴ .
	<i>Calidris pugnax</i>	Ruff	IA		Low	13 DBCA records within 20 km of the Survey Area, including records from 10.7 km south of the Survey Area in 2014 and 10.7 km south of the Survey Area in 2012 ¹ . No suitable habitat present in the Survey Area (freshwater lakes, swamps, saltwork ponds, estuaries) ³ .
	<i>Calidris ruficollis</i>	Red-necked Stint	IA	MI, MA	Low	678 DBCA records within 20 km of the Survey Area, including records from 11.9 km south of the Survey Area in 2017 and 6.7 km southwest of the Survey Area in 2005 ¹ . No suitable habitat present in the Survey Area (mudflats, salt marshes, beaches, salt fields, temporary floodwaters) ⁴ .
	<i>Calidris subminuta</i>	Long-toed Stint	IA	MI, MA	Low	69 DBCA records within 20 km of the Survey Area, including records from 12.6 km south of the Survey Area in 2015 and 10.7 km south of the Survey Area in 2014 ¹ . No suitable habitat present in the Survey Area (muddy fringes of fresh wetlands) ² .

Family	Scientific Name	Common Name	Conservation Status		Likelihood of Occurrence	Justification
			State	Federal		
Scolopacidae	<i>Calidris tenuirostris</i>	Great Knot	CR, IA	CR, MI, MA	Low	736 DBCA records within 20 km of the Survey Area, including records from 12.8 km south of the Survey Area in 2017 and 6.7 km southwest of the Survey Area in 2005 ¹ . No suitable habitat present in the Survey Area (large tidal-flat systems) ² .
	<i>Gallinago megala</i>	Swinhoe's Snipe	IA	MI, MA	Low	Ten DBCA records within 20 km of the Survey Area, including records from 12.1 km south of the Survey Area in 2012 and 17.4 km southwest of the Survey Area in 2004 ¹ . No suitable habitat present in the Survey Area (freshwater swamps, streams, lagoons, sewage ponds) ³ .
	<i>Gallinago stenura</i>	Pin-tailed Snipe	IA	MI, MA	Low	Three DBCA records within 20 km of the Survey Area, including records from 14.3 km southwest of the Survey Area in 2011 and 17.6 km southwest of the Survey Area in 2004 ¹ . No suitable habitat present in the Survey Area (shallow freshwaters, river pools, sewage ponds, floodwaters) ³ .
	<i>Limnodromus semipalmatus</i>	Asian Dowitcher	IA	MI, MA	Low	204 DBCA records within 20 km of the Survey Area, including records from 12.1 km south of the Survey Area in 2014 and 11.4 km south of the Survey Area in 2010 ¹ . No suitable habitat present in the Survey Area (beaches, mudflats, sewage ponds) ² .
	<i>Limosa lapponica</i>	Bar-tailed Godwit	IA (CR subsp. level)	MI, MA (CR subsp. level)	Low	<i>L. lapponica</i> : 766 DBCA records within 20 km of the Survey Area, including records from 12.0 km south of the Survey Area in 2015 and 9.3 km south of the Survey Area in 2004 ¹ . No suitable habitat present in the Survey Area (coastal tidal flats) ² . <i>L. lapponica menzbieri</i> : 19 DBCA records within 20 km of the Survey Area, including records from 14.0 km southwest of the Survey Area in 2009 and 18.6 km southwest of the Survey Area in 2003 ¹ . No suitable habitat present in the Survey Area (coastal tidal flats) ² .
	<i>Limosa limosa</i>	Black-tailed Godwit	IA	MI, MA	Low	472 DBCA records within 20 km of the Survey Area, all records from 11.9 km south of the Survey Area in 2017 and 10.7 km south of the Survey Area in 2013 ¹ . No suitable habitat present in the Survey Area (shallow inland wetlands) ² .
	<i>Numenius madagascariensis</i>	Far Eastern Curlew (Eastern Curlew)	CR, IA	CR, MI, MA	Low	541 DBCA records within 20 km of the Survey Area, including records from 12.8 km south of the Survey Area in 2017 and 10.7 km south of the Survey Area in 2015 ¹ . No suitable habitat present in the Survey Area (coastal tidal flats) ² .
	<i>Numenius minutus</i>	Little Curlew	IA	MI, MA	Low	167 DBCA records within 20 km of the Survey Area, including records from 10.7 km south of the Survey Area in 2015 and 9.3 km south of the Survey Area in 2002 ¹ . No suitable habitat present in the Survey Area (dry grassland, plains and woodland of grassy understorey of clay and black soil plains) ² .
	<i>Numenius phaeopus</i>	Whimbrel	IA	MI, MA	Low	777 DBCA records within 20 km of the Survey Area, including records from 10.7 km south of the Survey Area in 2015 and 6.6 km southwest of the Survey Area in 2005 ¹ . No suitable habitat present in the Survey Area (coastal tidal flats, mangroves) ² .
	<i>Phalaropus lobatus</i>	Red-necked Phalarope	IA	MI, MA	Low	Six DBCA records within 20 km of the Survey Area, including records from 7.7 km south of the Survey Area in 1999 and 16.4 km southeast of the Survey Area in 2013 ¹ . No suitable habitat present in the Survey Area (near-coastal salt lakes) ³ .

Family	Scientific Name	Common Name	Conservation Status		Likelihood of Occurrence	Justification
			State	Federal		
Scolopacidae	<i>Tringa brevipes</i>	Grey-tailed Tattler	IA, P4	MI, MA	Low	633 DBCA records within 20 km of the Survey Area, including records from 12.0 km south of the Survey Area in 2015 and 6.7 km southwest of the Survey Area in 2005 ¹ . No suitable habitat present in the Survey Area (coastal tidal flat, rocky shorelines) ² .
	<i>Tringa glareola</i>	Wood Sandpiper	IA	MI, MA	Low	139 DBCA records within 20 km of the Survey Area, including records from 10.7 km south of the Survey Area in 2014 and 12.6 km south of the Survey Area in 2015 ¹ . No suitable habitat present in the Survey Area (freshwater wetlands) ² .
	<i>Tringa nebularia</i>	Common Greenshank	IA	MI, MA	Low	789 DBCA records within 20 km of the Survey Area, including records from 10.7 km south of the Survey Area in 2015 and 5.8 km southeast of the Survey Area in 2004 ¹ . No suitable habitat present in the Survey Area (permanent or temporary wetlands, swamps, lakes, flooded irrigated crops, mudflats, mangrove swamps) ⁴ .
	<i>Tringa stagnatilis</i>	Marsh Sandpiper	IA	MI, MA	Low	232 DBCA records within 20 km of the Survey Area, including records from 10.7 km south of the Survey Area in 2015 and 5.9 km southeast of the Survey Area in 2004 ¹ . No suitable habitat present in the Survey Area (fresh or brackish inland wetlands) ² .
	<i>Tringa totanus</i>	Common Redshank	IA	MI, MA	Low	95 DBCA records within 20 km of the Survey Area, including records from 10.7 km south of the Survey Area in 2015 and 12.0 km south of the Survey Area in 2008 ¹ . No suitable habitat present in the Survey Area (coastal wetland with mudflats and sandbars) ² .
	<i>Xenus cinereus</i>	Terek Sandpiper	IA	MI, MA	Low	488 DBCA records within 20 km of the Survey Area, including records from 12.0 km south of the Survey Area in 2015 and 10.9 km south of the Survey Area in 2003 ¹ . No suitable habitat present in the Survey Area (tidal flat, saltwork ponds) ² .
Stercorariidae	<i>Stercorarius parasiticus</i>	Arctic Skua (Parasitic Jaeger)	IA	MI, MA	Low	One DBCA record within 20 km of the Survey Area, 18.9 km southwest of the Survey Area in 1999 ¹ . No suitable habitat present in the Survey Area (oceanic, estuaries, harbours) ⁴ .
Sulidae	<i>Papasula abbotti</i>	Abbott's Booby		EN, MA	Low	No nearby records identified from the database searches or literature. Only returned by PMST which searches by modelled distribution, not actual records ⁵ . Restricted to Christmas Island and the surrounding waters.
	<i>Sula leucogaster</i>	Brown Booby	IA	MI, MA	Low	128 DBCA records within 20 km of the Survey Area, including records from 12.8 km south of the Survey Area in 2015 and 11.4 km south of the Survey Area in 2010 ¹ . No suitable habitat present in the Survey Area (oceanic) ³ .
Threskiornithidae	<i>Plegadis falcinellus</i>	Glossy Ibis	IA	MI, MA	Low	185 DBCA records within 20 km of the Survey Area, including records from 7.7 km south of the Survey Area in 2013 and 5.8 km southeast of the Survey Area in 2004 ¹ . No suitable habitat present in the Survey Area (shallow, fresh water) ² .
Tytonidae	<i>Tyto novaehollandiae kimberli</i>		P1	VU	Low	Two DBCA records within 20 km of the Survey Area, 17.5 km southwest of the Survey Area in 1909 and 18.5 km southwest of the Survey Area in 1900 ¹ . No suitable habitat present in the Survey Area (Eucalypt open forests with tree hollows for nesting and nearby closed monsoon forest for roosting) ² .
MAMMALIAN						

Family	Scientific Name	Common Name	Conservation Status		Likelihood of Occurrence	Justification
			State	Federal		
Dasyuridae	<i>Dasyurus hallucatus</i>	Northern Quoll	EN	EN	Low	One DBCA record within 20 km of the Survey Area, 17.5 km southwest of the Survey Area in 2015 ¹ . No suitable habitat present in the Survey Area (rocky escarpments, Eucalypt forest and woodland) ⁶ .
	<i>Phascogale tapoatafa kimberleyensis</i>	Kimberley Brush-tailed Phascogale	VU	VU	Low	One DBCA record within 20 km of the Survey Area, 16.5 km south of the Survey Area (no date; Department of Biodiversity Conservation and Attractions, 2021). No suitable habitat present in the Survey Area (coastal and near coastal areas in the tropical north from Kalumburu to Broome) ⁷ .
Emballonuridae	<i>Saccolaimus saccolaimus nudicluniat</i>	Bare-rumped Sheath-tailed Bat	P3	VU	Low	No nearby records identified from the database searches or literature. Only returned by PMST which searches by modelled distribution, not actual records ⁵ . No suitable habitat present in the Survey Area (coastal Eucalypt woodland with tree hollows) ⁶ .
Macropodidae	<i>Lagorchestes conspicillatus leichardti</i>	Spectacled Hare-wallaby	P4		Low	30 km south of the Survey Area in 2005 ⁸ . No suitable habitat present in the Survey Area (tropical grassland) ⁶ .
Molossidae	<i>Ozimops cobourgianus</i>	Northern Coastal Free-tailed Bat	P1		Low	Two DBCA records within 20 km of the Survey Area, 11.0 km west and 18.7 km southwest of the Survey Area in 2016 ¹ . No suitable habitat present in the Survey Area (<i>Avicennia marina</i> tree hollows) ⁹ .
Muridae	<i>Hydromys chrysogaster</i>	Water Rat	P4		Low	One DBCA record within 20 km of the Survey Area, 19.4 km southwest of the Survey Area in 1971 ¹ . No suitable habitat present in the Survey Area (permanent fresh or brackish water bodies) ⁶ .
	<i>Mesembriomys macrurus</i>	Golden-backed Tree-rat	P4		Low	No recent nearby records, presumed extinct in southwest Kimberley. Restricted to northwest Kimberley. Limited suitable habitat present in the Survey Area (Eucalypt-Acacia woodlands on red sandy plains with rainfall >600mm) ⁹ .
	<i>Xeromys myoides</i>	False Water Rat		VU	Low	No nearby records identified from the database searches or literature. Only returned by PMST which searches by modelled distribution, not actual records ⁵ . No suitable habitat present in the Survey Area (mangroves and the associated saltmarsh, sedgelands, clay pans, heathlands and freshwater wetlands) ¹⁰ .
Peramelidae	<i>Isoodon auratus auratus</i>	Golden Bandicoot	VU	VU	Low	No recent nearby records, presumed extinct in southwest Kimberley. No suitable habitat present in the Survey Area (sand-dune and sandplain country with spinifex formations in arid zone, sandplains with Acacia and Eucalyptus woodlands over tussock grasses in tropical semiarid zone, rugged sandstone-spinifex country and volcanic country in tropical, subhumid north-western Kimberley) ⁹ .
Phalangeridae	<i>Trichosurus vulpecula arnhemensis</i>	Northern Brushtail Possum	VU	VU	Low	Nine DBCA records within 20 km of the Survey Area, including records from 16.1 km west of the Survey Area in 2009 and 19.0 km southwest of the Survey Area in 2016 ¹ . No suitable habitat present in the Survey Area (woodlands to forests with sufficient tree hollows and ground refuges) ⁹ .
Phalangeridae	<i>Wyulda squamicaudata</i>	Scaly-tailed Possum	P4		Low	No recent nearby records. No suitable habitat present in the Survey Area (coastal rocky rugged Kimberley with rainfall >900mm) ⁶ .

Family	Scientific Name	Common Name	Conservation Status		Likelihood of Occurrence	Justification
			State	Federal		
Potoroidae	<i>Bettongia lesueur graii</i>	Boodie	EX	EX	Low	Extinct.
Thylacomyidae	<i>Macrotis lagotis</i>	Greater Bilby, Dalgite	VU	VU	High	159 DBCA records within 20 km of the Survey Area, including records from 0.2 km north of the Survey Area in 2002 and 3.9 km north of the Survey Area in 2019 ¹ . Potential Greater Bilby burrows and scats were found within 1.5 km of the Survey Area in 2017 ¹³ and Greater Bilby burrows and scats were found 10.5 km west northwest of the Survey Area in 2019 ¹⁴ . Suitable habitat present in the Survey Area (Mitchell grass and stony downs country of cracking clays, desert sandplains and dune fields sometimes containing laterite, hummock grassland and massive red earths with <i>Acacia</i> shrubland) ⁶ .
REPTILIAN						
Elapidae	<i>Simoselaps minimus</i>	Dampierland Burrowing Snake	P2		Low	24 km southwest of the Survey Area in 2005 ⁸ . No suitable habitat present in the Survey Area (coastal dunes and sandy junction between dunes and adjacent <i>Acacia</i> shrubland) ¹¹ .
Scincidae	<i>Ctenotus angusticeps</i>	Northwestern Coastal Ctenotus	P3		Low	21 DBCA records within 20 km of the Survey Area, including records from 13.8 km southwest of the Survey Area in 2017 and 12.8 km south of the Survey Area in 2012 ¹ . No suitable habitat present in the Survey Area (coastal mudflats vegetated with samphire) ¹¹ .
	<i>Lerista separanda</i>	Dampierland Plain Slider	P2		Low	24 km southwest of the Survey Area in 2005 ⁸ . No suitable habitat present in the Survey Area (sandy southwest Kimberley coast) ¹¹ .

¹ (Department of Biodiversity Conservation and Attractions, 2021b), ² (Menkhorst et al., 2017), ³ (Johnstone and Storr, 1998), ⁴ (Morcombe, 2017), ⁵ (Department of Agriculture Water and the Environment, 2021b), ⁶ (Van Dyck and Strahan, 2008), ⁷ (Threatened Species Scientific Committee, 2016), ⁸ (ALA, 2022), ⁹ (Menkhorst and Knight, 2004), ¹⁰ (Department of Agriculture Water and the Environment, 2021a), ¹¹ (Wilson and Swan, 2017) ¹² (Pizzey and Knight, 2001), ¹³ (AECOM Australia Pty Ltd, 2017), ¹⁴ (GHD, 2019)

5 Discussion

5.1 Flora and Vegetation

5.1.1 Flora Composition

The suite of flora taxa recorded during the survey is considered typical for the respective areas (Beard, 1976) and aligns with the database search results obtained.

Low rainfall was recorded in the three months prior to the survey, which was lower than the expected range for the bioregion over the same period. Only 1.5 mm was recorded in this period, 3.4 mm below the already low average of 4.9 mm. Many dead herbs and grasses were observed during the survey and several specimens were unable to be identified to species level due to their sterility; this is likely due to the limited rainfall experienced in the area and the survey having been undertaken outside of the recommended primary survey period. Additional annual and ephemeral species may be recorded after significant rainfall.

5.1.2 Survey Adequacy

The flora and vegetation survey effort was in accordance with the scope of works, and appropriate for a reconnaissance flora and vegetation survey in the Kimberley. The inventory of vascular flora, and records of conservation significant flora and weed species was compiled using site data and opportunistic observations made while traversing between sites and during systematic targeted searching within the proposed footprint areas. The entire Survey Area was not systematically searched, and therefore additional flora taxa, and records of conservation significant flora and weed species may be recorded with additional survey effort and within the recommended primary survey period.

5.1.3 Flora of Conservation Significance

No Threatened flora species pursuant to the EPBC Act 1999 and/or gazetted as Threatened Flora pursuant to the BC Act 2016 were identified by the database searches or recorded within the Survey Area.

Four individuals of *Terminalia kumpaja* (P3) were recorded from a single location within the Survey Area. *Terminalia kumpaja* (P3) is a small tree that grows on sandy soil along the coast of the Dampier Botanical District up to a height of 6 m (Barrett, 2015). The species was previously included in with the closely-related *Terminalia cunninghamii* and has a number of morphological differences, such as having smaller and narrower leaves (7-28 mm wide), that separate it from *T. cunninghamii* (Barrett, 2015). The WAH has 22 specimens lodged, with most records spatially restricted around the Broome and Eight Mile Beach regions of the Kimberley (Western Australian Herbarium, 2020).

The species was present growing on the red pindan sands in association with *Acacia eriopoda* shrubland and isolated *Corymbia greeniana* and *Gardenia pyriformis* subsp. *keartlandii* over sparse *Sorghum* sp. tussock and *Triodia schinzii* hummock grasses. Given that the Survey Area was not systematically searched, it is possible that other individuals of this taxon occur in the Survey Area.

No taxa recorded from the Survey Area were considered flora of other conservation significance.

5.1.4 Introduced Flora

Six weed species were recorded in the Survey Area; however, none are listed as WoNS or DPs. The weed species recorded (**Aerva javanica*, **Azadirachta indica*, **Sida cordifolia*, **Stylosanthes hamata*, **Amaranthus viridis*, **Passiflora foetida*) have a legal status of Permitted – s11, and do not have an assigned control category.

Weed species richness and abundance was most notably in and around previously cleared areas and adjacent to farms, properties and infrastructure.

The survey was undertaken after a period of below average rainfall, and the Survey Area was not systematically grid searched. Additional weed species and abundance could be recorded following significant rainfall and with systematic searching.

5.1.5 Vegetation Types

None of the vegetation recorded in the Survey Area is representative of any TECs or PECS or groundwater-dependent vegetation.

Mapping reliability is considered to be very high across the Survey Area.

One broad landform was recorded within the Survey Area, and vegetation within the Survey Area was representative of existing broad scale vegetation and soil and land system mapping for the area.

The entirety of the Survey Area comprised of flat plains, with red brown pindan sands. This landform was characterised by tall open *Acacia* shrubland dominated by *Acacia eriopoda* over low sparse shrubs of *Acacia tumida*, *Grevillea refracta*, *Capparis lasiantha*, *Hakea macrocarpa*, *Santalum lanceolatum* over open *Sorghum* sp. tussock and *Triodia schinzii* hummock grassland. Trees were typically sparse to scattered comprising *Corymbia greeniana*, *Bauhinia cunninghamii*, *Gardenia pyriformis* subsp. *keartlandii*, *Eucalyptus ?microtheca* and *Brachychiton diversifolius* subsp. *diversifolius*. This vegetation type ('Mixed *Acacia* Shrubland') was extrapolated via aerial imagery to 500 m beyond the survey area, as there was no visual difference in the aerial imagery over this area.

5.2 Vertebrate Fauna

5.2.1 Fauna Habitat

The *Acacia* Shrubland fauna habitat identified within the Survey Area is typical of the Dampierland bioregion and consistent with habitats identified by previous studies in the region (GHD, 2009, 2010, 2015, 2018, 2019; 360 Environmental Pty Ltd, 2017; AECOM Australia Pty Ltd, 2017; Ecoscape (Australia) Pty Ltd, 2017; Spectrum Ecology, 2020). The *Acacia* Shrubland fauna habitat extended outside the Survey Area, forming part of a larger ecosystem.

The *Acacia* Shrubland provides habitat for numerous native fauna species including conservation significant species: Pacific Swifts, Peregrine Falcons, and Greater Bilbies. The Planted, Non-native Garden Vegetation and Cleared habitats within the Survey Area may be used the following conservation significant species: Barn Swallows, Grey Falcons, Oriental Pratincoles,

Pacific Swifts, and Peregrine Falcons. These habitats may flood during the wet season, providing a temporary water source and increased habitat opportunities for fauna species.

During the field survey, 41 fauna species (36 birds, four mammals, and one reptile) from 28 families were recorded within the *Acacia* Shrubland habitat. Numerous bird species were seen nesting and foraging within the *Acacia* Shrubland habitat.

Habitat condition varied throughout the Survey Area. Large portions of the Survey Area had been cleared for tracks, paddocks, and infrastructure.

5.2.2 Conservation Significant Fauna

5.2.2.1 High Likelihood

Greater Bilby (*Macrotis lagotis*)

The Greater Bilby is a solitary and nocturnal type of bandicoot, characterised by its distinct rabbit like ears and long face with a pointed snout (Department of Biodiversity Conservation and Attractions, 2017a). The range of the Greater Bilby has declined northwards, with wild subpopulations now restricted predominantly to the Tanami Desert in the Northern Territory and the Gibson, Little Sandy and Great Sandy Deserts as well as parts of the Pilbara and Kimberley/Dampierland region in Western Australia (Southgate, 1990; Department of Biodiversity Conservation and Attractions, 2017a). The Greater Bilby is described as occupying a wide range of vegetation types, including open tussock grassland on upland hills, mulga woodland/shrubland growing on ridges and rises and spinifex growing on sandplains and dunes, drainage systems, salt lake systems and other alluvial areas (Pavey, 2006; Department of Biodiversity Conservation and Attractions, 2017a).

The Greater Bilby is omnivorous, consuming a range of invertebrates, including beetles, termites, and root-dwelling larvae, as well as plant material including seeds and bulbs. Many of the plant taxa containing root-dwelling larvae consumed by bilbies are *Acacia* species, thus some species can be used as indicators of Greater Bilby presence and likelihood of occurrence (Dziminski and Carpenter, 2017; Southgate *et al.*, 2018). The following *Acacia* species identified during the field survey have had consistent and repeatable observations of Greater Bilbies digging into the roots to obtain root dwelling larvae; *A. colei* (Warralong, Warrawagine, Warburton ranges, Pilbara, Dampier Peninsula, La Grange), *A. eriopoda* (Dampier Peninsula), *A. monticola* (Pardoo, Twin Bonanza mine, Western Great Sandy Desert, La Grange), and *A. tumida* (Dampier Peninsula, La Grange) (Dziminski and Carpenter, 2017; Southgate *et al.*, 2018).

No sightings or secondary signs (burrows, tracks and scats) of the Greater Bilby were recorded during the field survey. The desktop assessment identified numerous nearby records of the Greater Bilby and the species may use habitats within the Survey Area for foraging and shelter. Potential Greater Bilby burrows and scats were found within 1.5 km of the Survey Area in 2017 (AECOM Australia Pty Ltd, 2017) and Greater Bilby burrows and scats were found 10.5 km west northwest of the Survey Area in 2019 (GHD, 2019). The DBCA database search returned Greater Bilby records 0.2 km north of the Survey Area in 2002 and 3.9 km north of the Survey Area in 2019 (Department of Biodiversity Conservation and Attractions, 2021b). The soils within the Survey Area are a sandy loam, and therefore suited to the deep, complex burrows the species

uses for daytime shelter (Menkhorst and Knight, 2004). Termite mounds, a food source for Greater Bilbies, and Greater Bilby indicator species (*A. colei*, *A. eriopoda*, *A. monticola*, and *A. tumida*) were also present in the Survey Area. As all records mentioned above, are found in the same continuous vegetation type (*Acacia* Shrubland), and many of the observed habitat components are suitable for Greater Bilbies, it is highly likely that Greater Bilbies would utilise the *Acacia* Shrubland habitat in the Survey Area.

Pacific Swift (*Apus pacificus*)

The Pacific Swift is almost exclusively aerial, flying from less than 1 m to at least 300 m above ground and probably much higher. The Pacific Swift occupies a large airspace range (i.e. low to very high) over varied habitats, ranging from rainforests to semi-deserts (Morcombe, 2003).

The Pacific Swift was not recorded during the field survey. Although the species has the potential to occur in the airspace above the Survey Area, it will not be reliant on the terrestrial habitats of the Survey Area.

5.2.2.2 Medium Likelihood

Barn Swallow (*Hirundo rustica*)

The Barn Swallow is only a casual visitor primarily to coastal areas from the Gascoyne north, although the species may appear as a vagrant in inland areas on an irregular basis (Johnstone and Storr, 1998). After breeding in the temperate and subtropical regions of North America, Europe, northern Africa and Asia it migrates to the southern hemisphere where it spends the boreal winter (Johnstone and Storr, 1998). It is typically observed in the vicinity of urban water bodies and coastal wetlands.

The Barn Swallow was not recorded during the field survey. The Planted, Non-native Garden Vegetation and Cleared habitats within the Survey Area may be used by this species.

Grey Falcon (*Falco hypoleucos*)

The Grey Falcon is an elusive and endemic bird of the arid interior (Schoenjahn, Pavey and Walter, 2019). It distributed sparsely over Australia's arid and semi-arid zones and is absent from Cape York Peninsula, south of the Great Dividing Range in Victoria, and south of 26°S in Western Australia (Johnstone and Storr, 1998; BirdLife International, 2016). The Grey Falcon is restricted largely to areas of the highest annual average temperatures where there is average annual rainfall of less than 500 mm. It favours lightly timbered and untimbered lowland plains that are crossed by tree lined watercourses, but frequents other habitats, including grassland and sand dune habitats (Johnstone and Storr, 1998; BirdLife International, 2016).

The Grey Falcon was not recorded during the field survey. The Grey Falcon is unlikely to use the Survey Area for nesting, however, all habitats within the Survey Area may be used for hunting.

Oriental Pratincole (*Glareola maldivarum*)

The Oriental Pratincole typically prefers plains, shallow wet and dry edges of open bare wetlands and tidal mudflats and beaches for habitat (Pizzey and Knight, 2013). However, as this species breeds in Pakistan, India and parts of south-east Asia, the Survey Area would most likely be used for foraging only (Pizzey and Knight, 2013).

The Oriental Pratincole was not recorded during the field survey. The Planted, Non-native Garden Vegetation and Cleared habitats within the Survey Area may be used by this species.

Peregrine Falcon (*Falco peregrinus*)

The Peregrine Falcon is an uncommon but wide-ranging bird across Australia (Barrett et al., 2003). It occurs mainly along rivers and ranges as well as wooded watercourses and lakes. It nests primarily on cliffs, granite outcrops and quarries, although is also known to occupy existing raptor and corvid stick nests (Menkhorst et al., 2017). The diet of the Peregrine Falcon has been well studied and primarily includes flocking species such as parrots, pigeons and on the east coast, European Starlings (Olsen and Fuentes, 2008).

The Peregrine Falcon typically nests on cliff ledges or in refurbished nests built by other raptors or corvids (Pizzey and Knight, 2013), therefore is unlikely to use the Survey Area for nesting. All habitats within the Survey Area may be used for hunting.

6 Conclusion

Flora and Vegetation

- One vegetation type was present within the Survey Area, Mixed *Acacia* Shrubland (*A. eriopoda*, *A. tumida*)
- Six introduced species were recorded during the survey. None of these species are listed as Weeds of National Significance by the Department of Energy and Environment (2018)
- One DBCA-listed Priority flora is considered to have been recorded; *Terminalia kumpaja* (P3)
- No Threatened flora species pursuant to the EPBC Act 1999 and/or gazetted as Threatened/Declared Rare Flora pursuant to the BC Act 2016 were recorded during the survey
- No TECs or PECs were recorded within the Survey Area.

Vertebrate Fauna

- Two native fauna habitats were mapped, *Acacia* Shrubland and Rehabilitation (*Acacia* Shrubland) which provide habitat for numerous bird, mammal, reptile and amphibian taxa
- The *Acacia* Shrubland within the Survey Area may be used by Pacific Swifts (high likelihood), Greater Bilbies (high likelihood), and Peregrine Falcons (medium likelihood)
- The Planted, Non-native Garden Vegetation and Cleared habitats within the Survey Area may be used by Pacific Swifts (high likelihood), Barn Swallows (medium likelihood), Grey Falcons (medium likelihood), Oriental Pratincoles (medium likelihood), and Peregrine Falcons (medium likelihood)
- No conservation significant fauna species were recorded during the fauna survey
- Two introduced species were recorded during the survey, European Cattle (*Bos primigenius taurus*) and Dingo/Dog (*Canis familiaris*).

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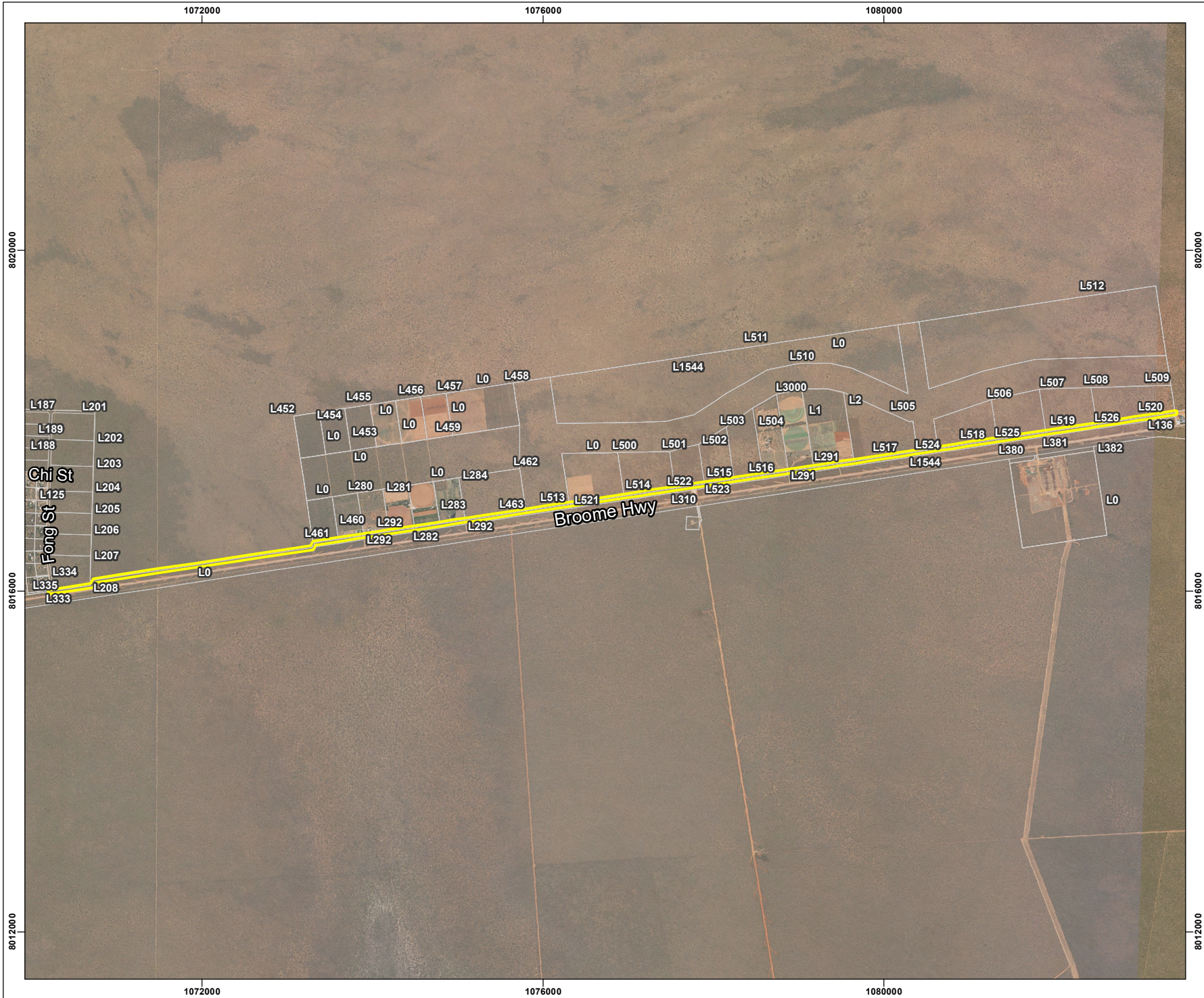
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Figures



Legend

Survey Area

Cadastral Lines

- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS

- LOCALITY MAP SOURCED LANDGATE 2021

- OTHER DATA SOURCED LANDGATE 2021

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LOCALITY MAP

PROJECT ID 4902		DATE 20/01/2022	
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Horizon Power

Broome to Skuthorpe Line Extension

Broome to Skuthorpe Line Extension

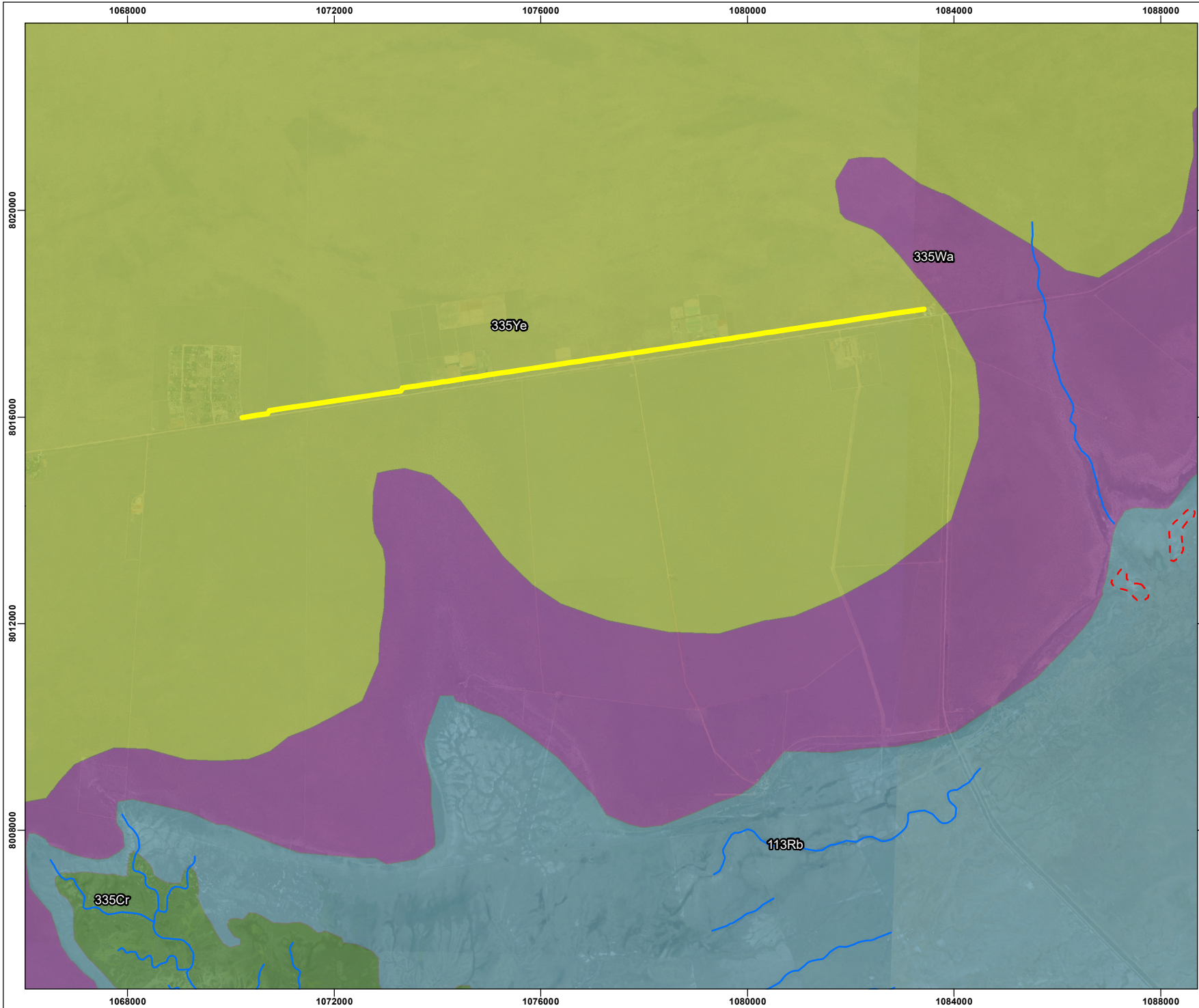
Flora and Fauna Survey

Figure 1

Survey Area

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Legend

Survey Area

Hydrography

Watercourse - minor

Area Subject to Inundation

Soil Land System

113Rb: Paleo-tidal coastal plains and tidal flats with saline soil supporting salt-water couch grasslands, samphire low shrublands, melaleuca thickets and mangroves.

335Cr: Coastal plains, extensive bare mud flats, associated sandy margins and minor dunes, saline sands and muds, supporting paperbark thickets, samphire shrublands and fringing mangrove forests.

335Wa: Sandplains and linear dunes supporting pindan woodlands with acacias and bloodwoods and curly spinifex- ribbon grass, and broad low-lying swales supporting bloodwood-grey box woodlands with c*

335Ye: Red sandplains supporting pindan vegetation with dense acacia shrubs, scattered bloodwood and grey box trees and curly spinifex and ribbon grass.

- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
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LOCALITY MAP

PROJECT ID4902

DATE20/01/2022

HORIZONTAL DATUM AND PROJECTION

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Horizon Power

Broom to Skuthorpe Line Extension

Broom to Skuthorpe Line Extension

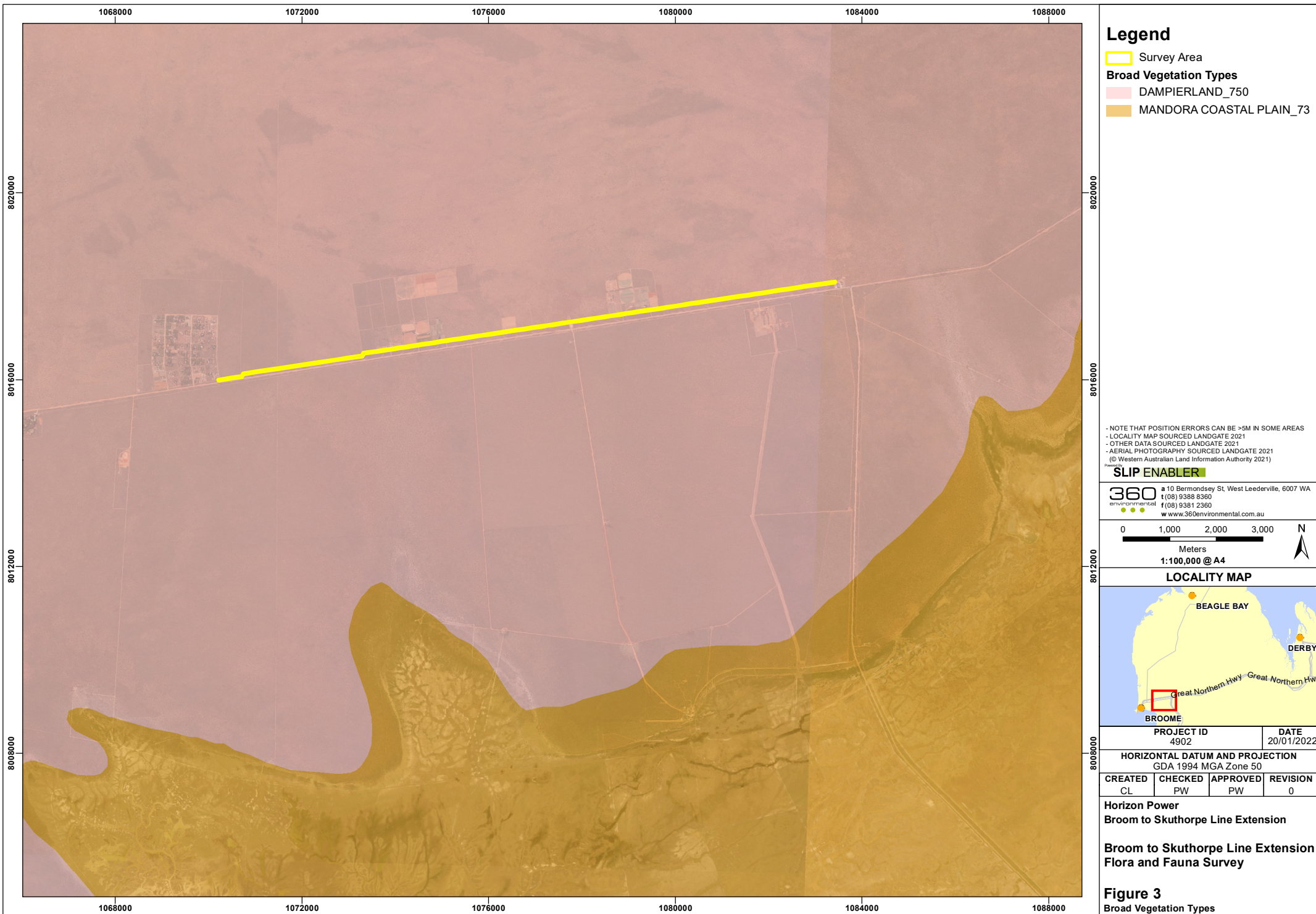
Flora and Fauna Survey

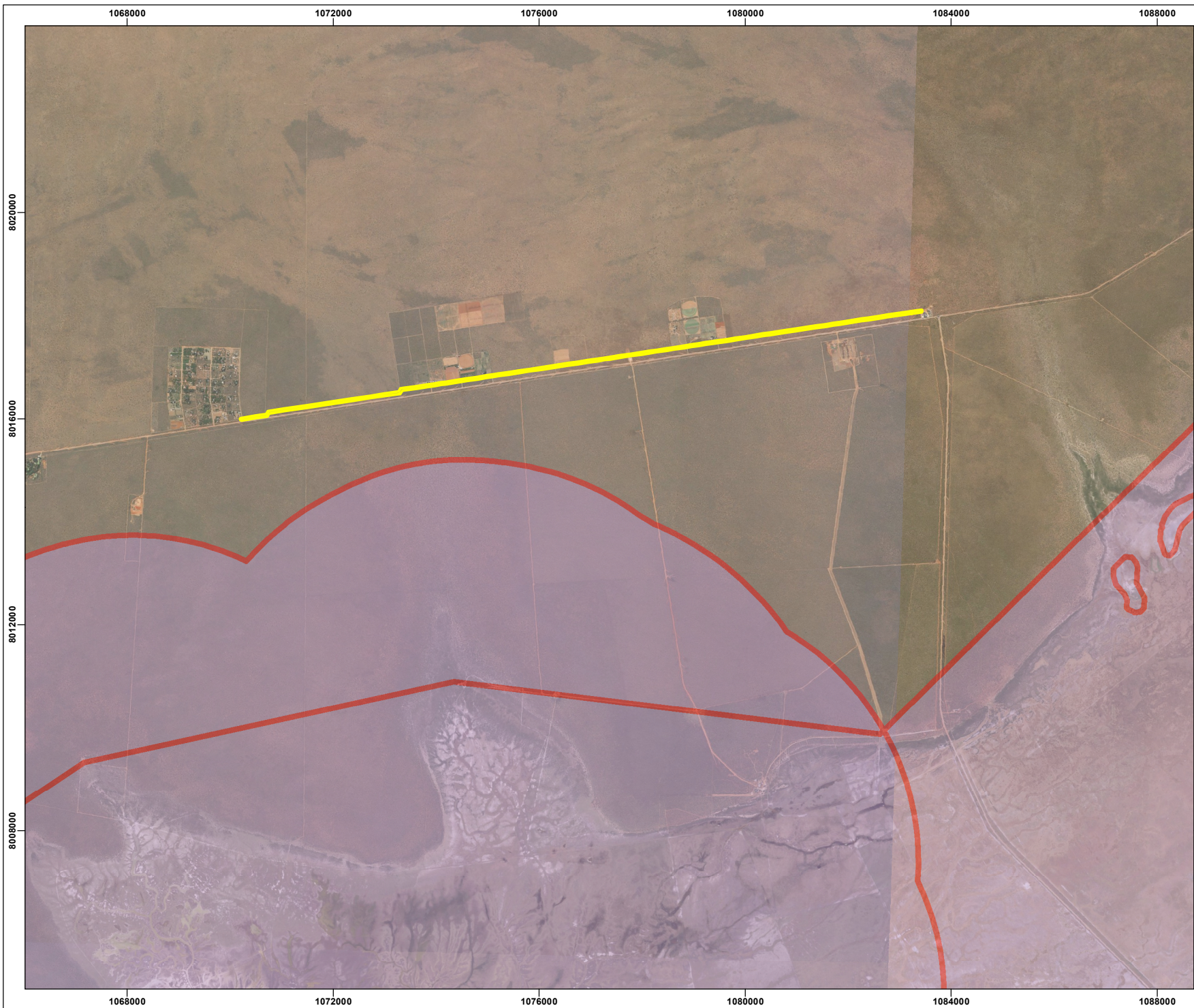
Figure 2

Soil Landscapes and Land


Systems, and Hydrography


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Legend

 Survey Area

 Environmentally Sensitive Areas

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LOCALITY MAP



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PROJECT ID 4902			DATE 20/01/2022
HORIZONTAL DATUM AND PROJECTION GDA 1994 MGA Zone 50			
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Horizon Power
Broom to Skuthorpe Line Extension

**Broom to Skuthorpe Line Extension
Flora and Fauna Survey
Figure 4
Conservation and Environmentally
Sensitive Areas**



Legend

Survey Area

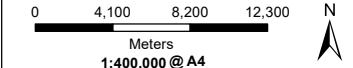
Threatened and Priority Flora Locations

- Aphyllodium parvifolium* (P1)
- Corymbia paractia* (P1)
- Ipomoea tolmerana* subsp. *occidentalis* (P1)
- Jacquemontia* sp. Broome (A.A. Mitchell 3028) (P1)
- Thespidium basiflorum* (P1)
- Gomphrena pusilla* (P2)
- Acacia monticola* x *tumida* var. *kulparn* (P3)
- Aphyllodium glossocarpum* (P3)
- Bonamia oblongifolia* (P3)
- Fuirena incrassata* (P3)
- Glycine pindanica* (P3)
- Goodenia byrnesii* (P3)
- Lophostemon grandiflorus* subsp. *grandiflorus* (P3)
- Nymphoides beaglenensis* (P3)
- Paranotis halfordii* (P3)
- Polymeria* sp. Broome (K.F. Kenneally 9759) (P3)
- Stylidium pindanicum* (P3)
- Tephrosia pedleyi* (P3)
- Tephrosia valleculea* (P3)
- Terminalia kumpaja* (P3)
- Pittosporum moluccanum* (P4)

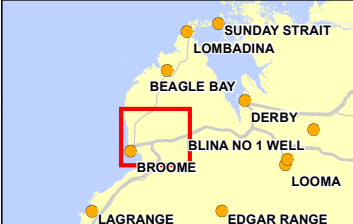
- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
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LOCALITY MAP



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HORIZONTAL DATUM AND PROJECTION			
GDA 1994 MGA Zone 50			

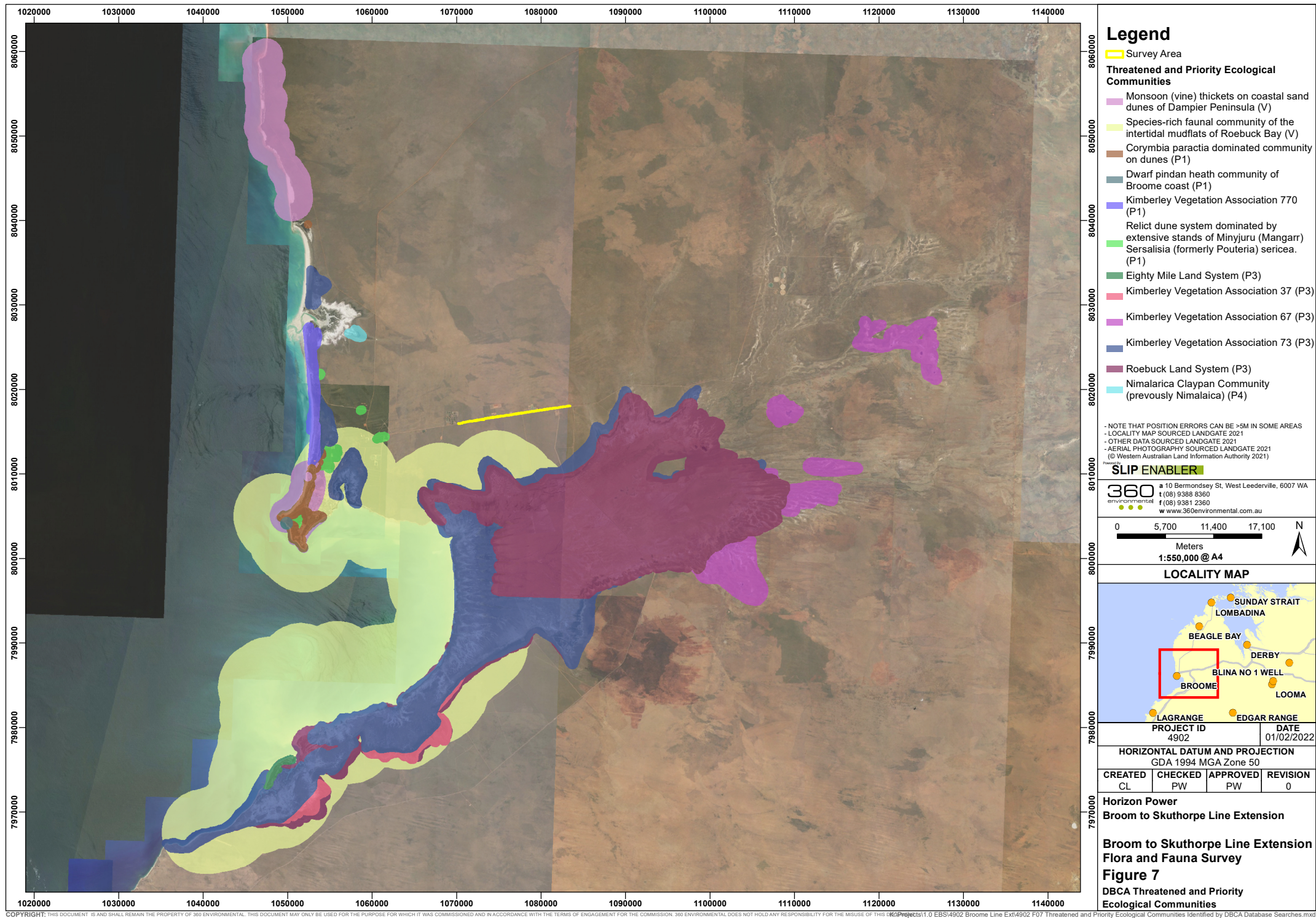
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CL	PW	PW	0

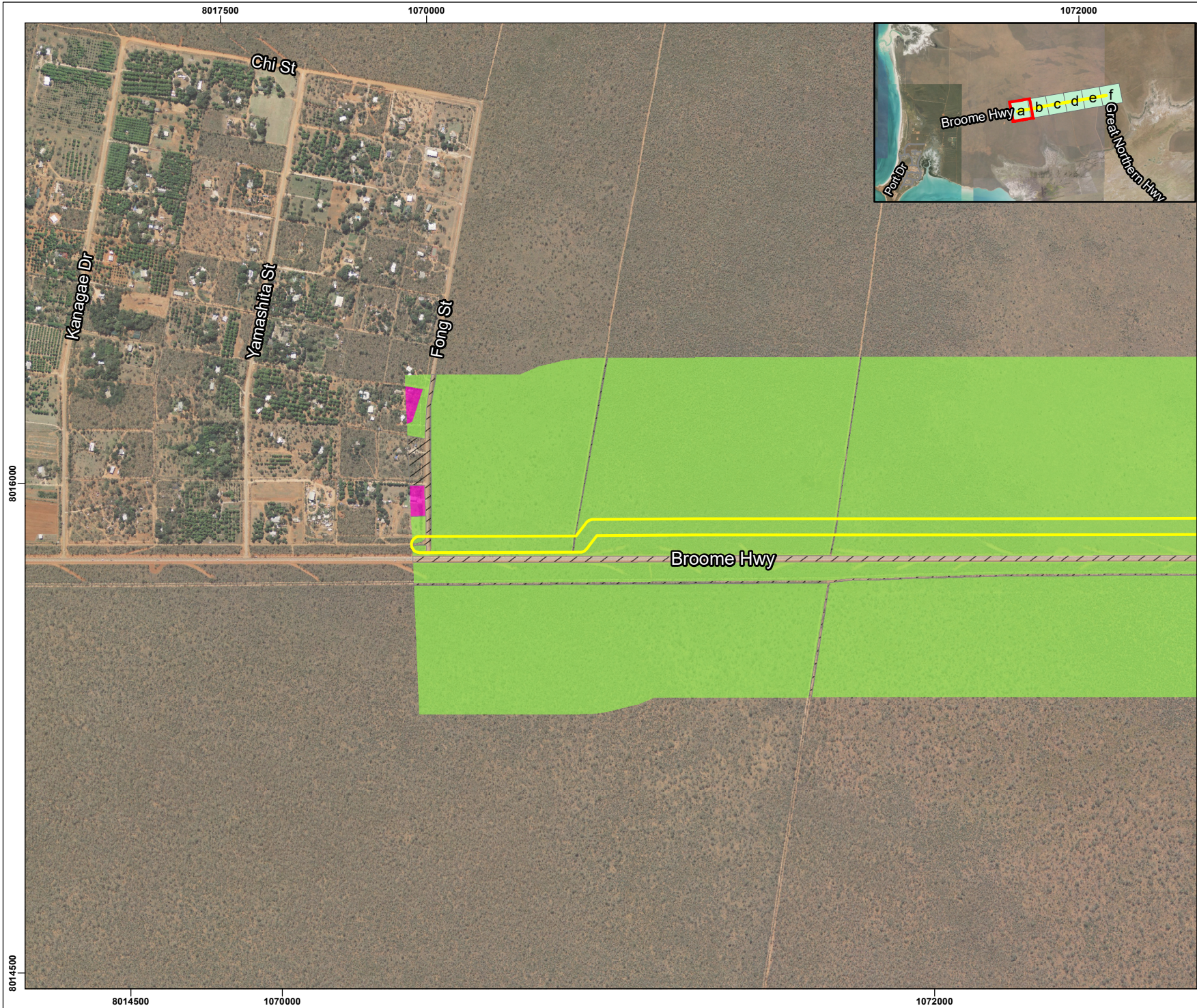
Horizon Power
Broome to Skuthorpe Line Extension

Broom to Skuthorpe Line Extension
Flora and Fauna Survey

Figure 6

DBCA Threatened and Priority
Flora Locations





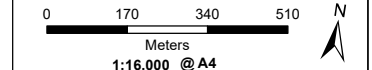
Legend

- Survey Area
- Vegetation Types**
 - Mixed *Acacia* shrubland
 - Planted, non-native garden vegetation
 - Cleared

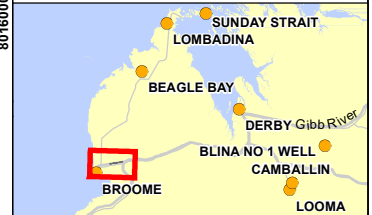
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Horizon Power
 Broom to Skuthorpe Line Extension

**Broom to Skuthorpe Line Extension
 Flora and Fauna Survey**

Figure 8a
 Vegetation Types and Priority Flora



Legend

- Survey Area
- Vegetation Types**
 - Horticulture/Private property
 - Mixed *Acacia* shrubland
 - Planted, non-native garden vegetation
 - Cleared

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LOCALITY MAP

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Horizon Power
 Broom to Skuthorpe Line Extension

**Broom to Skuthorpe Line Extension
 Flora and Fauna Survey**

Figure 8b
 Vegetation Types and Priority Flora



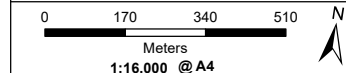
Legend

- Survey Area
- Priority Flora
- Vegetation Types**
 - Horticulture/Private property
 - Mixed Acacia shrubland
 - Planted, non-native garden vegetation
 - Rehabilitation
 - Cleared

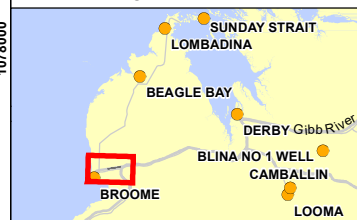
- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
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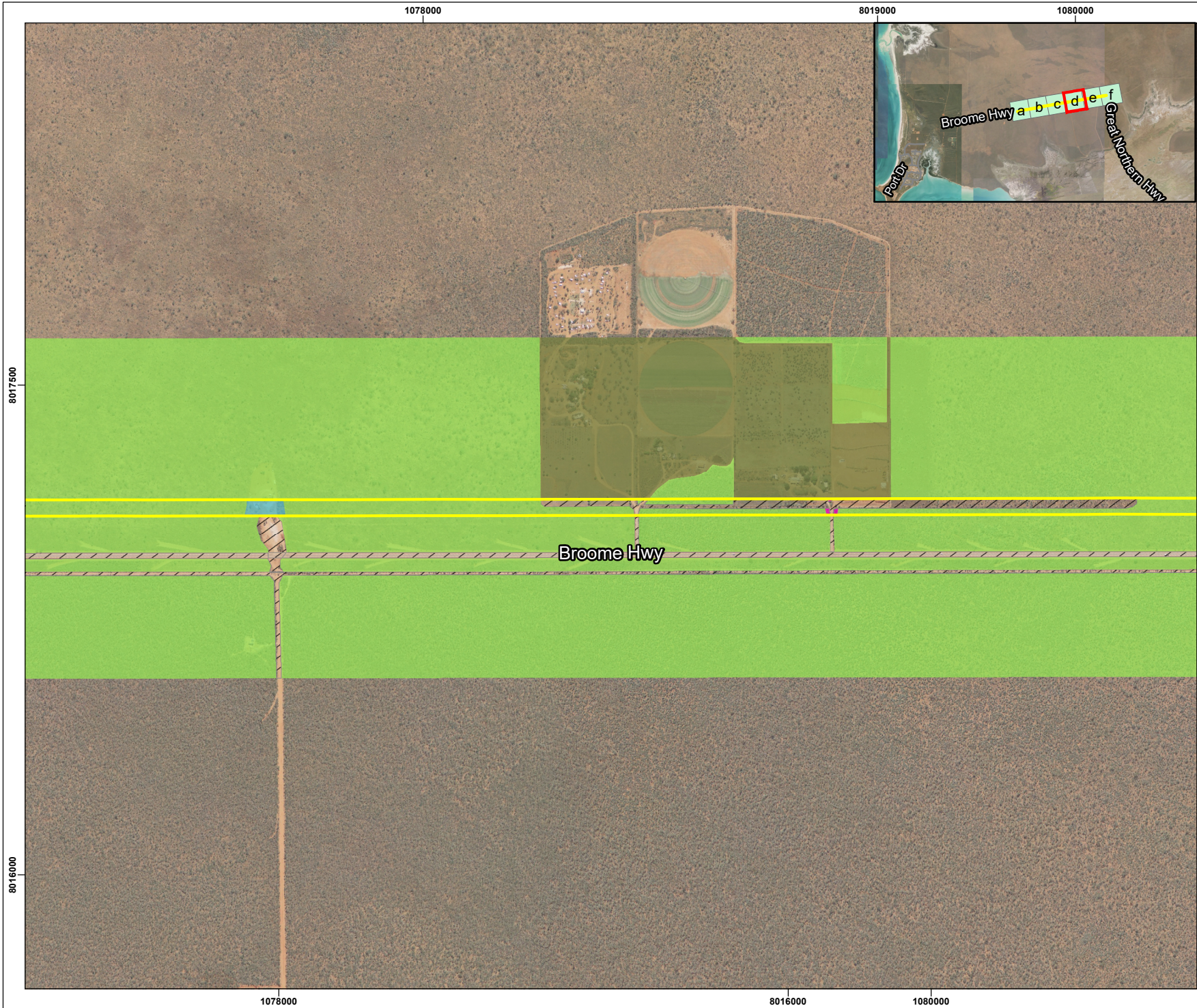
LOCALITY MAP



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Horizon Power
 Broom to Skuthorpe Line Extension
 Broom to Skuthorpe Line Extension
 Flora and Fauna Survey

Figure 8c
 Vegetation Types and Priority Flora



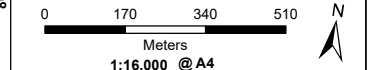
Legend

- Survey Area
- Vegetation Types**
 - Horticulture/Private property
 - Mixed *Acacia* shrubland
 - Planted, non-native garden vegetation
 - Rehabilitation
 - Cleared

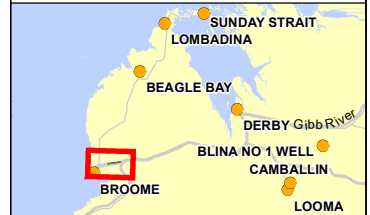
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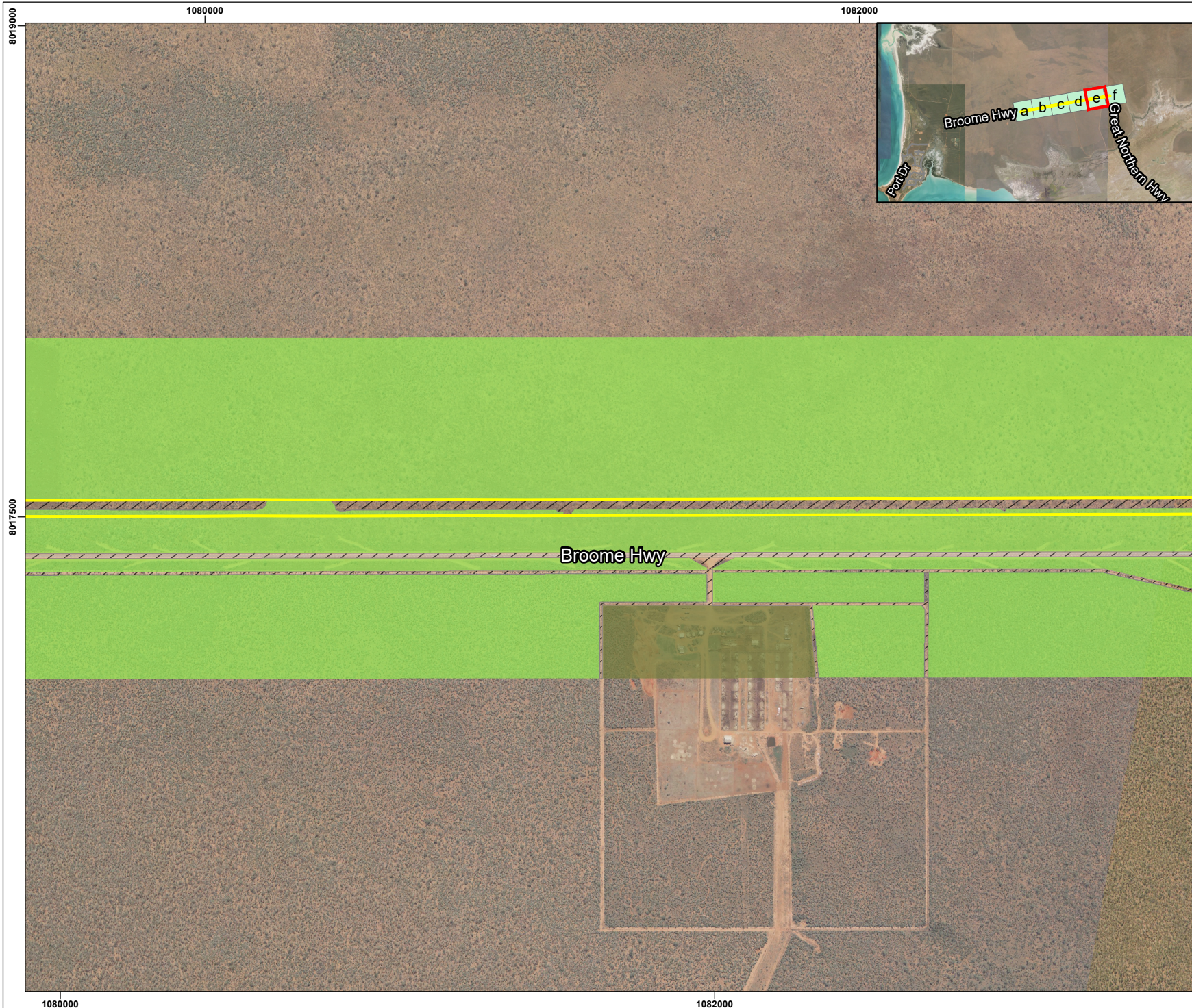


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CREATED CL	CHECKED PW	APPROVED PW	REVISION 0

Horizon Power
 Broome to Skuthorpe Line Extension

**Broome to Skuthorpe Line Extension
 Flora and Fauna Survey**

Figure 8d
Vegetation Types and Priority Flora



Legend

Survey Area

Vegetation Types

Horticulture/Private property

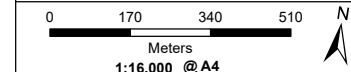
Mixed Acacia shrubland

Cleared

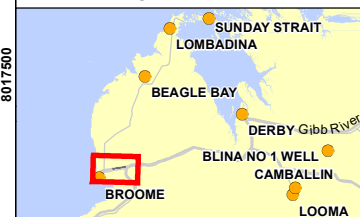
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Horizon Power
 Broom to Skuthorpe Line Extension

Broom to Skuthorpe Line Extension
 Flora and Fauna Survey

Figure 8e
 Vegetation Types and Priority Flora



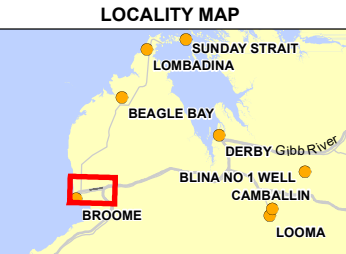
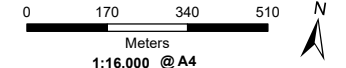
Legend

- Survey Area
- Vegetation Types
 - Mixed *Acacia* shrubland
 - Cleared

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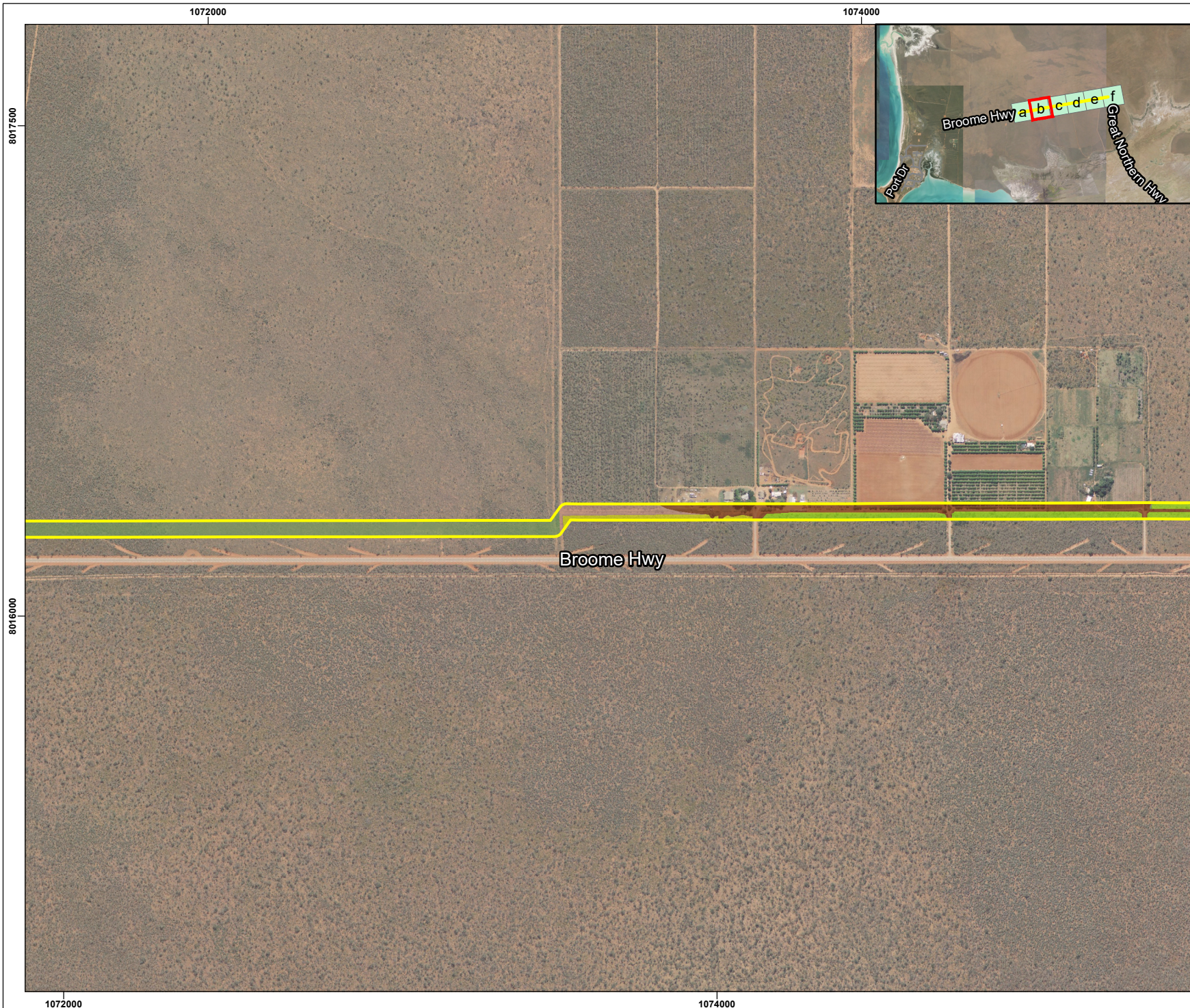


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Horizon Power
Broom to Skuthorpe Line Extension

Broom to Skuthorpe Line Extension
Flora and Fauna Survey

Figure 8f
Vegetation Types and Priority Flora



Legend

Survey Area

Vegetation Condition

- Excellent
- Very Good
- Good
- Degraded
- Completely Degraded

- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
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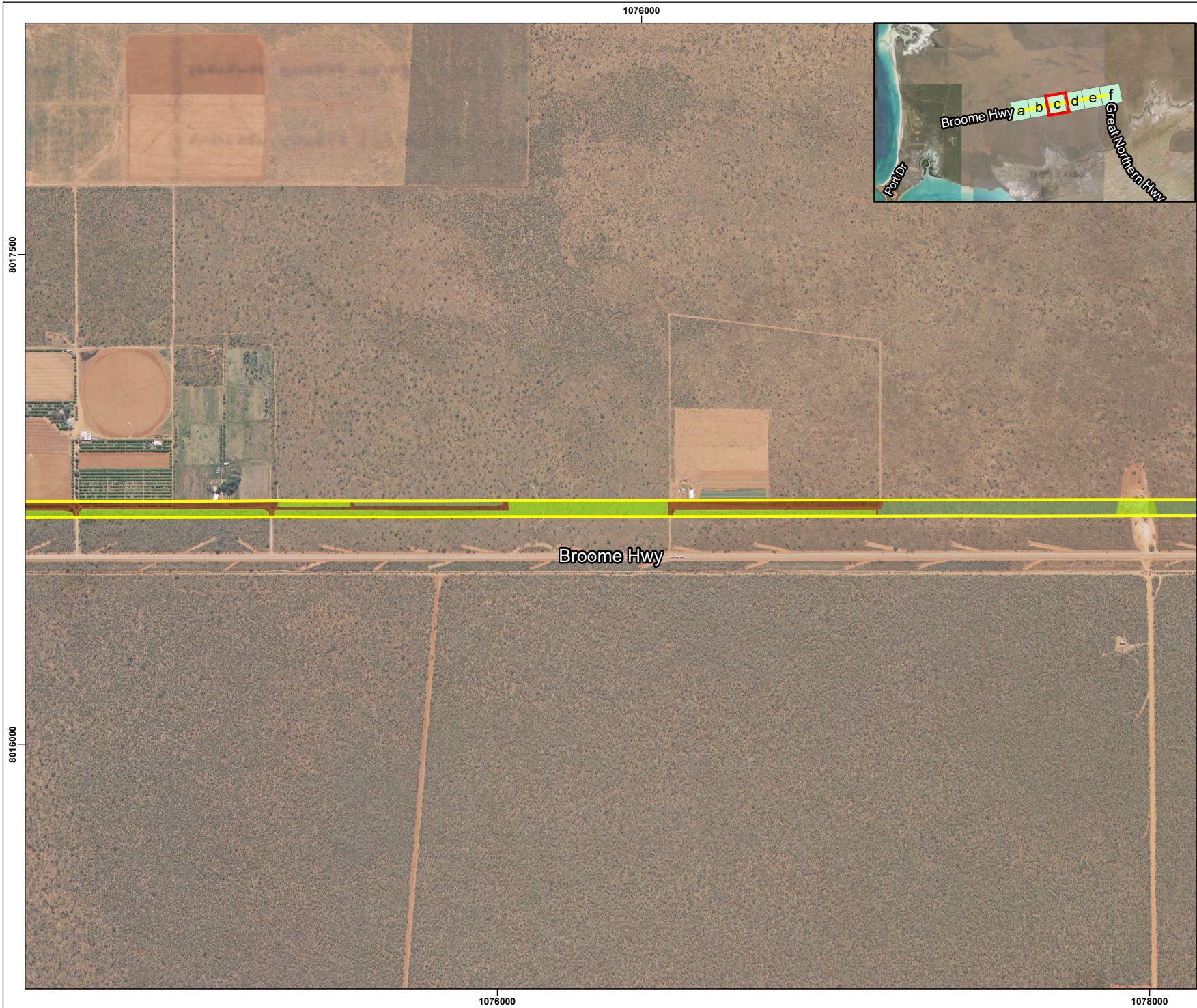
LOCALITY MAP

PROJECT ID 4902		DATE 01/02/2022	
HORIZONTAL DATUM AND PROJECTION GDA 1994 MGA Zone 50			
CREATED CL	CHECKED PW	APPROVED PW	REVISION 0

Horizon Power
 Broom to Skuthorpe Line Extension

**Broom to Skuthorpe Line Extension
 Flora and Fauna Survey**

Figure 9b
 Vegetation Condition



Legend

Survey Area

Vegetation Condition

Excellent

Very Good

Completely Degraded

- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
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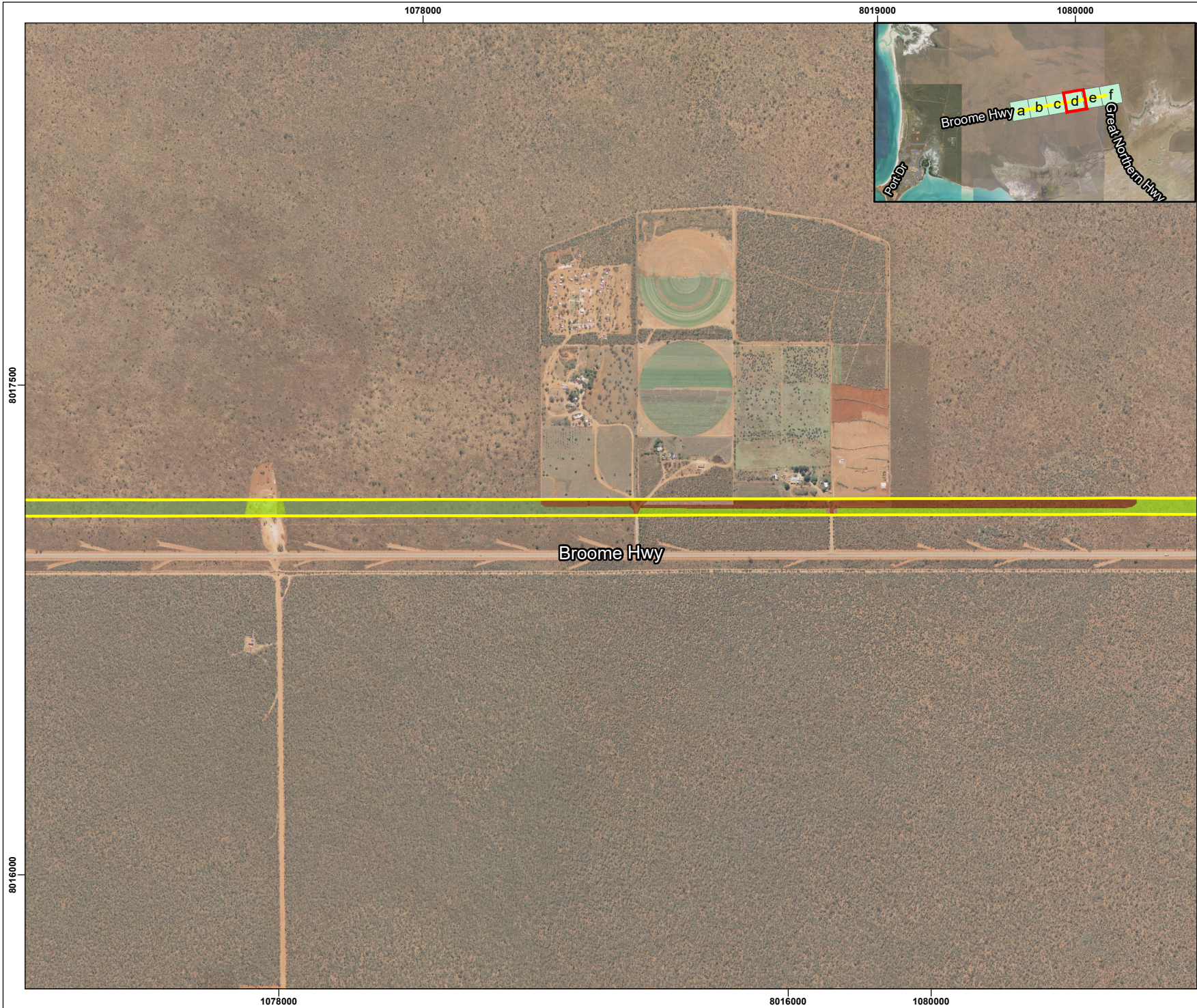
LOCALITY MAP

PROJECT ID 4902		DATE 01/02/2022	
HORIZONTAL DATUM AND PROJECTION GDA 1994 MGA Zone 50			
CREATED CL	CHECKED PW	APPROVED PW	REVISION 0

Horizon Power
Broom to Skuthorpe Line Extension
Broom to Skuthorpe Line Extension
Flora and Fauna Survey

Figure 9c

Vegetation Condition



Legend

Survey Area

Vegetation Condition

Excellent

Very Good

Degraded

Completely Degraded

- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS

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LOCALITY MAP

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CREATED CL	CHECKED PW	APPROVED PW	REVISION 0

Horizon Power
Broom to Skuthorpe Line Extension

Broom to Skuthorpe Line Extension
Flora and Fauna Survey

Figure 9d
Vegetation Condition



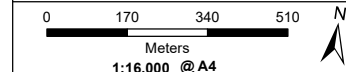
Legend

- Survey Area
- Vegetation Condition**
 - Very Good
 - Completely Degraded

- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
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CL	PW	PW	0

Horizon Power
 Broom to Skuthorpe Line Extension

Broom to Skuthorpe Line Extension
 Flora and Fauna Survey

Figure 9e
 Vegetation Condition



Legend

Survey Area

Vegetation Condition

Very Good

Completely Degraded

- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
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LOCALITY MAP

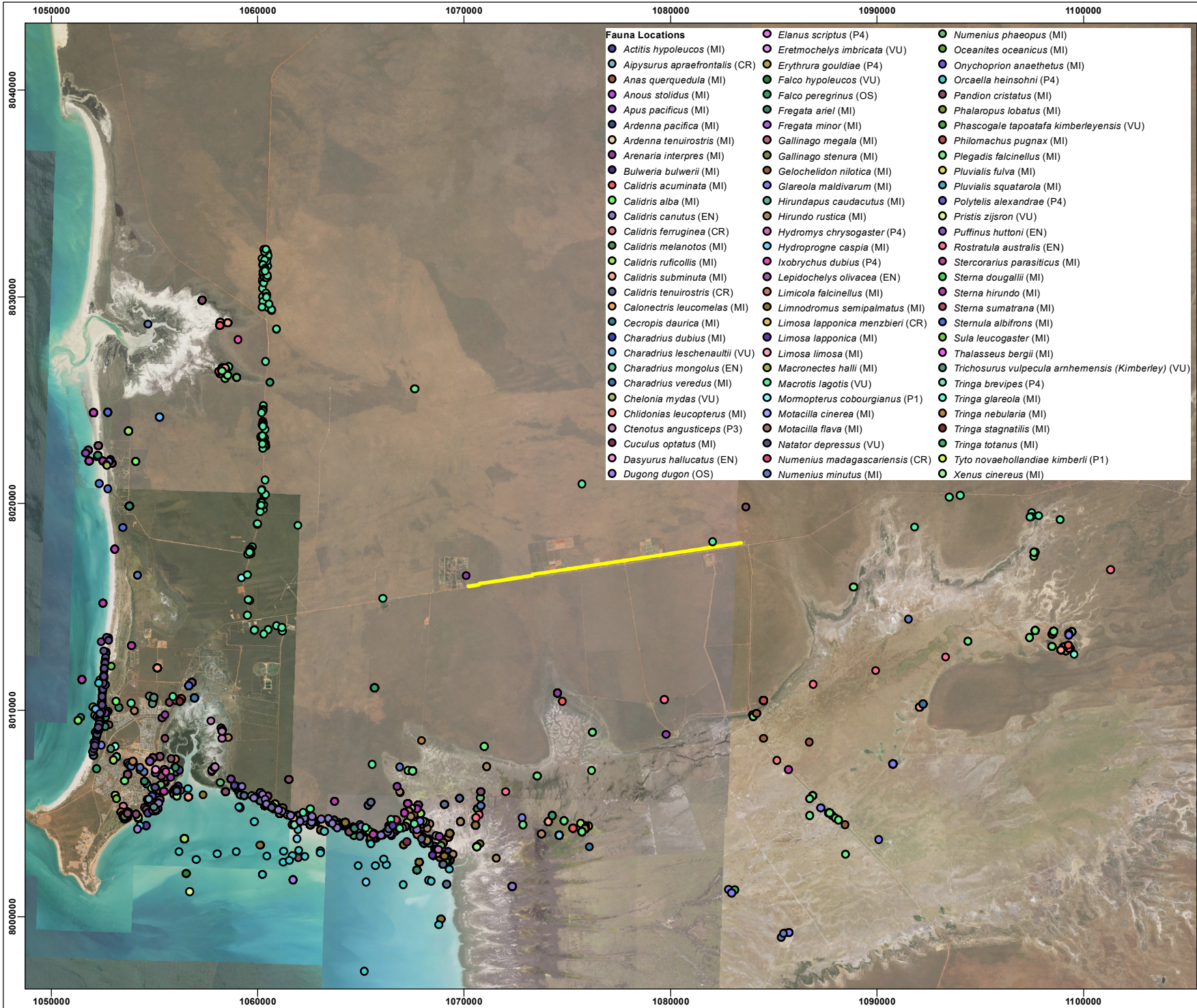
A locality map of Broome, Western Australia. The map shows the coastline and several locations marked with orange dots: SUNDAY STRAIT, LOMBADINA, BEAGLE BAY, DERBY Gibb River, BLINA NO 1 WELL, CABBALLIN, BROOME, and LOOMA. A red box highlights the project area in Broome.

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Horizon Power
Broom to Skuthorpe Line Extension

**Broom to Skuthorpe Line Extension
Flora and Fauna Survey**

Figure 9f
Vegetation Condition



Legend

 Survey Area

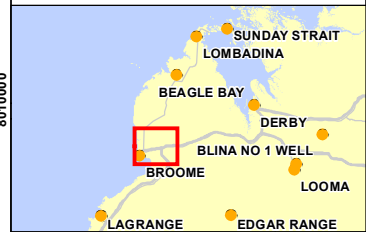
- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
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Meters
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LOCALITY MAP



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GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
CL	PW	PW	0

Horizon Power
Broome to Skuthorpe Line Extension

Broome to Skuthorpe Line Extension
Flora and Fauna Survey

Figure 10

DBCA Threatened and Priority
Fauna Locations



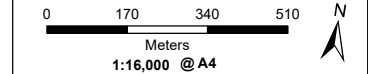
Legend

- Survey Area
- Fauna Habitat**
 - Acacia Shrubland
 - Cleared

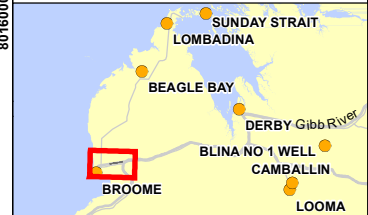
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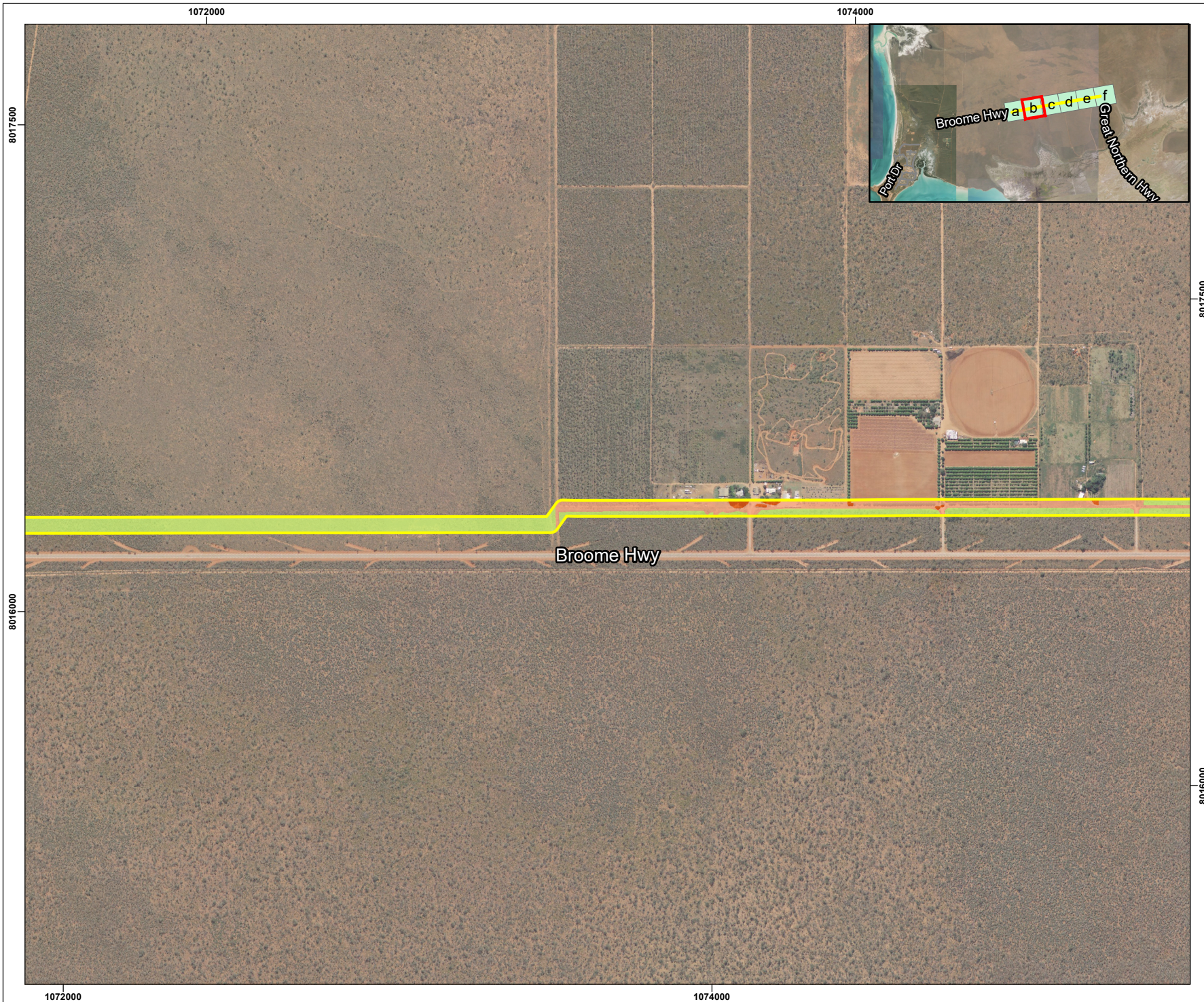


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CREATED CL	CHECKED PW	APPROVED PW	REVISION 0

Horizon Power
 Broom to Skuthorpe Line Extension

**Broom to Skuthorpe Line Extension
 Flora and Fauna Survey**

**Figure 11a
 Fauna Habitat**



Legend

Survey Area

Fauna Habitat

- Acacia Shrubland
- Planted, non-native garden vegetation
- Cleared

- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
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LOCALITY MAP

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HORIZONTAL DATUM AND PROJECTION GDA 1994 MGA Zone 50			
CREATED CL	CHECKED PW	APPROVED PW	REVISION 0

Horizon Power
 Broom to Skuthorpe Line Extension

**Broom to Skuthorpe Line Extension
 Flora and Fauna Survey**

Figure 11b
 Fauna Habitat

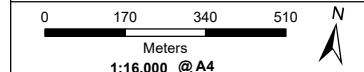


- Legend**
- Survey Area
 - Fauna Habitat**
 - Acacia Shrubland
 - Planted, non-native garden vegetation
 - Rehabilitation (Acacia Shrubland)
 - Cleared

- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
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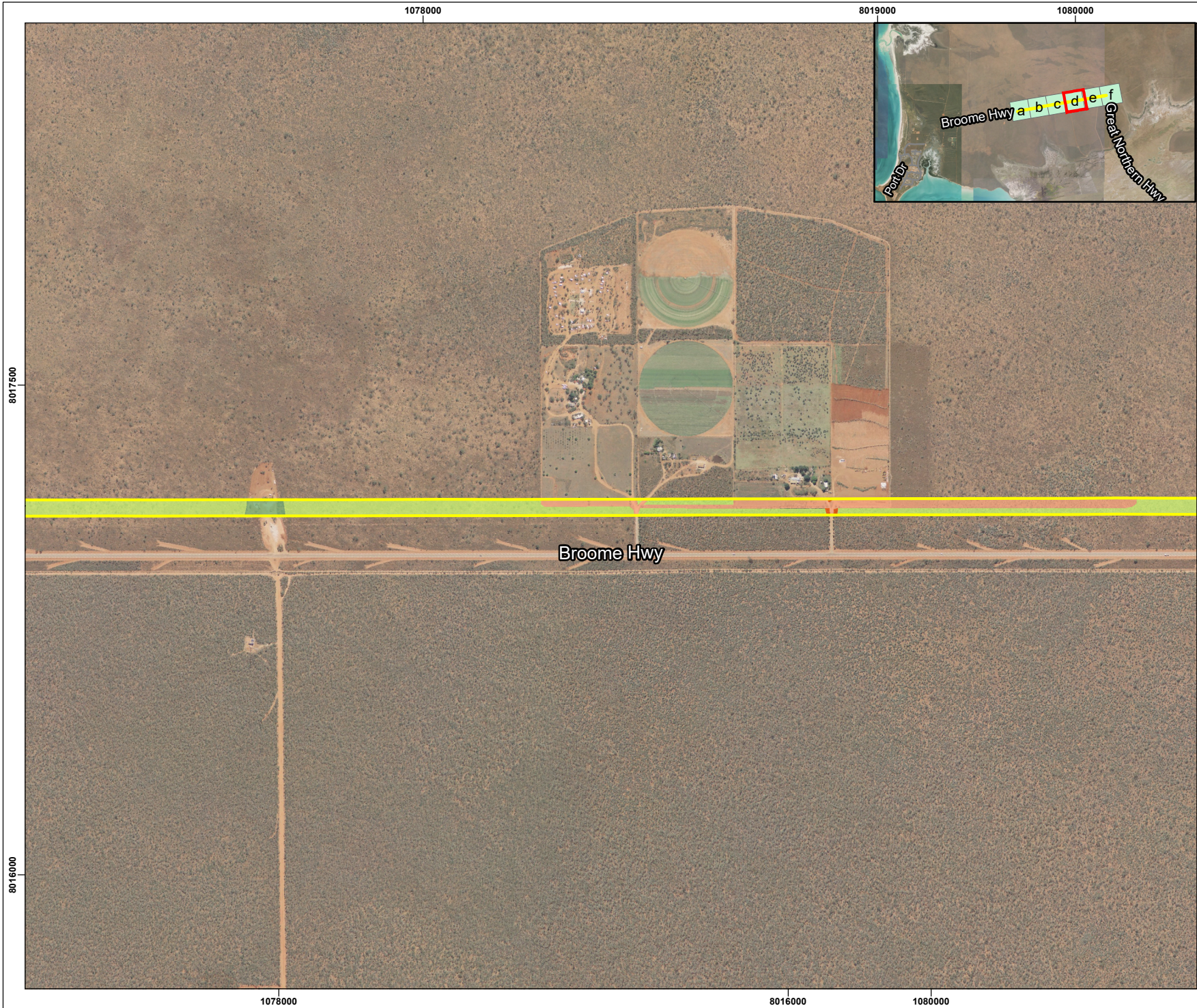
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Horizon Power
Broom to Skuthorpe Line Extension
Broom to Skuthorpe Line Extension
Flora and Fauna Survey

Figure 11c
Fauna Habitat

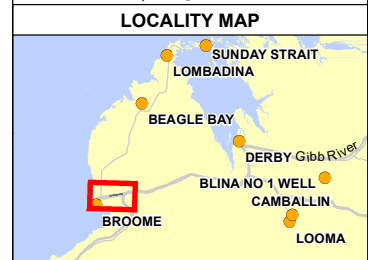
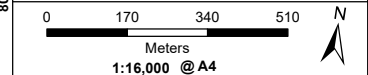


- ### Legend
- Survey Area
- ### Fauna Habitat
- Acacia Shrubland
 - Planted, non-native garden vegetation
 - Rehabilitation (Acacia Shrubland)
 - Cleared

- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
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Horizon Power
 Broom to Skuthorpe Line Extension

**Broom to Skuthorpe Line Extension
 Flora and Fauna Survey**

Figure 11d
 Fauna Habitat



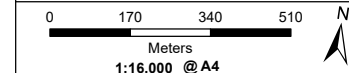
Legend

- Survey Area
- Fauna Habitat**
 - Acacia Shrubland
 - Cleared

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LOCALITY MAP



PROJECT ID 4902		DATE 01/02/2022	
HORIZONTAL DATUM AND PROJECTION GDA 1994 MGA Zone 50			
CREATED CL	CHECKED PW	APPROVED PW	REVISION 0

Horizon Power
 Broom to Skuthorpe Line Extension

**Broom to Skuthorpe Line Extension
 Flora and Fauna Survey**

Figure 11e
 Fauna Habitat



Legend

- Survey Area
- Fauna Habitat**
 - Acacia Shrubland
 - Cleared

- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
- LOCALITY MAP SOURCED LANDGATE 2021
- OTHER DATA SOURCED LANDGATE 2021
- AERIAL PHOTOGRAPHY SOURCED LANDGATE 2021
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Meters
1:16,000 @ A4

LOCALITY MAP

PROJECT ID	DATE
4902	01/02/2022

HORIZONTAL DATUM AND PROJECTION			
GDA 1994 MGA Zone 50			

CREATED	CHECKED	APPROVED	REVISION
CL	PW	PW	0

Horizon Power
Broom to Skuthorpe Line Extension

Broom to Skuthorpe Line Extension
Flora and Fauna Survey

Figure 11f
Fauna Habitat

Appendices

Appendix A

Literature Review

Report	Project Area	Survey Timing	Survey Effort	Conservation Significant Ecological Communities	Conservation Significant Flora	Introduced Flora
Broome North: Southern Portion - Preliminary Environmental Impact Assessment and Biological Survey (GHD, 2009)	14.5 km west southwest of the Survey Area	June 2008	Detailed flora and vegetation assessment	None	None	<ul style="list-style-type: none"> • <i>Aerva javanica</i> • <i>Calotropis procera</i>, • <i>Cenchrus ciliaris</i> • <i>Citrullus lanatus</i> • <i>Hibiscus sabdariffa</i> • <i>Hyptis suaveolens</i> • <i>Jatropha gossypifolia</i> • <i>Ocimum basilicum</i> • <i>Passiflora foetida</i> var. <i>hispida</i> • <i>Senna occidentalis</i> • <i>Sida acuta</i> • <i>Stylosanthes hamata</i>, • <i>Triumfetta petandra</i> • <i>Xanthium strumarium</i> • <i>Ziziphus mauritiana</i>
Broome Regional Resource Recovery Park Reconnaissance Flora & Level 1 Fauna Survey (Spectrum Ecology, 2020)	2.5 km east and 11 km west northwest of the Survey Area	November 2019	Detailed flora and vegetation assessment	None	<ul style="list-style-type: none"> • <i>Glycine pindanica</i> – P1 • <i>Polymeria ?calycina</i> – Range Extension • <i>Scleria brownie</i> – Range Extension 	<ul style="list-style-type: none"> • <i>Aeschynomene ?villosa</i> • <i>Azadirachta indica</i> • <i>Cenchrus biflorus</i> • <i>Citrullus lanatus</i> • <i>Cucumis melo</i> subsp. <i>agrestis</i> • <i>Eragrostis minor</i> • <i>Parkinsonia aculeata</i> • <i>Setaria surgens</i> • <i>Sida cordifolia</i> • <i>Triumfetta pentandra</i> • <i>Vachellia famesiana</i>
Broome Road Industrial Area - Preliminary Environmental Impact Assessment and Biological Survey (GHD, 2010)	8 km west of the Survey Area	April/May 2010 August 2010	Reconnaissance Flora	None	None	None

Report	Project Area	Survey Timing	Survey Effort	Conservation Significant Ecological Communities	Conservation Significant Flora	Introduced Flora
Flora, Vegetation and Fauna Assessment - Broome Asparagus Farm (AECOM Australia Pty Ltd, 2017)	Overlaps Survey Area	May 2017	Detailed flora and vegetation assessment Targeted conservation significant flora survey	None	<ul style="list-style-type: none"> • <i>Jacquemontia</i> sp. Broome (A.A. Mitchell 3028) – P1 	<ul style="list-style-type: none"> • ?<i>Raphanus raphanistrum</i> • <i>Setaria verticillata</i>
Mamabulanjin Orchard Flora and Fauna Survey (GHD, 2019)	10.5 km west northwest of the Survey Area	May 2019	Detailed flora and vegetation assessment Targeted conservation significant flora survey	None	None	None
Nyamba Buru Yawuru Flora and Fauna Survey (Ecoscape (Australia) Pty Ltd, 2017)	26 km southeast of the Survey Area	May 2017	Detailed flora and vegetation assessment	None	None	<ul style="list-style-type: none"> • <i>Stylosanthes hamata</i>
Broome Road Industrial Area Targeted Survey (GHD, 2018)	8 km west of the Survey Area	April, May 2017	Targeted conservation significant flora survey	NA	<ul style="list-style-type: none"> • <i>Jacquemontia</i> sp. Broome (A.A. Mitchell 3028) – P1 • <i>Polymeria</i> sp. Broome (K.F. Kenneally 9759) – P3 	NA

Report	Project Area	Survey Timing	Survey Effort	Conservation significant Fauna Recorded Onsite	Fauna Habitats
Broome North: Southern Portion - Preliminary Environmental Impact Assessment and Biological Survey (GHD, 2009)	14.5 km west southwest of the Survey Area	June 2008	Basic fauna survey	<ul style="list-style-type: none"> • Rainbow Bee-eater (<i>Merops ornatus</i>) 	<p>One fauna habitat was identified:</p> <ul style="list-style-type: none"> • Pindan shrubland with scattered emergent tree species
Broome Regional Resource Recovery Park Reconnaissance Flora & Level 1 Fauna Survey (Spectrum Ecology, 2020)	2.5 km east and 11 km west northwest of the Survey Area	November 2019	Basic fauna survey	NA	<p>One fauna habitat was identified:</p> <ul style="list-style-type: none"> • Pindan shrubland, open to sparse <i>Acacia</i> shrubland over tussock grassland
Broome Road Industrial Area - Preliminary Environmental Impact Assessment and Biological Survey (GHD, 2010)	8 km west of the Survey Area	April/May 2010 August 2010	<p>Detailed fauna survey</p> <p>Targeted Greater Bilby survey (cage traps, camera traps, nocturnal searches)</p> <p>Targeted bat survey (AnaBat recorders)</p>	<ul style="list-style-type: none"> • Black-faced Cuckoo-shrike (<i>Coracina novaehollandiae</i>) • Whistling Kite (<i>Haliastur sphenurus</i>) • Pallid Cuckoo (<i>Cuculus pallidus</i>) • Magpie Goose (<i>Anseranas semipalmata</i>) • Rainbow Bee-eater (<i>Merops ornatus</i>) • Straw-necked Ibis (<i>Threskiomys spinicoffis</i>) 	<p>Two fauna habitats were identified:</p> <ul style="list-style-type: none"> • Pindan woodland • Damp pindan woodland
Broome Road Subdivision Area - Conservation Significant Fauna Survey (GHD, 2015)	8 km west of the Survey Area	December 2014	Targeted ConSig fauna survey (walking transects, camera traps, funnel traps)	<ul style="list-style-type: none"> • Rainbow Bee-eater (<i>Merops ornatus</i>) 	<p>One fauna habitat was identified:</p> <ul style="list-style-type: none"> • Pindan shrubland
Flora, Vegetation and Fauna Assessment - Broome Asparagus Farm (AECOM Australia Pty Ltd, 2017)	Overlaps Survey Area	May 2017	<p>Basic fauna survey</p> <p>Targeted Greater Bilby survey (grid searches)</p>	<ul style="list-style-type: none"> • Potential Greater Bilby (<i>Macrotis lagotis</i>) evidence (burrows, scats) • Rainbow Bee-eater (<i>Merops ornatus</i>) 	<p>Three fauna habitats were identified:</p> <ul style="list-style-type: none"> • Open woodland and <i>Acacia</i> shrubland over spinifex hummock grassland • Open woodland over scattered acacia shrubland and thick <i>Sorghum</i> grassland • Cleared sand/red loam tracks
Mamabulanjin Orchard Flora and Fauna Survey (GHD, 2019)	10.5 km west northwest of the Survey Area	May 2019	<p>Basic fauna survey</p> <p>Targeted Greater Bilby survey (walking trasects)</p>	<ul style="list-style-type: none"> • Greater Bilby (<i>Macrotis lagotis</i>) evidence (tracks, foraging evidence) 	<p>One fauna habitat was identified:</p> <ul style="list-style-type: none"> • Red sandy loam pindan plain supporting tall mixed <i>Acacia</i> shrubland
Nyamba Buru Yawuru Flora and Fauna Survey (Ecoscape (Australia) Pty Ltd, 2017)	26 km southeast of the Survey Area	May 2017	<p>Detailed fauna survey</p> <p>Targeted Greater Bilby survey (grid searches, camera traps)</p> <p>Targeted Spectacled Hare-wallaby survey (grid searches, camera traps)</p>	<ul style="list-style-type: none"> • Spectacled Hare-wallaby (<i>Lagorchestes conspicillatus</i>) • Dampier Peninsula Goanna (<i>Varanus sparnus</i>) • Rainbow Bee-eater (<i>Merops ornatus</i>) 	<p>Two fauna habitats were identified:</p> <ul style="list-style-type: none"> • Shrubland over mixed tussock grassland (77%) • <i>Aristida</i> and <i>Chrysopogon</i> tussock grassland (23%)

Report	Project Area	Survey Timing	Survey Effort	Conservation significant Fauna Recorded Onsite	Fauna Habitats
Targeted Bilby Survey - Crab Creek Road, Broome (360 Environmental Pty Ltd, 2017)	9 km west of the Survey Area	April 2017	Targeted Greater Bilby survey (walking transects)		NA

Appendix B

Database Searches

NatureMap Flora Species Report

Created By Grant Buller on 01/11/2021

Kingdom Plantae
Current Names Only Yes
Core Datasets Only Yes
Method 'By Circle'
Centre 122° 25' 55" E, 17° 51' 32" S
Buffer 30km
Group By Conservation Status

Conservation Status	Species	Records
Non-conservation taxon	599	1885
Priority 1	3	33
Priority 2	1	2
Priority 3	11	47
Rare or likely to become extinct	1	16
TOTAL	615	1983

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Rare or likely to become extinct				
1.	46817 <i>Seringia exastia</i> (Fringed fire-bush)		T	
Priority 1				
2.	16789 <i>Corymbia paractia</i>		P1	
3.	34797 <i>Jacquemontia</i> sp. Broome (A.A. Mitchell 3028)		P1	
4.	8246 <i>Thespidium basiflorum</i>		P1	
Priority 2				
5.	2686 <i>Gomphrena pusilla</i>		P2	
Priority 3				
6.	42183 <i>Acacia monticola</i> x <i>tumida</i> var. <i>kulpam</i>		P3	
7.	14487 <i>Aphyllodium glossocarpum</i>		P3	
8.	16248 <i>Fuirena incrassata</i>		P3	
9.	13829 <i>Glycine pindanica</i>		P3	
10.	12514 <i>Goodenia byrnesii</i>		P3	
11.	4936 <i>Hibiscus panduriformis</i> (Yellow Hibiscus)		P3	
12.	41644 <i>Polymeria</i> sp. Broome (K.F. Kenneally 9759)		P3	
13.	46820 <i>Seringia katatona</i> (Red dune fire-bush)		P3	
14.	45717 <i>Stylidium pindanicum</i> (Pindan Triggerplant)		P3	
15.	45697 <i>Terminalia kumpaja</i>		P3	
16.	16690 <i>Tetragonia coronata</i>		P3	
Non-conservation taxon				
17.	3678 <i>Abrus precatorius</i> (Crabs Eyes)			
18.	16979 <i>Abrus precatorius</i> subsp. <i>precatorius</i>			
19.	16919 <i>Abutilon hannii</i>			
20.	11325 <i>Abutilon indicum</i> var. <i>australiense</i>			
21.	4901 <i>Abutilon otocarpum</i> (Desert Chinese Lantern)			
22.	16160 <i>Acacia adoxa</i> var. <i>subglabra</i>			
23.	3209 <i>Acacia ampliceps</i>			
24.	44580 <i>Acacia ampliceps</i> x <i>bivenosa</i>			
25.	3241 <i>Acacia bivenosa</i>			
26.	13403 <i>Acacia coleii</i>			
27.	17013 <i>Acacia coleii</i> var. <i>coleii</i>			
28.	3326 <i>Acacia eriopoda</i> (Broome Pindan Wattle)			
29.	42200 <i>Acacia eriopoda</i> x <i>tumida</i> var. <i>tumida</i>			
30.	3371 <i>Acacia hippuroides</i>			
31.	3447 <i>Acacia monticola</i> (Gawar, Lilwardi)			
32.	3491 <i>Acacia platycarpa</i> (Pindan Wattle)			
33.	14977 <i>Acacia plectocarpa</i> subsp. <i>plectocarpa</i>			
34.	<i>Acacia</i> sp.			
35.	3579 <i>Acacia trachycarpa</i> (Minni Ritchi, Balgali)			

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
36.	3580	<i>Acacia translucens</i> (Poverty Bush, Banmung)			
37.	20321	<i>Acacia tumida</i> var. <i>kulparn</i>			
38.	19641	<i>Acacia tumida</i> var. <i>tumida</i>			
39.	35923	<i>Acanthophora muscoides</i>			
40.	26441	<i>Acanthophora spicifera</i>			
41.	7811	<i>Acanthospermum hispidum</i> (Starburr)	Y		
42.	2645	<i>Achyranthes aspera</i> (Chaff Flower)			
43.	35868	<i>Acrocystis nana</i>			
44.	44	<i>Acrostichum speciosum</i>			
45.	4995	<i>Adansonia gregorii</i> (Boab, Djungeri)			
46.	17422	<i>Adriana tomentosa</i> var. <i>tomentosa</i>			
47.	6478	<i>Aegiceras corniculatum</i> (River Mangrove)			
48.	2646	<i>Aerva javanica</i> (Kapok Bush)	Y		
49.	3680	<i>Aeschynomene indica</i> (Budda Pea)			
50.	13230	<i>Ageratum conyzoides</i>	Y		
51.	3609	<i>Albizia lebbbeck</i>			
52.	6563	<i>Alstonia linearis</i> (Bitter Bark)			
53.	20028	<i>Alternanthera brasiliana</i>	Y		
54.	2653	<i>Alternanthera pungens</i> (Khaki Weed)	Y		
55.	4907	<i>Alyogyne pinoniana</i> (Sand Hibiscus)			
56.	17574	<i>Alysicarpus ovalifolius</i>	Y		
57.	20018	<i>Amaranthus undulatus</i>			
58.	5277	<i>Ammannia baccifera</i>			
59.	26462	<i>Amphiroa fragilissima</i>			
60.	2369	<i>Amyema benthamii</i>			
61.	13700	<i>Amyema bifurcata</i>			
62.	13262	<i>Amyema conspicua</i>			
63.	11874	<i>Amyema sanguinea</i> var. <i>sanguinea</i>			
64.	2386	<i>Amyema thalassia</i>			
65.	35872	<i>Anadyomene plicata</i>			
66.	40917	<i>Androcalva loxophylla</i>			
67.	17276	<i>Annona reticulata</i>	Y		
68.	13822	<i>Antigonon leptopus</i>	Y		
69.	11193	<i>Aristida holathera</i> var. <i>latifolia</i>			
70.	211	<i>Aristida hygrometrica</i> (Northern Kerosene Grass)			
71.	212	<i>Aristida inaequiglumis</i> (Feathertop Threawn)			
72.	41725	<i>Asystasia gangetica</i> subsp. <i>gangetica</i>	Y		
73.	4740	<i>Atalaya hemiglaucula</i> (Whitewood)			
74.	6828	<i>Avicennia marina</i> (White Mangrove)			
75.	17660	<i>Azadirachta indica</i>	Y		
76.	1743	<i>Batis argillicola</i>			
77.	12757	<i>Bauhinia cunninghamii</i>			
78.	5183	<i>Bergia ammannioides</i>			
79.	7860	<i>Blumea integrifolia</i>			
80.	7865	<i>Blumea saxatilis</i>			
81.	7866	<i>Blumea tenella</i>			
82.	2770	<i>Boerhavia coccinea</i> (Tar Vine, Wituka)			
83.	2771	<i>Boerhavia dominii</i>			
84.	2772	<i>Boerhavia gardneri</i>			
85.	2773	<i>Boerhavia paludosa</i>			
86.		<i>Boerhavia</i> sp.			
87.	6606	<i>Bonamia media</i>			
88.	26515	<i>Bostrychia tenella</i>			Y
89.	239	<i>Bothriochloa bladhii</i> (Forest Bluegrass)			
90.	13361	<i>Bothriochloa pertusa</i>	Y		
91.	26516	<i>Botryocladia leptopoda</i>			
92.	13010	<i>Brachychiton diversifolius</i> subsp. <i>diversifolius</i>			
93.	4603	<i>Bridelia tomentosa</i>			
94.	5291	<i>Bruguiera exaristata</i> (Ribbed Mangrove)			
95.	13682	<i>Buchnera asperata</i>			
96.	7047	<i>Buchnera linearis</i> (Blackrod)			
97.	7048	<i>Buchnera ramosissima</i> (Blackrod)			
98.	750	<i>Bulbostylis barbata</i>			
99.		<i>Butea monosperma</i>			Y
100.	18073	<i>Byblis filifolia</i>			
101.	17854	<i>Byblis rorida</i>			
102.	3624	<i>Caesalpinia major</i>			
103.	10972	<i>Cajanus marmoratus</i>			
104.	2866	<i>Calandrinia quadrivalvis</i>			
105.	2871	<i>Calandrinia strophiolata</i>			

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
106.	2872	<i>Calandrinia tepperiana</i>			
107.	44923	<i>Callisia repens</i>	Y		
108.	14925	<i>Calotropis gigantea</i>	Y		
109.	5457	<i>Calytrix exstipulata</i> (Kimberley Heather)			
110.	4997	<i>Camptostemon schultzei</i> (Kapok Mangrove)			
111.	3749	<i>Canavalia rosea</i> (Wild Jack Bean)			
112.	2976	<i>Capparis lasiantha</i> (Split Jack, Balqarda)			
113.		<i>Capsicum annuum</i>			
114.	49010	<i>Cardamine occulta</i>	Y		
115.	6567	<i>Carissa lanceolata</i> (Conkerberry, Marnuwiji)			
116.	13679	<i>Cascabela thevetia</i>	Y		
117.	2949	<i>Cassytha capillaris</i>			
118.	2950	<i>Cassytha filiformis</i> (Love Vine, Jirawan)			
119.	6569	<i>Catharanthus roseus</i> (Pink Periwinkle)	Y		
120.	42620	<i>Caulerpa chemnitzia</i>			
121.	35158	<i>Caulerpa corynephora</i>			
122.	44547	<i>Caulerpa lamourouxii</i>			
123.	26568	<i>Caulerpa lentillifera</i>			
124.	44551	<i>Caulerpa macrodisca</i>			
125.	26576	<i>Caulerpa serrulata</i>			
126.	26577	<i>Caulerpa sertularioides</i>			
127.	26579	<i>Caulerpa taxifolia</i>			
128.	35124	<i>Caulerpa taxifolia</i> var. <i>taxifolia</i>			
129.	41565	<i>Cenchrus americanus</i> (Pearl Millet)	Y		
130.	257	<i>Cenchrus biflorus</i> (Gallon's Curse)	Y		
131.	258	<i>Cenchrus ciliaris</i> (Buffel Grass)	Y		
132.	259	<i>Cenchrus echinatus</i> (Burrgrass)	Y		
133.		<i>Cenchrus purpurascens</i>			Y
134.	29721	<i>Cenchrus setiger</i> (Birdwood Grass)	Y		
135.		<i>Centratherum punctatum</i>			
136.	26587	<i>Centroceras clavulatum</i>			
137.		<i>Centrosema molle</i>			
138.	13680	<i>Centrosema pascuorum</i>	Y		
139.	26595	<i>Ceramium isogonum</i>			
140.	2925	<i>Ceratophyllum demersum</i> (Hornwort)			
141.	30	<i>Ceratopteris thalictroides</i>			
142.	39680	<i>Cerriops australis</i>			
143.	18358	<i>Chamaecrista absus</i> var. <i>absus</i>			
144.	26618	<i>Champia parvula</i>			
145.	26619	<i>Champia stipitata</i>			
146.	266	<i>Chloris barbata</i> (Purpletop Chloris)	Y		
147.	270	<i>Chloris pumilio</i>			
148.	272	<i>Chloris virgata</i> (Feathertop Rhodes Grass)	Y		
149.	26628	<i>Chondria armata</i>			
150.	28291	<i>Chrysopogon aciculatus</i>	Y		
151.	275	<i>Chrysopogon pallidus</i> (Ribbongrass)			
152.	48838	<i>Citrullus amarus</i>	Y		
153.	11886	<i>Cleome tetrandra</i> var. <i>tetrandra</i>			
154.	2988	<i>Cleome viscosa</i> (Tickweed, Tjinduwadhu)			
155.	6729	<i>Clerodendrum floribundum</i> (Lollybush)			
156.	13693	<i>Clerodendrum floribundum</i> var. <i>coriaceum</i>			
157.	13691	<i>Clerodendrum floribundum</i> var. <i>ovatum</i>			
158.	13688	<i>Clerodendrum tomentosum</i> var. <i>mollissima</i>			
159.	13690	<i>Clerodendrum tomentosum</i> var. <i>tomentosum</i>			
160.	3769	<i>Clitoria ternatea</i>	Y		
161.	15036	<i>Coccinia grandis</i>	Y		
162.	35917	<i>Codium arabicum</i>			
163.	35857	<i>Codium dwarkense</i>			
164.	2778	<i>Codonocarpus cotinifolius</i> (Native Poplar, Kundurangu)			
165.	26686	<i>Coelarthrum opuntia</i>			
166.	7939	<i>Conyza bonariensis</i> (Flaxleaf Fleabane)	Y		
167.	12767	<i>Corchorus aestuans</i>			
168.	25847	<i>Corchorus incanus</i> subsp. <i>incanus</i>			
169.	4861	<i>Corchorus olitorius</i> (Jute)	Y		
170.	18415	<i>Corchorus sidoides</i> subsp. <i>sidoides</i>			
171.	18414	<i>Corchorus sidoides</i> subsp. <i>vermicularis</i>			
172.	16788	<i>Corymbia bella</i>			
173.	16784	<i>Corymbia dendromerinx</i>			
174.	14650	<i>Corymbia flavescens</i>			
175.	17089	<i>Corymbia greeniana</i>			

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
176.	17092	<i>Corymbia opaca</i>			
177.	17100	<i>Corymbia polycarpa</i>			
178.	17084	<i>Corymbia zygophylla</i>			
179.	1285	<i>Corynotheca micrantha</i> (Sand Lily)			
180.	11624	<i>Corynotheca micrantha</i> var. <i>gracilis</i>			
181.	19565	<i>Cressa australis</i>			
182.	13466	<i>Crotalaria brevis</i>			
183.	3774	<i>Crotalaria cunninghamii</i> (Green Birdflower, Bilbun)			
184.	20176	<i>Crotalaria cunninghamii</i> subsp. <i>cunninghamii</i>			
185.	20179	<i>Crotalaria medicaginea</i> var. <i>neglecta</i>			
186.	19398	<i>Crotalaria ramosissima</i>			
187.		<i>Crotalaria</i> sp.			
188.	12683	<i>Cryptostegia madagascariensis</i>	Y		
189.	17341	<i>Cucumis anguria</i> var. <i>anguria</i>	Y		
190.	7371	<i>Cucumis melo</i> (Ulcardo Melon)			
191.	41722	<i>Cucumis picocarpus</i>			
192.	17432	<i>Cullen corallum</i>			
193.	17116	<i>Cullen martinii</i>			
194.	17447	<i>Cullen pustulatum</i>			
195.	13732	<i>Cuscuta campestris</i> (Golden dodder)	Y		
196.	31213	<i>Cuscuta chinensis</i>			
197.	13733	<i>Cuscuta victoriana</i>			
198.	6749	<i>Cyanostegia cyanocalyx</i>			
199.	45972	<i>Cyanthillium cinereum</i> var. <i>cinereum</i>	Y		
200.	45973	<i>Cyanthillium cinereum</i> var. <i>lanatum</i>	Y		
201.	1628	<i>Cymbidium canaliculatum</i>			
202.	128	<i>Cymodocea angustata</i>			
203.	6585	<i>Cynanchum pedunculatum</i>			
204.	48280	<i>Cynanchum viminalis</i> subsp. <i>australe</i>			
205.	46558	<i>Cynodon convergens</i>			
206.	283	<i>Cynodon dactylon</i> (Couch)	Y		
207.	12801	<i>Cyperus blakeanus</i>			
208.	777	<i>Cyperus bulbosus</i> (Bush Onion, Tjanmata)			
209.	781	<i>Cyperus compressus</i>	Y		
210.	784	<i>Cyperus conicus</i>			
211.	810	<i>Cyperus rotundus</i> (Nut Grass)	Y		
212.	812	<i>Cyperus scariosus</i>			
213.	814	<i>Cyperus squarrosus</i>			
214.	817	<i>Cyperus tenuispica</i>			
215.	288	<i>Dactyloctenium aegyptium</i> (Coast Button Grass)	Y		
216.	290	<i>Dactyloctenium radulans</i> (Button Grass)			
217.	11407	<i>Dendrophthoe acacioides</i> subsp. <i>acacioides</i>			
218.	41200	<i>Denhamia cunninghamii</i> (Koonkara)			
219.	7319	<i>Dentella misera</i>			
220.	3853	<i>Desmodium filiforme</i>			
221.	3857	<i>Desmodium tortuosum</i> (Florida Beggarweed)	Y		
222.	3612	<i>Dichrostachys spicata</i> (Pied Piper Bush)			
223.	26782	<i>Digenea simplex</i>			
224.	309	<i>Digitaria bicornis</i> (Finger Grass)			
225.	311	<i>Digitaria ciliaris</i> (Summer Grass)	Y		
226.	313	<i>Digitaria ctenantha</i> (Comb Finger Grass)			
227.	35178	<i>Digitaria radicata</i>	Y		
228.	48735	<i>Distimake aegyptius</i>	Y		
229.	48738	<i>Distimake dissectus</i> var. <i>dissectus</i>	Y		
230.	38461	<i>Dodonaea hispidula</i> var. <i>arida</i>			
231.	38462	<i>Dodonaea hispidula</i> var. <i>phylloptera</i>			
232.	48390	<i>Dolichandrone occidentalis</i>			
233.	17213	<i>Drosera broomensis</i>			
234.	2504	<i>Dysphania plantaginella</i>			
235.	328	<i>Echinochloa colona</i> (Awnless Barnyard Grass)	Y		
236.	332	<i>Echinochloa frumentacea</i> (Siberian Millet)	Y		
237.	42146	<i>Eclipta platyglossa</i> subsp. <i>borealis</i>			
238.	8450	<i>Eclipta prostrata</i>	Y		
239.	342	<i>Ectrosia danesii</i>			
240.	6682	<i>Ehretia saligna</i> (False Cedar)			
241.	14301	<i>Ehretia saligna</i> var. <i>saligna</i>			
242.	823	<i>Eleocharis atropurpurea</i>			
243.	353	<i>Eleusine indica</i> (Crowsfoot Grass)	Y		
244.		<i>Eleutheranthera ruderalis</i>			
245.	36142	<i>Endosiphonia spinuligera</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
246.	363 <i>Enneapogon pallidus</i> (Conetop Nineawn)			
247.	374 <i>Eragrostis cilianensis</i> (Stinkgrass)	Y		
248.	375 <i>Eragrostis cumingii</i> (Cuming's Love Grass)			
249.	380 <i>Eragrostis eriopoda</i> (Woollybutt Grass, Wangumu)			
250.	381 <i>Eragrostis falcata</i> (Sickle Lovegrass)			
251.	389 <i>Eragrostis minor</i> (Smaller Stinkgrass)	Y		
252.	17610 <i>Eragrostis tenuifolia</i>	Y		
253.	412 <i>Eriachne melicacea</i>			
254.	414 <i>Eriachne obtusa</i> (Northern Wandarrie Grass)			
255.	48185 <i>Eriachne pindanica</i> (Pindan Wiregrass)			
256.	1154 <i>Eriocaulon cinereum</i>			
257.	3013 <i>Eruca sativa</i> (Purplevein Rocket)	Y		
258.	3871 <i>Erythrina vespertilio</i> (Yulbah)			
259.	3662 <i>Erythrophleum chlorostachys</i> (Ironwood, Dyundyu)			
260.	5714 <i>Eucalyptus microtheca</i> (Coolibah)			
261.	5785 <i>Eucalyptus tectifica</i> (Darwin Box)			
262.	26827 <i>Eucheuma denticulatum</i>			
263.	35303 <i>Euphorbia australis</i> var. <i>subtomentosa</i>			
264.	4623 <i>Euphorbia coghlanii</i> (Namana)			
265.	17342 <i>Euphorbia cyathophora</i>	Y		
266.	42849 <i>Euphorbia hassallii</i>			
267.	11157 <i>Euphorbia heterophylla</i>	Y		
268.	4629 <i>Euphorbia hirta</i> (Asthma Plant)	Y		
269.	4635 <i>Euphorbia myrtilloides</i>			
270.	4642 <i>Euphorbia schultzei</i>			
271.	42878 <i>Euphorbia thymifolia</i>	Y		
272.	42879 <i>Euphorbia trigonosperma</i>			
273.	11416 <i>Evolvulus alsinoides</i> var. <i>decumbens</i>			
274.	11169 <i>Exocarpos latifolius</i> (Broad-leaved Cherry)			
275.	31578 <i>Ficus aculeata</i> var. <i>indecora</i> (Ranji)			
276.	839 <i>Fimbristylis ammobia</i>			
277.	841 <i>Fimbristylis caespitosa</i>			
278.	847 <i>Fimbristylis cymosa</i>			
279.	866 <i>Fimbristylis nuda</i>			
280.	870 <i>Fimbristylis oxystachya</i>			
281.	877 <i>Fimbristylis punctata</i>			
282.	878 <i>Fimbristylis rara</i>			
283.	35558 <i>Flaveria trinervia</i> (Speedy Weed)	Y		
284.	4654 <i>Flueggea virosa</i>			
285.	12013 <i>Flueggea virosa</i> subsp. <i>melanthesoides</i> (Dogwood, Guwal)			
286.	3886 <i>Galactia tenuiflora</i>			
287.	19195 <i>Gamochaeta pensylvanica</i>	Y		
288.	26836 <i>Ganonema borowitzkae</i>			
289.	26837 <i>Ganonema farinosum</i>			
290.	7328 <i>Gardenia pyrifolia</i> (Malara)			
291.	15234 <i>Gardenia pyrifolia</i> subsp. <i>keartlandii</i>			
292.	<i>Gardenia</i> sp.			
293.	3942 <i>Glycine tomentella</i> (Woolly Glycine)			
294.	<i>Gmelina philippensis</i>			
295.	7985 <i>Gnaphalium polycaulon</i> (Indian Cudweed)	Y		
296.	2676 <i>Gomphrena canescens</i> (Batchelors Buttons)			
297.	18363 <i>Gomphrena canescens</i> subsp. <i>canescens</i>			
298.	2677 <i>Gomphrena celosioides</i> (Gomphrena Weed)	Y		
299.	2682 <i>Gomphrena flaccida</i> (Gomphrena Weed)			
300.	2687 <i>Gomphrena tenella</i>			
301.	7490 <i>Goodenia armitiana</i>			
302.	7521 <i>Goodenia lamprosperma</i>			
303.	7545 <i>Goodenia scaevolina</i> (Ngurubi)			
304.	13163 <i>Goodenia sepalosa</i> var. <i>sepalosa</i>			
305.	4910 <i>Gossypium australe</i> (Native Cotton)			
306.	4913 <i>Gossypium hirsutum</i> (Upland Cotton)	Y		
307.	4916 <i>Gossypium populifolium</i>			
308.	13043 <i>Gossypium rotundifolium</i>			
309.	26873 <i>Gracilaria salicornia</i>			
310.	15975 <i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>			
311.	16476 <i>Grevillea refracta</i> subsp. <i>refracta</i>			
312.	13440 <i>Grevillea wickhamii</i> subsp. <i>aprica</i>			
313.	4868 <i>Grewia breviflora</i>			
314.	4872 <i>Grewia retusifolia</i> (Dog's Balls)			
315.	18374 <i>Guilleminea densa</i>	Y		

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316.	13228	<i>Gymnanthera oblonga</i>			
317.	2960	<i>Gyrocarpus americanus</i> (Helicopter Tree, Bilangkamar)			
318.	13748	<i>Gyrocarpus americanus</i> subsp. <i>pachyphyllus</i>			
319.	2789	<i>Gyrostemon tepperi</i>			
320.	2129	<i>Hakea arborescens</i> (Common Hakea)			
321.	2178	<i>Hakea macrocarpa</i> (Dyaridany, Jaradinty)			
322.	26894	<i>Halimeda macroloba</i>			
323.	35906	<i>Halimeda opuntia</i>			
324.	130	<i>Halodule pinifolia</i>			
325.	131	<i>Halodule uninervis</i>			
326.	163	<i>Halophila minor</i>			
327.	164	<i>Halophila ovalis</i> (Sea Wrack)			
328.	165	<i>Halophila spinulosa</i>			
329.	37642	<i>Halymenia durvillei</i>			
330.	38100	<i>Halymenia maculata</i>			
331.	6707	<i>Heliotropium curassavicum</i> (Smooth Heliotrope)			
332.	10882	<i>Heliotropium foliatum</i>			
333.	13126	<i>Heliotropium leptaleum</i>			
334.	6713	<i>Heliotropium ovalifolium</i>			
335.	4920	<i>Herissantia crispa</i>			
336.	443	<i>Heteropogon contortus</i> (Bunch Speargrass)			
337.	26930	<i>Heterosiphonia crassipes</i>			
338.	29358	<i>Hibiscus apodus</i>			
339.	29316	<i>Hibiscus austrinus</i>			
340.	29317	<i>Hibiscus austrinus</i> var. <i>austrinus</i>			
341.	4929	<i>Hibiscus geranioides</i>			
342.	4933	<i>Hibiscus leptocladus</i>			
343.	5215	<i>Hybanthus aurantiacus</i>			
344.	166	<i>Hydrilla verticillata</i> (Water Thyme)			
345.	35871	<i>Hydropuntia urvillei</i>			
346.	26970	<i>Hypnea pannosa</i>			
347.	13959	<i>Hypoestes floribunda</i> var. <i>varia</i>			
348.	6572	<i>Ichnocarpus frutescens</i>			
349.	3973	<i>Indigofera colutea</i> (Sticky Indigo)			
350.	3978	<i>Indigofera hirsuta</i> (Hairy Indigo)			
351.	3980	<i>Indigofera linifolia</i>			
352.	3981	<i>Indigofera linnaei</i> (Birdsville Indigo)			
353.	16061	<i>Indigofera oblongifolia</i>	Y		
354.	14363	<i>Ipomoea batatas</i>	Y		
355.	6620	<i>Ipomoea cairica</i> (Coast Morning Glory)	Y		
356.	6623	<i>Ipomoea coptica</i>			
357.	6633	<i>Ipomoea muelleri</i> (Poison Morning Glory, Yumbu)			
358.	6635	<i>Ipomoea pes-caprae</i>			
359.	11312	<i>Ipomoea pes-caprae</i> subsp. <i>brasiliensis</i>			
360.		<i>Ipomoea pes-caprae</i> subsp. <i>pes-caprae</i>			Y
361.	18295	<i>Ipomoea pes-tigridis</i>	Y		
362.	6637	<i>Ipomoea polymorpha</i>			
363.	20003	<i>Ipomoea triloba</i>	Y		
364.	3989	<i>Isotropis atropurpurea</i> (Poison Sage)			
365.	3996	<i>Jacksonia aculeata</i>			
366.	6643	<i>Jacquemontia paniculata</i>			
367.	26983	<i>Jania adhaerens</i>			
368.	6501	<i>Jasminum didymum</i>			
369.	12059	<i>Jasminum didymum</i> subsp. <i>lineare</i> (Desert Jasmine)			
370.	4656	<i>Jatropha gossypifolia</i> (Bellyache Bush)	Y		
371.	28342	<i>Landoltia punctata</i> (Thin Duckweed)			
372.		<i>Lawsonia inermis</i>			
373.	1050	<i>Lemna aequinoctialis</i>			
374.	4054	<i>Leptosema anomalum</i>			
375.	18351	<i>Leucaena leucocephala</i> subsp. <i>leucocephala</i>	Y		
376.	37480	<i>Lobelia arnhemiaca</i>			
377.	476	<i>Lolium perenne</i> (Perennial Ryegrass)	Y		
378.	5296	<i>Lumnitzera racemosa</i> (White-flowered Black Mangrove)			
379.	2399	<i>Lysiana spathulata</i>			
380.	11809	<i>Lysiana spathulata</i> subsp. <i>spathulata</i>			
381.	4070	<i>Macroptilium atropurpureum</i> (Purple Bean)	Y		
382.	4658	<i>Mallotus nesophilus</i>			
383.	16537	<i>Marsdenia angustata</i>			
384.	6598	<i>Marsdenia viridiflora</i>			
385.	16535	<i>Marsdenia viridiflora</i> subsp. <i>tropica</i>			

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386.	76 <i>Marsilea hirsuta</i> (Nardoo)			
387.	<i>Mecardonia procumbens</i>			Y
388.	4079 <i>Medicago polymorpha</i> (Burr Medic)	Y		
389.	9178 <i>Melaleuca alsophila</i>			
390.	5883 <i>Melaleuca cajuputi</i>			
391.	17791 <i>Melaleuca cajuputi</i> subsp. <i>cajuputi</i>			
392.	5901 <i>Melaleuca dealbata</i> (Karnbor)			
393.	5942 <i>Melaleuca nervosa</i> (Fibre bark)			
394.	5989 <i>Melaleuca viridiflora</i> (Broadleaf Paperbark)			
395.	5051 <i>Melhania oblongifolia</i>			
396.	12361 <i>Melicope elleryana</i>			
397.	48283 <i>Mesosphaerum suaveolens</i>	Y		
398.	31374 <i>Microstachys chamaelea</i>			
399.	2944 <i>Miliusa brahei</i>			
400.	<i>Mitracarpus hirtus</i>			
401.	6522 <i>Mitrasacme exserta</i>			
402.	6525 <i>Mitrasacme hispida</i>			
403.	7378 <i>Momordica balsamina</i> (Balsam Apple)	Y		
404.	6490 <i>Muellerolimon salicorniaceum</i>			
405.	1167 <i>Murdannia graminea</i> (Baniyu)			
406.	17158 <i>Myoporum montanum</i> (Native Myrtle)			
407.	139 <i>Najas tenuifolia</i> (Water Nymph)			
408.	7337 <i>Nauclea orientalis</i> (Leichardt Pine)			
409.	2573 <i>Neobassia astrocarpa</i>			
410.	14817 <i>Nicotiana heterantha</i>			
411.	38421 <i>Notoleptopus decaisnei</i>			
412.	13916 <i>Nymphaea violacea</i>			
413.	44784 <i>Ocimum americanum</i>	Y		
414.	6907 <i>Ocimum basilicum</i> (Basil)	Y		
415.	13340 <i>Oldenlandia corymbosa</i> var. <i>corymbosa</i>	Y		
416.	7340 <i>Oldenlandia mitrasacmoides</i>			
417.	13343 <i>Oldenlandia mitrasacmoides</i> subsp. <i>mitrasacmoides</i>			
418.	6651 <i>Operculina aequiseipala</i>			
419.	2362 <i>Opilia amentacea</i>			
420.	46834 <i>Osmundaria melvillii</i>			
421.	4518 <i>Owenia reticulata</i> (Native Walnut, Bandal)			
422.	4349 <i>Oxalis corniculata</i> (Yellow Wood Sorrel)	Y		
423.	<i>Pachyrhizus erosus</i>			Y
424.	104 <i>Pandanus spiralis</i> (Screw pine, Wakirri)			
425.	503 <i>Panicum decompositum</i> (Native Millet, Kaltu-kaltu)			
426.	504 <i>Panicum effusum</i> (Hairy Panic Grass)			
427.	508 <i>Panicum mindanaense</i>			
428.	523 <i>Paspalidium rarum</i> (Rare Paspalidium)			
429.	528 <i>Paspalum distichum</i> (Water Couch)	Y		
430.	533 <i>Paspalum vaginatum</i> (Salt Water Couch)			
431.	5226 <i>Passiflora foetida</i> (Stinking Passion Flower)	Y		
432.	14096 <i>Passiflora foetida</i> var. <i>hispida</i>	Y		
433.	13570 <i>Pavetta kimberleyana</i>			
434.	33482 <i>Peltophorum pterocarpum</i>	Y		
435.	17320 <i>Peperomia pellucida</i>	Y		
436.	546 <i>Perotis rara</i> (Comet Grass)			
437.	11020 <i>Persicaria hydropiper</i>			
438.	2263 <i>Persoonia falcata</i> (Wild Pear, Gandala)			
439.	18197 <i>Phyla nodiflora</i>	Y		
440.	6734 <i>Phyla nodiflora</i> var. <i>nodiflora</i>	Y		
441.	4673 <i>Phyllanthus amarus</i>	Y		
442.	45695 <i>Phyllanthus eremicus</i> (Desert Phyllanthus)			
443.	4680 <i>Phyllanthus maderaspatensis</i>			
444.	17794 <i>Phyllanthus tenellus</i>	Y		
445.	13927 <i>Phyllanthus urinaria</i>			
446.	20652 <i>Physalis angulata</i>	Y		
447.	<i>Pilea microphylla</i>			
448.	1045 <i>Pistia stratiotes</i> (Water Lettuce)	Y		
449.	17816 <i>Pluchea ferdinandi-muelleri</i>			
450.	43944 <i>Pluchea longiseta</i>			
451.	8168 <i>Pluchea rubelliflora</i>			
452.	8170 <i>Pluchea tetranthera</i>			
453.	2898 <i>Polycarpaea corymbosa</i>			
454.	2903 <i>Polycarpaea longiflora</i>			
455.	4577 <i>Polygala tepperi</i>			

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456.	6653	<i>Polymeria ambigua</i> (Morning Glory)			
457.	2881	<i>Portulaca filifolia</i>			
458.	2883	<i>Portulaca napiformis</i>			
459.	2884	<i>Portulaca oleracea</i> (Purslane, Wakati)			
460.	2886	<i>Portulaca pilosa</i> (Djanggara)	Y		
461.		<i>Praxelis clematidea</i>			
462.	6735	<i>Premna acuminata</i> (Ngalinginkal)			
463.	18207	<i>Psyrax attenuata</i> var. <i>tenella</i>			
464.	18208	<i>Psyrax pendulina</i>			
465.	41224	<i>Pterocaulon intermedium</i>			
466.	41223	<i>Pterocaulon paradoxum</i>			
467.	41221	<i>Pterocaulon serrulatum</i> var. <i>velutinum</i>			
468.	2704	<i>Ptilotus calostachyus</i> (Weeping Mulla Mulla)			
469.	2721	<i>Ptilotus exaltatus</i> (Tall Mulla Mulla)			
470.	2725	<i>Ptilotus fusiformis</i>			
471.	2737	<i>Ptilotus lanatus</i>			
472.	2751	<i>Ptilotus polystachyus</i> (Prince of Wales Feather)			
473.	3061	<i>Raphanus raphanistrum</i> (Wild Radish)	Y		
474.	5295	<i>Rhizophora stylosa</i> (Spotted-leaved Red Mangrove)			
475.	4190	<i>Rhynchosia australis</i> (Rhynchosia)			
476.	4191	<i>Rhynchosia minima</i> (Rhynchosia)			
477.		<i>Riccia limbata</i>			
478.	17890	<i>Ruellia tuberosa</i>	Y		
479.	30434	<i>Salsola australis</i>			
480.		<i>Santalum album</i>			
481.	2357	<i>Santalum lanceolatum</i> (Northern Sandalwood, Yarnguli)			
482.	13173	<i>Scaevola parvifolia</i> subsp. <i>parvifolia</i>			
483.	48834	<i>Schinus terebinthifolia</i>	Y		
484.	599	<i>Schizachyrium fragile</i> (Senale Redgrass)			
485.	989	<i>Schoenus falcatus</i>			
486.	1027	<i>Scleria brownii</i>			
487.	27274	<i>Sebdenia flabellata</i>			
488.	12303	<i>Senna costata</i>			
489.	12307	<i>Senna glutinosa</i> subsp. <i>glutinosa</i>			
490.	12312	<i>Senna notabilis</i>			
491.	10848	<i>Senna occidentalis</i>	Y		
492.	12313	<i>Senna oligoclada</i>			
493.	10818	<i>Senna planiticola</i>			
494.	46821	<i>Seringia nephrosperma</i> (Free carpel fire-bush)			
495.	31172	<i>Sersalisia sericea</i> (Nangi)			
496.	4196	<i>Sesbania cannabina</i> (Sesbania Pea)			
497.	4197	<i>Sesbania erubescens</i>			
498.	4198	<i>Sesbania formosa</i> (White Dragon Tree)			
499.	11235	<i>Sesbania simpliciuscula</i> var. <i>fitzroyensis</i>			
500.		<i>Sesbania</i> sp.			
501.	2818	<i>Sesuvium portulacastrum</i>			
502.	612	<i>Setaria surgens</i> (Pigeon Grass)			
503.	613	<i>Setaria verticillata</i> (Whorled Pigeon Grass)	Y		
504.	4973	<i>Sida cordifolia</i>	Y		
505.	4977	<i>Sida fibulifera</i> (Silver Sida)			
506.	4979	<i>Sida hackettiana</i>			
507.	18150	<i>Sida rohlenae</i> subsp. <i>occidentalis</i>			
508.	45274	<i>Sida</i> sp. <i>Pindan</i> (B.G. Thomson 3398)			
509.	4989	<i>Sida spinosa</i> (Spiny Sida)			
510.	6988	<i>Solanum americanum</i> (Glossy Nightshade)	Y		
511.	6991	<i>Solanum beaugleholei</i>			
512.	7000	<i>Solanum cunninghamii</i>			
513.	7001	<i>Solanum dioicum</i> (Gilu)			
514.	7002	<i>Solanum diversiflorum</i>			
515.	7007	<i>Solanum esuriale</i> (Quena)			
516.		<i>Solanum torvum</i>			
517.	27281	<i>Solieria robusta</i>			
518.	10920	<i>Soliva sessilis</i> (Jo-jo, Onehunga Weed)	Y		
519.	8231	<i>Sonchus oleraceus</i> (Common Sowthistle)	Y		
520.	44731	<i>Sonderophycus capensis</i>			
521.	12920	<i>Sorghum interjectum</i>			
522.	619	<i>Sorghum plumosum</i> (Plume Canegrass)			
523.	620	<i>Sorghum stipoides</i> (Annual Sorghum)			
524.	622	<i>Sorghum timorense</i>			
525.	28345	<i>Spermacoce dolichosperma</i>			

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
526.	20866	<i>Spermacoce hillii</i>			
527.	28347	<i>Spermacoce occidentalis</i>			
528.		<i>Spermacoce</i> sp.			
529.	625	<i>Spinifex longifolius</i> (Beach Spinifex)			
530.	629	<i>Sporobolus australasicus</i> (Fairy Grass)			
531.	633	<i>Sporobolus mitchellii</i> (Ratstail Couch)			
532.	635	<i>Sporobolus virginicus</i> (Marine Couch)			
533.	13104	<i>Stachytarpheta cayennensis</i>	Y		
534.	4731	<i>Stackhousia intermedia</i>			
535.	12487	<i>Stemodia florulenta</i>			
536.	12489	<i>Stemodia lathraia</i>			
537.	8239	<i>Streptoglossa macrocephala</i>			
538.	8240	<i>Streptoglossa odora</i>			
539.	7103	<i>Striga curviflora</i>			
540.	12353	<i>Stylosanthes hamata</i> (Verano Stylo)	Y		
541.	12354	<i>Stylosanthes scabra</i>	Y		
542.	2638	<i>Suaeda arbusculoides</i>			
543.	43203	<i>Surreya diandra</i>			
544.	3677	<i>Tamarindus indica</i> (Tamarind)	Y		
545.	31616	<i>Tecticornia auriculata</i>			
546.	33236	<i>Tecticornia halocnemoides</i> (Shrubby Samphire)			
547.	33238	<i>Tecticornia halocnemoides</i> subsp. <i>tenuis</i>			
548.	33356	<i>Tecticornia indica</i> subsp. <i>indica</i>			
549.	33357	<i>Tecticornia indica</i> subsp. <i>julacea</i>			
550.	33318	<i>Tecticornia indica</i> subsp. <i>leiostachya</i> (Samphire)			
551.	4266	<i>Tephrosia crocea</i> (Baynjood)			
552.	4272	<i>Tephrosia leptoclada</i>			
553.	4279	<i>Tephrosia remotiflora</i>			
554.	4280	<i>Tephrosia rosea</i> (Flinders River Poison, Bungoo'dah)			
555.	19529	<i>Tephrosia rosea</i> var. <i>rosea</i>			
556.	4281	<i>Tephrosia simplicifolia</i>			
557.	15949	<i>Tephrosia</i> sp. <i>D Kimberley Flora</i> (R.D. Royce 1848)			
558.	5303	<i>Terminalia ferdinandiana</i> (Mador)			
559.	5305	<i>Terminalia grandiflora</i> (Yalu)			
560.	5306	<i>Terminalia hadleyana</i>			
561.	5307	<i>Terminalia latipes</i>			
562.	5309	<i>Terminalia petiolaris</i> (Masroorl)			
563.	5314	<i>Terminalia volucris</i> (Rosewood)			
564.	669	<i>Thaumastochloa pubescens</i>			
565.	13362	<i>Themeda quadrivalvis</i> (Grader grass)	Y		
566.	4992	<i>Thespesia populneoides</i> (Laba)			
567.	7364	<i>Timonius timon</i>			
568.	2942	<i>Tinospora smilacina</i> (Snakevine, Oondala)			
569.	27335	<i>Tolypocladia calodictyon</i>			
570.	27336	<i>Tolypocladia glomerulata</i>			
571.	44305	<i>Trianthema pilosum</i>			
572.	2830	<i>Trianthema portulacastrum</i> (Giant Pigweed)	Y		
573.	44362	<i>Trianthema triquetrum</i>			
574.	44360	<i>Trianthema turgidifolium</i>			
575.	4368	<i>Tribulopsis angustifolia</i>			
576.	4375	<i>Tribulus cistoides</i>			
577.	4380	<i>Tribulus occidentalis</i> (Perennial Caltrop)			
578.	4383	<i>Tribulus terrestris</i> (Caltrop)	Y		
579.	6727	<i>Trichodesma zeylanicum</i> (Camel Bush, Kumbalin)			
580.	47242	<i>Trichodesma zeylanicum</i> var. <i>latiseipaleum</i>			
581.	8252	<i>Tridax procumbens</i> (Tridax, Tridax Daisy)	Y		
582.	4293	<i>Trifolium cernuum</i> (Drooping Flower Clover)	Y		
583.	34357	<i>Triodia caelestialis</i>			
584.	13131	<i>Triodia epactia</i>			
585.	691	<i>Triodia microstachya</i>			
586.	17873	<i>Triodia schinzii</i>			
587.	13468	<i>Triumfetta pentandra</i>	Y		
588.	27349	<i>Udotea flabellum</i>			
589.	34937	<i>Urarica lagopodioides</i>			
590.	715	<i>Urochloa mosambicensis</i> (Sabi Grass)	Y		
591.	717	<i>Urochloa piligera</i>			
592.	13902	<i>Urochloa praetervisa</i>			
593.	718	<i>Urochloa pubigera</i>			
594.	10865	<i>Urochloa subquadriflora</i>			
595.	36278	<i>Valonia aegagropila</i>			

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
596.	7663	<i>Velleia panduriformis</i> (Cabbage Poison)			
597.	4846	<i>Ventilago viminalis</i> (Supplejack, Barndaragu)			
598.	15725	<i>Verbesina encelioides</i>	Y		
599.	46275	<i>Verbesina encelioides</i> var. <i>encelioides</i> (Crownbeard, Wild Sunflower, Goldweed, South African Daisy)	Y		
600.	18503	<i>Vigna radiata</i> var. <i>sublobata</i>			
601.	48985	<i>Vincetoxicum carnosum</i>			
602.	48983	<i>Vincetoxicum cinerascens</i>			
603.		<i>Wahlenbergia</i> sp.			
604.	5106	<i>Waltheria indica</i>			
605.	725	<i>Whiteochloa airoides</i>			
606.	728	<i>Whiteochloa cymbiformis</i>			
607.	6578	<i>Wrightia saligna</i>			
608.	729	<i>Xerochloa barbata</i> (Rice Grass)			
609.	730	<i>Xerochloa imberbis</i> (Rice Grass)			
610.	732	<i>Yakirra australiensis</i>			
611.	735	<i>Yakirra pauciflora</i>			
612.	4847	<i>Ziziphus mauritiana</i> (Zornia)	Y		
613.	4327	<i>Zornia chaetophora</i>			
614.	12679	<i>Zornia muelleriana</i> subsp. <i>congesta</i>			
615.	12680	<i>Zornia prostrata</i> var. <i>prostrata</i>			

Conservation Codes

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

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

NatureMap Fauna Species Report

Created By Grant Buller on 01/11/2021

Kingdom Animalia
Current Names Only Yes
Core Datasets Only Yes
Method 'By Circle'
Centre 122° 25' 55" E, 17° 51' 32" S
Buffer 30km
Group By Conservation Status

Conservation Status	Species	Records
Non-conservation taxon	674	44389
Other specially protected fauna	3	52
Presumed extinct	1	1
Priority 2	2	4
Priority 3	4	28
Priority 4	10	880
Protected under international agreement	66	11233
Rare or likely to become extinct	23	3251
TOTAL	783	59838

Name ID	Species Name	Naturalised	Conservation Code	Endemic To Query Area
Rare or likely to become extinct				
1.	25350 <i>Aipysurus apraefrontalis</i> (Short-nosed Seasnake)		T	
2.	24783 <i>Calidris canutus</i> subsp. <i>rogersi</i> (Red Knot (north-eastern Siberia))		T	
3.	24784 <i>Calidris ferruginea</i> (Curlew Sandpiper)		T	
4.	24790 <i>Calidris tenuirostris</i> (Great Knot)		T	
5.	25575 <i>Charadrius leschenaultii</i> (Greater Sand Plover)		T	
6.	24372 <i>Charadrius leschenaultii</i> subsp. <i>leschenaultii</i> (Greater Sand Plover (Mongolian))		T	
7.	25576 <i>Charadrius mongolus</i> (Lesser Sand Plover)		T	
8.	24375 <i>Charadrius mongolus</i> subsp. <i>mongolus</i> (Lesser Sand Plover)		T	
9.	25336 <i>Chelonia mydas</i> (Green Turtle)		T	
10.	24093 <i>Dasyurus hallucatus</i> (Northern Quoll)		T	
11.	25342 <i>Eretmochelys imbricata</i> subsp. <i>bissa</i> (Hawksbill Turtle)		T	
12.	24473 <i>Falco hypoleucos</i> (Grey Falcon)		T	
13.	24150 <i>Isodon auratus</i> subsp. <i>auratus</i> (Golden Bandicoot (mainland), Wintarru)		T	
14.	25343 <i>Lepidochelys olivacea</i> (Olive Ridley Turtle, Pacific Ridley Turtle)		T	
15.	24796 <i>Limosa lapponica</i> subsp. <i>menzbieri</i> (Bar-tailed Godwit (northern Siberian))		T	
16.	24168 <i>Macrotis lagotis</i> (Bilby, Dalgtye, Ninu)		T	
17.	25344 <i>Natator depressus</i> (Flatback Turtle)		T	
18.	24798 <i>Numenius madagascariensis</i> (Eastern Curlew)		T	
19.	48069 <i>Phascogale tapoatafa</i> subsp. <i>kimberleyensis</i> (Kimberley Brush-tailed Phascogale)		T	
20.	34037 <i>Pristis zijsron</i> (Green Sawfish)		T	
21.	24715 <i>Puffinus huttoni</i> (Hutton's Shearwater)		T	
22.	48237 <i>Rostratula australis</i> (Australian Painted Snipe)		T	
23.	24157 <i>Trichosurus vulpecula</i> subsp. <i>arnhemensis</i> (northern brushtail possum (Kimberley))		T	
Presumed extinct				
24.	24161 <i>Bettongia lesueur</i> subsp. <i>graii</i> (Boodie (inland), Burrowing Bettong (inland))		X	
Protected under international agreement				
25.	41323 <i>Actitis hypoleucos</i> (Common Sandpiper)		IA	
26.	24314 <i>Anas querquedula</i> (Garganey)		IA	
27.	25634 <i>Anous stolidus</i> (Common Noddy)		IA	
28.	24505 <i>Anous stolidus</i> subsp. <i>pileatus</i> (Common Noddy)		IA	
29.	25554 <i>Apus pacificus</i> (Fork-tailed Swift, Pacific Swift)		IA	
30.	24334 <i>Apus pacificus</i> subsp. <i>pacificus</i> (Fork-tailed Swift, Pacific Swift)		IA	
31.	48573 <i>Ardenna pacifica</i> (Wedge-tailed Shearwater)		IA	
32.	41328 <i>Ardenna tenuirostris</i> (Short-tailed Shearwater)		IA	
33.	25736 <i>Arenaria interpres</i> (Ruddy Turnstone)		IA	
34.	24778 <i>Arenaria interpres</i> subsp. <i>interpres</i> (Ruddy Turnstone)		IA	
35.	24685 <i>Bulweria bulwerii</i> (Bulwer's Petrel)		IA	
36.	24779 <i>Calidris acuminata</i> (Sharp-tailed Sandpiper)		IA	

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
37.	24780	<i>Calidris alba</i> (Sanderling)		IA	
38.	25738	<i>Calidris canutus</i> (Red Knot, knot)		IA	
39.	24786	<i>Calidris melanotos</i> (Pectoral Sandpiper)		IA	
40.	24788	<i>Calidris ruficollis</i> (Red-necked Stint)		IA	
41.	24789	<i>Calidris subminuta</i> (Long-toed Stint)		IA	
42.	24686	<i>Calonectris leucomelas</i> (Streaked Shearwater)		IA	
43.	47902	<i>Cecropis daurica</i> (Red-rumped Swallow)		IA	
44.	25574	<i>Charadrius dubius</i> (Little Ringed Plover)		IA	
45.	24378	<i>Charadrius veredus</i> (Oriental Plover)		IA	
46.	41332	<i>Chlidonias leucopterus</i> (White-winged Black Tern, white-winged tern)		IA	
47.	47919	<i>Cuculus optatus</i> (Oriental Cuckoo)		IA	
48.	24478	<i>Fregata ariel</i> (Lesser Frigatebird)		IA	
49.	24479	<i>Fregata minor</i> (great frigatebird, Greater Frigatebird)		IA	
50.	24792	<i>Gallinago megala</i> (Swinhoe's Snipe)		IA	
51.	24793	<i>Gallinago stenura</i> (Pin-tailed Snipe)		IA	
52.	47954	<i>Gelochelidon nilotica</i> (Gull-billed Tern)		IA	
53.	24481	<i>Glareola maldivarum</i> (Oriental Pratincole)		IA	
54.	25555	<i>Hirundapus caudacutus</i> (White-throated Needletail)		IA	
55.	25630	<i>Hirundo rustica</i> (Barn Swallow)		IA	
56.	48587	<i>Hydroprogne caspia</i> (Caspian Tern)		IA	
57.	25739	<i>Limicola falcinellus</i> (Broad-billed Sandpiper)		IA	
58.	24794	<i>Limicola falcinellus</i> subsp. <i>sibiricus</i> (Broad-billed Sandpiper)		IA	
59.	24795	<i>Limnodromus semipalmatus</i> (Asian Dowitcher)		IA	
60.	30932	<i>Limosa lapponica</i> (Bar-tailed Godwit)		IA	
61.	25741	<i>Limosa limosa</i> (Black-tailed Godwit)		IA	
62.	24797	<i>Limosa limosa</i> subsp. <i>melanuroides</i> (Black-tailed Godwit)		IA	
63.	24691	<i>Macronectes halli</i> (Northern Giant Petrel)		IA	
64.	30877	<i>Motacilla cinerea</i> (Grey Wagtail)		IA	
65.	25672	<i>Motacilla flava</i> (Yellow Wagtail)		IA	
66.	24799	<i>Numenius minutus</i> (Little Curlew, Little Whimbrel)		IA	
67.	25742	<i>Numenius phaeopus</i> (Whimbrel)		IA	
68.	24497	<i>Oceanites oceanicus</i> (Wilson's Storm-petrel)		IA	
69.	41347	<i>Onychoprion anaethetus</i> (Bridled Tern)		IA	
70.	48591	<i>Pandion cristatus</i> (Osprey, Eastern Osprey)		IA	
71.	24801	<i>Phalaropus lobatus</i> (Red-necked Phalarope)		IA	
72.	24802	<i>Philomachus pugnax</i> (Ruff, reeve)		IA	
73.	24843	<i>Plegadis falcinellus</i> (Glossy Ibis)		IA	
74.	24382	<i>Pluvialis fulva</i> (Pacific Golden Plover)		IA	
75.	24383	<i>Pluvialis squatarola</i> (Grey Plover)		IA	
76.	24716	<i>Puffinus pacificus</i> (Wedge-tailed Shearwater)		IA	
77.	24517	<i>Stercorarius parasiticus</i> (Arctic jaeger, Arctic Skua)		IA	
78.	25640	<i>Sterna dougallii</i> (Roseate Tern)		IA	
79.	24524	<i>Sterna dougallii</i> subsp. <i>gracilis</i> (Roseate Tern)		IA	
80.	25642	<i>Sterna hirundo</i> (Common Tern)		IA	
81.	24527	<i>Sterna hirundo</i> subsp. <i>longipennis</i> (Common Tern)		IA	
82.	48593	<i>Sternula albifrons</i> (Little Tern)		IA	
83.	25754	<i>Sula leucogaster</i> (Brown Booby)		IA	
84.	24828	<i>Sula leucogaster</i> subsp. <i>plotus</i> (Brown Booby)		IA	
85.	48597	<i>Thalasseus bergii</i> (Crested Tern)		IA	
86.	24806	<i>Tringa glareola</i> (Wood Sandpiper)		IA	
87.	24808	<i>Tringa nebularia</i> (Common Greenshank, greenshank)		IA	
88.	24809	<i>Tringa stagnatilis</i> (Marsh Sandpiper, little greenshank)		IA	
89.	24810	<i>Tringa totanus</i> (Common Redshank, redshank)		IA	
90.	41351	<i>Xenus cinereus</i> (Terek Sandpiper)		IA	
Other specially protected fauna					
91.	24084	<i>Dugong dugon</i> (Dugong)		S	
92.	25624	<i>Falco peregrinus</i> (Peregrine Falcon)		S	
93.	24051	<i>Megaptera novaeangliae</i> (Humpback Whale)		S	
Priority 2					
94.	25170	<i>Lerista separanda</i> (Dampierland plain slider, skink)		P2	
95.	25268	<i>Simoselaps minimus</i> (Dampierland Burrowing Snake)		P2	
Priority 3					
96.	25024	<i>Ctenotus angusticeps</i> (Airlie Island Ctenotus, Northwestern coastal Ctenotus)		P3	
97.	24819	<i>Ninox connivens</i> subsp. <i>connivens</i> (Barking owl (southwest subpop.))		P3	
98.	48077	<i>Pristis pristis</i> (Freshwater Sawfish, Largetooth Sawfish)		P3	
99.	24855	<i>Tyto novaehollandiae</i> subsp. <i>novaehollandiae</i> (Masked Owl (southwest))		P3	
Priority 4					
100.	24291	<i>Elanus scriptus</i> (Letter-winged Kite)		P4	

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
101.	24632	<i>Erythrura gouldiae</i> (Gouldian Finch)		P4	
102.	24215	<i>Hydromys chrysogaster</i> (Water-rat, Rakali)		P4	
103.	47975	<i>Ixobrychus dubius</i> (Australian Little Bittern)		P4	
104.	25479	<i>Lagorchestes conspicillatus</i> (Spectacled Hare-wallaby)		P4	
105.	24222	<i>Mesembriomys macrurus</i> (Golden-backed Tree-rat)		P4	
106.	24060	<i>Orcaella heinsohni</i> (Australian Snubfin Dolphin)		P4	
107.	24752	<i>Polytelis alexandrae</i> (Princess Parrot)		P4	
108.	24803	<i>Tringa brevipes</i> (Grey-tailed Tattler)		P4	
109.	24159	<i>Wyulda squamicaudata</i> (Scaly-tailed Possum)		P4	

Non-conservation taxon

110.		? ?			
111.		<i>Abudefduf bengalensis</i>			
112.		<i>Abudefduf</i> sp.			
113.	24559	<i>Acanthagenys rufogularis</i> (Spiny-cheeked Honeyeater)			
114.	24260	<i>Acanthiza apicalis</i> (Broad-tailed Thornbill, Inland Thornbill)			
115.		<i>Acanthopagrus latus</i>			
116.		<i>Acanthopagrus palmaris</i>			
117.		<i>Acanthurus dussumieri</i>			
118.		<i>Acanthurus grammoptilus</i>			
119.		<i>Acanthurus</i> sp.			
120.	25535	<i>Accipiter cirrocephalus</i> (Collared Sparrowhawk)			
121.	24281	<i>Accipiter cirrocephalus</i> subsp. <i>cirrocephalus</i> (Collared Sparrowhawk)			
122.	25536	<i>Accipiter fasciatus</i> (Brown Goshawk)			
123.	24283	<i>Accipiter fasciatus</i> subsp. <i>didimus</i> (Brown Goshawk)			
124.	24282	<i>Accipiter fasciatus</i> subsp. <i>fasciatus</i> (Brown Goshawk)			
125.	25537	<i>Accipiter novaehollandiae</i> (Grey Goshawk)			
126.		<i>Acentrogobius nebulosus</i>			Y
127.		<i>Acentrogobius viridipunctatus</i>			
128.	25755	<i>Acrocephalus australis</i> (Australian Reed Warbler)			
129.	25544	<i>Aegotheles cristatus</i> (Australian Owlet-nightjar)			
130.	25355	<i>Aipysurus laevis</i> (Olive Seasnake)			
131.	42369	<i>Aipysurus mosaicus</i> (Mosaic Seasnake)			
132.	25357	<i>Aipysurus tenuis</i> (Brown-lined Seasnake)			
133.		<i>Alectis indica</i>			
134.	42372	<i>Amalosia rhombifer</i> (Zigzag velvet gecko)			
135.		<i>Amauromis cinerea</i>			
136.		<i>Ambassis vachellii</i>			
137.		<i>Amblyomma moreliae</i>			
138.		<i>Amniataba caudavittata</i>			
139.	30831	<i>Amphibolurus gilberti</i> (Ta-ta, Gilbert's Dragon)			
140.		<i>Amphiprion rubrocinctus</i>			
141.	24310	<i>Anas castanea</i> (Chestnut Teal)			
142.	24312	<i>Anas gracilis</i> (Grey Teal)			
143.		<i>Anas platyrhynchos</i> subsp. <i>domesticus</i>			
144.	24315	<i>Anas rhynchotis</i> (Australasian Shoveler)			
145.	24316	<i>Anas superciliosa</i> (Pacific Black Duck)			
146.		<i>Anguilla bicolor</i>			
147.	47414	<i>Anhinga novaehollandiae</i> (Australasian Darter)			
148.	44632	<i>Anilios diversus</i>			Y
149.	44635	<i>Anilios grypus</i>			
150.	24317	<i>Anseranas semipalmata</i> (Magpie Goose, Pied Goose)			
151.	25317	<i>Antaresia childreni</i> (Children's Python)			
152.	25448	<i>Antaresia stimsoni</i> (Stimson's Python)			
153.	25241	<i>Antaresia stimsoni</i> subsp. <i>stimsoni</i> (Stimson's Python)			
154.	24600	<i>Anthus cervinus</i> (Red-throated Pipit)			
155.		<i>Apogon cookii</i>			
156.		<i>Apogon doederleini</i>			
157.		<i>Apogon pallidofasciatus</i>			
158.		<i>Apogon rueppellii</i>			
159.		<i>Apogon</i> sp.			
160.	24719	<i>Aprosmictus erythropterus</i> (Red-winged Parrot)			
161.	24285	<i>Aquila audax</i> (Wedge-tailed Eagle)			
162.		<i>Archamia biguttata</i>			
163.	24337	<i>Ardea garzetta</i> subsp. <i>nigripes</i> (Little Egret)			
164.	25558	<i>Ardea ibis</i> (Cattle Egret)			
165.	25559	<i>Ardea intermedia</i> (Intermediate Egret)			
166.	24339	<i>Ardea intermedia</i> subsp. <i>intermedia</i> (Intermediate Egret)			
167.	41324	<i>Ardea modesta</i> (great egret, white egret)			
168.	24340	<i>Ardea novaehollandiae</i> (White-faced Heron)			
169.	24341	<i>Ardea pacifica</i> (White-necked Heron)			

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170.	25560	<i>Ardea sacra</i> (Eastern Reef Egret, Eastern Reef Heron)			
171.	24343	<i>Ardea sacra</i> subsp. <i>sacra</i> (Eastern Reef Egret, Eastern Reef Heron)			
172.		<i>Ardea</i> sp.			Y
173.	24344	<i>Ardea sumatrana</i> (Great-billed Heron)			
174.	24610	<i>Ardeotis australis</i> (Australian Bustard)			
175.		<i>Arius</i> sp.			
176.		<i>Arothron hispidus</i>			
177.		<i>Arothron manilensis</i>			
178.		<i>Arrhamphus sclerolepis</i>			
179.	25566	<i>Artamus cinereus</i> (Black-faced Woodswallow)			
180.	25567	<i>Artamus leucorhynchus</i> (White-breasted Woodswallow)			
181.	24354	<i>Artamus leucorhynchus</i> subsp. <i>leucopygialis</i> (White-breasted Woodswallow)			
182.	24355	<i>Artamus minor</i> (Little Woodswallow)			
183.	24356	<i>Artamus personatus</i> (Masked Woodswallow)			
184.	24357	<i>Artamus superciliosus</i> (White-browed Woodswallow)			
185.		<i>Arthrorhabdus paucispinus</i>			
186.	25320	<i>Aspidites melanocephalus</i> (Black-headed Python)			
187.		<i>Atherinomorus endrachtensis</i>			
188.		<i>Austracantha minax</i>			
189.	25539	<i>Aviceda subcristata</i> (Pacific Baza)			
190.	24318	<i>Aythya australis</i> (Hardhead)			
191.		<i>Backobourkia collina</i>			
192.		<i>Bathygobius fuscus</i>			
193.		<i>Batrachomoeus dahli</i>			
194.		<i>Batrachomoeus occidentalis</i>			
195.		<i>Blennodesmus scapularis</i>			
196.		<i>Boleophthalmus caeruleomaculatus</i>			
197.	24251	<i>Bos taurus</i> (European Cattle)	Y		
198.		<i>Brachysomophis cirrocheilos</i>			
199.	25334	<i>Brachyuropis roperi</i> (Northern Shovel-nosed Snake)			
200.	24359	<i>Burhinus grallarius</i> (Bush Stone-curlew)			
201.	47897	<i>Butorides striata</i> (Striated Heron, Mangrove Heron)			
202.	25713	<i>Cacatua galerita</i> (Sulphur-crested Cockatoo)			
203.	24726	<i>Cacatua roseicapilla</i> subsp. <i>roseicapilla</i> (Galah)			
204.	25716	<i>Cacatua sanguinea</i> (Little Corella)			
205.	24728	<i>Cacatua sanguinea</i> subsp. <i>sanguinea</i> (Little Corella)			
206.	42307	<i>Cacomantis pallidus</i> (Pallid Cuckoo)			
207.	25599	<i>Cacomantis variolosus</i> (Brush Cuckoo)			
208.	24787	<i>Calidris minuta</i> (Little Stint)			
209.	25717	<i>Calyptorhynchus banksii</i> (Red-tailed Black-Cockatoo)			
210.	24254	<i>Camelus dromedarius</i> (Dromedary, Camel)	Y		
211.		<i>Caranx bucculentus</i>			
212.		<i>Caranx ignobilis</i>			
213.		<i>Caranx sexfasciatus</i>			
214.		<i>Caranx</i> sp.			
215.	25012	<i>Carlia amax</i> (Two-spined Rainbow Skink)			
216.	25015	<i>Carlia munda</i> (Shaded-litter Rainbow Skink)			
217.	25016	<i>Carlia rufilatus</i> (Red-sided Rainbow Skink)			
218.	25017	<i>Carlia triacantha</i> (Desert Rainbow Skink)			
219.		<i>Centruscus scutatus</i>			
220.		<i>Centrogenys vaigiensis</i>			
221.	25600	<i>Centropus phasianinus</i> (Pheasant Coucal)			
222.	30884	<i>Centropus phasianinus</i> subsp. <i>phasianinus</i> (Pheasant Coucal)			
223.		<i>Cephalopholis boenak</i>			
224.	24564	<i>Certhionyx variegatus</i> (Pied Honeyeater)			
225.	24181	<i>Chaerephon jobensis</i> (Greater Northern Freetail-bat, Northern Mastiff Bat)			
226.		<i>Chaetodon aureofasciatus</i>			
227.		<i>Chaetodontoplus duboulayi</i>			
228.	24186	<i>Chalinolobus gouldii</i> (Gould's Wattled Bat)			
229.	24188	<i>Chalinolobus nigrogriseus</i> (Hoary Wattled Bat)			
230.		<i>Chanos chanos</i>			
231.	24377	<i>Charadrius ruficapillus</i> (Red-capped Plover)			
232.		<i>Chelmon marginalis</i>			
233.		<i>Chelmon muelleri</i>			
234.	42382	<i>Chelodina burrungandjii</i> (Northern Long-necked Turtle)			
235.		<i>Chelonodon patoca</i>			
236.	24321	<i>Chenonetta jubata</i> (Australian Wood Duck, Wood Duck)			
237.	47909	<i>Cheramoeca leucosterna</i> (White-backed Swallow)			
238.		<i>Chiloscyllium punctatum</i>			
239.		<i>Chirocentrus dorab</i>			

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240.	24863	<i>Chlamydosaurus kingii</i> (Frill-necked Lizard)			
241.		<i>Choerodon cyanodus</i>			
242.		<i>Choerodon schoenleinii</i>			
243.		<i>Choerodon</i> sp.			
244.		<i>Chroicocephalus novaehollandiae</i>			
245.		<i>Chromileptes altivelis</i>			
246.	24431	<i>Chrysococcyx basalis</i> (Horsfield's Bronze Cuckoo)			
247.	24433	<i>Chrysococcyx minutillus</i> subsp. <i>minutillus</i> (Little Bronze Cuckoo)			
248.	24434	<i>Chrysococcyx osculans</i> (Black-eared Cuckoo)			
249.	24288	<i>Circus approximans</i> (Swamp Harrier)			
250.	24289	<i>Circus assimilis</i> (Spotted Harrier)			
251.	24565	<i>Cissomela pectoralis</i> (Banded Honeyeater)			
252.	25756	<i>Cisticola exilis</i> (Golden-headed Cisticola)			
253.	24835	<i>Cisticola exilis</i> subsp. <i>exilis</i> (Golden-headed Cisticola)			
254.	24774	<i>Cladorhynchus leucocephalus</i> (Banded Stilt)			
255.	25675	<i>Colluricincla harmonica</i> (Grey Shrike-thrush)			
256.	24399	<i>Columba livia</i> (Domestic Pigeon)	Y		
257.		<i>Conger cinereus</i>			
258.		<i>Congrogadus subducens</i>			
259.	24566	<i>Conopophila rufogularis</i> (Rufous-throated Honeyeater)			
260.	25568	<i>Coracina novaehollandiae</i> (Black-faced Cuckoo-shrike)			
261.	24362	<i>Coracina novaehollandiae</i> subsp. <i>novaehollandiae</i> (Black-faced Cuckoo-shrike)			
262.	25569	<i>Coracina papuensis</i> (White-bellied Cuckoo-shrike, Little Cuckoo-shrike)			
263.	24416	<i>Corvus bennetti</i> (Little Crow)			
264.	25593	<i>Corvus orru</i> (Torresian Crow)			
265.	24418	<i>Corvus orru</i> subsp. <i>ceciliae</i> (Western Crow)			
266.		<i>Cosmophasis baehrae</i>			
267.	24671	<i>Coturnix pectoralis</i> (Stubble Quail)			
268.	25701	<i>Coturnix ypsilophora</i> (Brown Quail)			
269.	24672	<i>Coturnix ypsilophora</i> subsp. <i>cervina</i> (Brown Quail)			
270.	24420	<i>Cracticus nigrogularis</i> (Pied Butcherbird)			
271.	25595	<i>Cracticus tibicen</i> (Australian Magpie)			
272.	25596	<i>Cracticus torquatus</i> (Grey Butcherbird)			
273.		<i>Craterocephalus pauciradiatus</i>			
274.	24921	<i>Crenadactylus ocellatus</i> subsp. <i>rostralis</i> (Clawless Gecko)			
275.	42383	<i>Cryptoblepharus metallicus</i>			
276.	30890	<i>Cryptoblepharus ruber</i>			
277.	30891	<i>Cryptoblepharus tyttos</i>			
278.	24865	<i>Ctenophorus caudicinctus</i> subsp. <i>caudicinctus</i> (Ring-tailed Dragon)			
279.	24876	<i>Ctenophorus isolepis</i> subsp. <i>isolepis</i> (Crested Dragon, Military Dragon)			
280.	24882	<i>Ctenophorus nuchalis</i> (Central Netted Dragon)			
281.	25033	<i>Ctenotus colletti</i>			
282.	25048	<i>Ctenotus inornatus</i>			
283.	25463	<i>Ctenotus pantherinus</i> (Leopard Ctenotus)			
284.	25061	<i>Ctenotus pantherinus</i> subsp. <i>calx</i> (Leopard Ctenotus)			
285.	25070	<i>Ctenotus robustus</i>			
286.	25073	<i>Ctenotus saxatilis</i> (Rock Ctenotus)			
287.	25077	<i>Ctenotus serventyi</i>			
288.	47921	<i>Cyanoptila cyanomelana</i> (Blue and White Flycatcher)			Y
289.	25371	<i>Cyclorana australis</i> (Giant Frog)			
290.	25374	<i>Cyclorana longipes</i> (Long-footed Frog)			
291.		<i>Cyclosa camelodes</i>			
292.	24322	<i>Cygnus atratus</i> (Black Swan)			
293.		<i>Cymbacephalus nematophthalmus</i>			
294.		<i>Cynoglossus</i> sp.			
295.		<i>Cypselurus</i> sp.			
296.	25547	<i>Dacelo leachii</i> (Blue-winged Kookaburra)			
297.	24304	<i>Dacelo leachii</i> subsp. <i>leachii</i> (Blue-winged Kookaburra)			
298.		<i>Dampierosa daruma</i>			
299.	25673	<i>Daphoenositta chrysoptera</i> (Varied Sittella)			
300.	24605	<i>Daphoenositta chrysoptera</i> subsp. <i>leucoptera</i> (Varied Sittella, White-winged Sittella)			
301.	30830	<i>Delma desmosa</i>			
302.	25004	<i>Delma tincta</i>			
303.	42390	<i>Demansia angusticeps</i>			
304.	24324	<i>Dendrocygna arcuata</i> (Wandering Whistling Duck, Chestnut Whistling Duck)			
305.	24325	<i>Dendrocygna eytoni</i> (Plumed Whistling Duck)			
306.	25607	<i>Dicaeum hirundinaceum</i> (Mistletoebird)			
307.	24926	<i>Diplodactylus conspicillatus</i> (Fat-tailed Gecko)			
308.	24896	<i>Diporiphora pindan</i> (Pindan Dragon)			
309.		<i>Drepane punctata</i>			

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310.	24470	<i>Dromaius novaehollandiae</i> (Emu)			
311.		<i>Drombus</i> sp.			
312.		<i>Drombus triangularis</i>			
313.	25584	<i>Ducula bicolor</i> (Pied Imperial Pigeon)			
314.		<i>Echeneis naucratis</i>			
315.		<i>Egretta garzetta</i>			
316.		<i>Egretta novaehollandiae</i>			
317.		<i>Egretta picata</i>			
318.		<i>Elanus axillaris</i>			
319.	25540	<i>Elanus caeruleus</i> (Black-shouldered Kite)			
320.	24290	<i>Elanus caeruleus</i> subsp. <i>axillaris</i> (Australian Black-shouldered Kite)			
321.		<i>Elates ransonnetii</i>			
322.		<i>Eleutheronema tetradactylum</i>			
323.		<i>Elops hawaiiensis</i>			
324.	47937	<i>Elseyornis melanops</i> (Black-fronted Dotterel)			
325.	24631	<i>Emblema pictum</i> (Painted Finch)			
326.		<i>Enneapterygius gracilis</i>			
327.		<i>Enneapterygius larsonae</i>			
328.		<i>Eolophus roseicapillus</i>			
329.	25362	<i>Ephalophis greyae</i>			
330.	25578	<i>Ephippiorhynchus asiaticus</i> (Black-necked Stork)			
331.		<i>Epinephelus areolatus</i>			
332.		<i>Epinephelus coioides</i>			
333.		<i>Epinephelus corallicola</i>			
334.		<i>Epinephelus fasciatus</i>			
335.		<i>Epinephelus homosinensis</i> (invalid)			
336.		<i>Epinephelus malabaricus</i>			
337.		<i>Epinephelus ongus</i> ?			Y
338.		<i>Epinephelus quoyanus</i>			
339.		<i>Epinephelus</i> sp.			
340.	24568	<i>Epthianura aurifrons</i> (Orange Chat)			
341.	24569	<i>Epthianura crocea</i> (Yellow Chat)			
342.	24570	<i>Epthianura tricolor</i> (Crimson Chat)			
343.	24258	<i>Equus caballus</i> (Horse)	Y		
344.	42404	<i>Eremiascincus isolepis</i>			
345.		<i>Eriophora biapicata</i>			
346.	24379	<i>Erythronys cinctus</i> (Red-kneed Dotterel)			
347.	47938	<i>Esacus magnirostris</i> (Beach Stone-curlew, Beach Thick-knee)			
348.	24368	<i>Eurostopodus argus</i> (Spotted Nightjar)			
349.	25591	<i>Eurystomus orientalis</i> (Dollarbird)			
350.	24415	<i>Eurystomus orientalis</i> subsp. <i>pacificus</i> (Dollarbird)			
351.		<i>Eusurculus pistillum</i>			
352.		<i>Eviota queenslandica</i>			
353.		<i>Eviota</i> sp.			
354.	25621	<i>Falco berigora</i> (Brown Falcon)			
355.	24471	<i>Falco berigora</i> subsp. <i>berigora</i> (Brown Falcon)			
356.	25622	<i>Falco cenchroides</i> (Australian Kestrel, Nankeen Kestrel)			
357.	24472	<i>Falco cenchroides</i> subsp. <i>cenchrionides</i> (Australian Kestrel, Nankeen Kestrel)			
358.	25623	<i>Falco longipennis</i> (Australian Hobby)			
359.	24474	<i>Falco longipennis</i> subsp. <i>longipennis</i> (Australian Hobby)			
360.	24476	<i>Falco subniger</i> (Black Falcon)			
361.	24041	<i>Felis catus</i> (Cat)	Y		
362.		<i>Fistularia petimba</i>			
363.	25327	<i>Fordonia leucobalia</i> (White-bellied Mangrove Snake)			
364.		<i>Fowleria aurita</i>			
365.	25727	<i>Fulica atra</i> (Eurasian Coot)			
366.	25301	<i>Furina ornata</i> (Moon Snake)			
367.	25730	<i>Gallirallus philippensis</i> (Buff-banded Rail)			
368.	24765	<i>Gallirallus philippensis</i> subsp. <i>mellori</i> (Buff-banded Rail)			
369.	42314	<i>Gavialis virescens</i> (Singing Honeyeater)			
370.		<i>Gea theridioides</i>			
371.	24952	<i>Gehyra australis</i>			
372.		<i>Gehyra kimberleyi</i>			
373.	24956	<i>Gehyra pilbara</i>			
374.	24959	<i>Gehyra variegata</i>			
375.		Gen. ? sp.			Y
376.	24401	<i>Geopelia cuneata</i> (Diamond Dove)			
377.	24402	<i>Geopelia humeralis</i> (Bar-shouldered Dove)			
378.	25585	<i>Geopelia striata</i> (Zebra Dove)			
379.	24403	<i>Geopelia striata</i> subsp. <i>placida</i> (Peaceful Dove)			

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380.	24404	<i>Geophaps plumifera</i> (Spinifex Pigeon)			
381.		<i>Gerres</i> sp.			
382.		<i>Gerres subfasciatus</i>			
383.	25530	<i>Gerygone fusca</i> (Western Gerygone)			
384.	25531	<i>Gerygone levigaster</i> (Mangrove Gerygone)			
385.	24273	<i>Gerygone levigaster</i> subsp. <i>levigaster</i> (Mangrove Gerygone)			
386.	25533	<i>Gerygone olivacea</i> (White-throated Gerygone)			
387.	24276	<i>Gerygone tenebrosa</i> (Dusky Gerygone)			
388.	24443	<i>Grallina cyanoleuca</i> (Magpie-lark)			
389.	24484	<i>Grus rubicunda</i> (Brolga)			
390.		<i>Gymnothorax favagineus</i>			
391.		<i>Gymnothorax pseudothyroideus</i>			
392.		<i>Gymnothorax undulatus</i>			
393.	25627	<i>Haematopus fuliginosus</i> (Sooty Oystercatcher)			
394.	24487	<i>Haematopus longirostris</i> (Pied Oystercatcher)			
395.	24293	<i>Haliaeetus leucogaster</i> (White-bellied Sea-Eagle)			
396.	25541	<i>Haliastur indus</i> (Brahminy Kite)			
397.	24294	<i>Haliastur indus</i> subsp. <i>girrenera</i> (Brahminy Kite)			
398.	24295	<i>Haliastur spheurnus</i> (Whistling Kite)			
399.		<i>Halichoeres nigrescens</i>			
400.		<i>Halophryne diemensis</i>			
401.		<i>Halophryne ocellatus</i>			
402.	24296	<i>Hamirostra isura</i> (Square-tailed Kite)			
403.	24297	<i>Hamirostra melanostemon</i> (Black-breasted Buzzard)			
404.		<i>Haplogenyis kishinouyei</i>			
405.	25232	<i>Hemidactylus frenatus</i> (Asian House Gecko)	Y		
406.		<i>Hemiscyllium trispeculare</i>			
407.		<i>Herklotsichthys blackburni</i>			
408.	24633	<i>Heteromunia pectoralis</i> (Pictorella Mannikin)			
409.	24961	<i>Heteronotia binoei</i> (Bynoe's Gecko)			
410.		<i>Heteropoda renibulbis</i>			
411.	47965	<i>Hieraaetus morphnoides</i> (Little Eagle)			
412.	25734	<i>Himantopus himantopus</i> (Black-winged Stilt)			
413.	24775	<i>Himantopus himantopus</i> subsp. <i>leucocephalus</i> (Black-winged Stilt)			
414.		<i>Himantura uarnak</i>			
415.		<i>Hippichthys gazella</i> (invalid)			Y
416.		<i>Hippichthys penicillus</i>			
417.		<i>Hippocampus angustus</i>			
418.		<i>Hippocampus</i> sp.			
419.	24491	<i>Hirundo neoxena</i> (Welcome Swallow)			
420.		<i>Hogna crispipes</i>			
421.	25363	<i>Hydrelaps darwiniensis</i>			
422.	44656	<i>Hydrophis major</i> (Olive-headed seasnake, greater seasnake)			
423.	43369	<i>Hydrophis peronii</i> (Spiny-headed Seasnake)			
424.	43385	<i>Hydrophis stokesii</i> (Stoke's Seasnake, Sea Snake)			
425.		<i>Hypoatherina temminckii</i>			
426.		<i>Ichthyoscopus insperatus</i>			
427.		<i>Ichthyoscopus spinosus</i>			
428.	47973	<i>Irediparra gallinacea</i> (Comb-crested Jacana)			
429.		<i>Isometrus maculatus</i>			Y
430.		<i>Istigobius decoratus</i>			
431.		<i>Istigobius diadema</i>			
432.		<i>Istigobius nigroocellatus</i>			
433.		<i>Istigobius ornatus</i>			
434.		<i>Istigobius?</i> sp.			
435.	25562	<i>Ixobrychus flavicollis</i> (Black Bittern)			
436.		<i>Johnius amblycephalus</i>			
437.		<i>Labracinus lineatus</i>			
438.		<i>Lactoria cornuta</i>			
439.		<i>Laiphognathus multimaculatus</i>			
440.	24367	<i>Lalage tricolor</i> (White-winged Triller)			
441.	30851	<i>Larus fuscus</i> (Lesser Black-backed Gull, Baltic Gull)			Y
442.	25637	<i>Larus novaehollandiae</i> (Silver Gull)			
443.	24511	<i>Larus novaehollandiae</i> subsp. <i>novaehollandiae</i> (Silver Gull)			
444.		<i>Latrodectus geometricus</i>			
445.		<i>Latrodectus hasseltii</i>			
446.		<i>Leiognathus equulus</i>			
447.		<i>Leptobrama muelleri</i>			
448.	25121	<i>Lerista apoda</i>			
449.	25125	<i>Lerista bipes</i>			

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450.	25138	<i>Lerista griffini</i>			
451.	25146	<i>Lerista labialis</i>			
452.		<i>Lethrinus laticaudis</i>			
453.		<i>Lethrinus</i> sp.			
454.	25005	<i>Lialis burtonis</i>			
455.	25661	<i>Lichmera indistincta</i> (Brown Honeyeater)			
456.	24582	<i>Lichmera indistincta</i> subsp. <i>indistincta</i> (Brown Honeyeater)			
457.	25380	<i>Litoria caerulea</i> (Green Tree Frog)			
458.	25389	<i>Litoria nasuta</i> (Striped Rocket Frog)			
459.	25391	<i>Litoria rothii</i> (Northern Laughing Tree Frog)			
460.	25392	<i>Litoria rubella</i> (Little Red Tree Frog)			
461.		<i>Liza alata</i>			
462.		<i>Liza subviridis</i>			
463.		<i>Liza vaigiensis</i>			
464.	25683	<i>Lonchura castaneothorax</i> (Chestnut-breasted Mannikin)			
465.		<i>Lophiocharon trisignatus</i>			
466.		<i>Lophoictinia isura</i>			
467.	30933	<i>Lucasium stenodactylum</i>			
468.		<i>Lutjanus carponotatus</i>			
469.		<i>Lutjanus erythropterus</i>			
470.		<i>Lutjanus lemniscatus</i>			
471.		<i>Lutjanus quinquelineatus</i>			
472.		<i>Lutjanus russellii</i>			
473.		<i>Lutjanus</i> sp.			
474.	24129	<i>Macropus agilis</i> (Agile Wallaby)			
475.	25489	<i>Macropus robustus</i> (Euro, Biggada)			
476.	24326	<i>Malacorhynchus membranaceus</i> (Pink-eared Duck)			
477.	25651	<i>Malurus lamberti</i> (Variegated Fairy-wren)			
478.	24544	<i>Malurus lamberti</i> subsp. <i>assimilis</i> (Variegated Fairy-wren)			
479.	25653	<i>Malurus melanocephalus</i> (Red-backed Fairy-wren)			
480.	24550	<i>Malurus melanocephalus</i> subsp. <i>cruentatus</i> (Red-backed Fairy-wren)			
481.	24583	<i>Manorina flavigula</i> (Yellow-throated Miner)			
482.		<i>Marilyna meraukensis</i>			
483.		<i>Megalops cyprinoides</i>			
484.	25758	<i>Megalurus gramineus</i> (Little Grassbird)			
485.	25759	<i>Megalurus timoriensis</i> (Tawny Grassbird)			
486.	47997	<i>Melanodryas cucullata</i> (Hooded Robin)			
487.		<i>Melanotaenia</i> sp.			
488.	24585	<i>Melithreptus albogularis</i> (White-throated Honeyeater)			
489.	25665	<i>Melithreptus gularis</i> (Black-chinned Honeyeater)			
490.	24736	<i>Melopsittacus undulatus</i> (Budgerigar)			
491.	25184	<i>Menetia greyii</i>			
492.	25185	<i>Menetia maini</i>			
493.	24598	<i>Merops ornatus</i> (Rainbow Bee-eater)			
494.		<i>Microcarbo melanoleucos</i>			
495.	25693	<i>Microeca fascinans</i> (Jacky Winter)			
496.	25694	<i>Microeca flavigaster</i> (Lemon-breasted Flycatcher)			
497.	24657	<i>Microeca flavigaster</i> subsp. <i>tormenti</i> (Kimberley Flycatcher)			
498.		<i>Micrognathus micronotopterus</i>			
499.	25542	<i>Milvus migrans</i> (Black Kite)			
500.	24298	<i>Milvus migrans</i> subsp. <i>affinis</i> (Black Kite)			
501.	24190	<i>Miniopterus schreibersii</i> subsp. <i>orianae</i> (Northern Bentwing-bat)			
502.	25545	<i>Mirafra javanica</i> (Horsfield's Bushlark, Singing Bushlark)			
503.	24302	<i>Mirafra javanica</i> subsp. <i>horsfieldii</i> (Horsfield's Bushlark, Singing Bushlark)			
504.		<i>Missulena occatoria</i>			
505.		<i>Mopsus mormon</i>			
506.	25194	<i>Morethia ruficauda</i> subsp. <i>ruficauda</i>			
507.	25195	<i>Morethia storri</i>			
508.	24183	<i>Mormopterus loriae</i> (Little Northern Freetail-bat)			
509.	25671	<i>Motacilla alba</i> (White Wagtail)			
510.		<i>Mugil cephalus</i>			
511.		<i>Mugil</i> sp.			
512.	24223	<i>Mus musculus</i> (House Mouse)	Y		
513.	25610	<i>Myiagra inquieta</i> (Restless Flycatcher)			
514.	24448	<i>Myiagra inquieta</i> subsp. <i>nana</i> (Restless Flycatcher)			
515.	25611	<i>Myiagra rubecula</i> (Leaden Flycatcher)			
516.	25612	<i>Myiagra ruficollis</i> (Broad-billed Flycatcher)			
517.	24450	<i>Myiagra ruficollis</i> subsp. <i>mimikae</i> (Broad-billed Flycatcher)			
518.	25666	<i>Myzomela erythrocephala</i> (Red-headed Honeyeater)			
519.	24590	<i>Myzomela erythrocephala</i> subsp. <i>erythrocephala</i> (Red-headed Honeyeater)			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
520.	<i>Naso</i> sp.			
521.	<i>Nematalosa come</i>			
522.	<i>Nematalosa</i> sp.			
523.	<i>Nematalosa vlaminghi</i>			
524.	25684 <i>Neochmia phaeton</i> (Crimson Finch)			
525.	25685 <i>Neochmia ruficauda</i> (Star Finch)			
526.	24639 <i>Neochmia ruficauda</i> subsp. <i>clarescens</i> (Star Finch)			
527.	<i>Neoscona theisii</i>			
528.	<i>Neosilurus hyrtlii</i>			
529.	<i>Nephila edulis</i>			
530.	24327 <i>Nettapus pulchellus</i> (Green Pygmy-goose)			
531.	<i>Netuma proxima</i>			
532.	<i>Nibea microgenys</i>			Y
533.	48017 <i>Ninox boobook</i> subsp. <i>boobook</i> (Southern Boobook)			
534.	25747 <i>Ninox connivens</i> (Barking Owl)			
535.	25430 <i>Notaden nichollsi</i> (Desert Spadefoot)			
536.	<i>Notograptes guttatus</i>			
537.	<i>Numenius minatus</i>			Y
538.	25564 <i>Nycticorax caledonicus</i> (Rufous Night Heron)			
539.	48026 <i>Nycticorax caledonicus</i> subsp. <i>australasiae</i> (Rufous Night Heron)			
540.	24192 <i>Nyctophilus arnhemensis</i> (Arnhem Land Long-eared Bat)			
541.	24194 <i>Nyctophilus geoffroyi</i> (Lesser Long-eared Bat)			
542.	24742 <i>Nymphicus hollandicus</i> (Cockatiel)			
543.	24407 <i>Ocyphaps lophotes</i> (Crested Pigeon)			
544.	<i>Oecobius marathaus</i>			
545.	<i>Omobranchus ferox</i>			
546.	<i>Omobranchus lineolatus</i>			
547.	<i>Omobranchus rotundiceps</i>			
548.	<i>Omobranchus verticalis</i>			Y
549.	<i>Onuxodon margaritiferae</i>			
550.	24138 <i>Onychogalea unguifera</i> (Northern Nailtail Wallaby, Karrabul)			
551.	<i>Ophichthus rutidoderma</i>			
552.	<i>Ophieleotris aporos</i>			
553.	<i>Opistognathus darwiniensis</i>			
554.	<i>Opistognathus inornatus</i>			
555.	<i>Opistognathus reticulatus</i>			
556.	<i>Orcaella brevirostris</i>			
557.	<i>Orectolobus wardi</i>			
558.	34011 <i>Oreoica gutturalis</i> subsp. <i>gutturalis</i> (Crested Bellbird (southern))			
559.	24608 <i>Oriolus sagittatus</i> (Olive-backed Oriole)			
560.	<i>Ostracion rhinorhynchus</i>			Y
561.	<i>Oxyeleotris</i> sp.			
562.	24620 <i>Pachycephala lanioides</i> (White-breasted Whistler)			
563.	25678 <i>Pachycephala melanura</i> (Mangrove Golden Whistler)			
564.	24621 <i>Pachycephala melanura</i> subsp. <i>melanura</i> (Mangrove Golden Whistler)			
565.	25680 <i>Pachycephala rufiventris</i> (Rufous Whistler)			
566.	24624 <i>Pachycephala rufiventris</i> subsp. <i>rufiventris</i> (Rufous Whistler)			
567.	<i>Pantolabus radiatus</i>			
568.	<i>Parablennius tasmanianus</i>			
569.	<i>Paradiplogrammus enneactis</i>			
570.	<i>Paraplagusia sinerama</i>			
571.	<i>Paraploactis pulvinus</i>			
572.	<i>Paraplotosus albilabris</i>			
573.	<i>Paraplotosus butleri</i>			
574.	<i>Paraplotosus muelleri</i> ?			Y
575.	<i>Parasclopsis</i> sp.			
576.	<i>Parascorpaena picta</i>			
577.	<i>Pardachirus pavoninus</i>			
578.	24627 <i>Pardalotus rubricatus</i> (Red-browed Pardalote)			
579.	25682 <i>Pardalotus striatus</i> (Striated Pardalote)			
580.	24629 <i>Pardalotus striatus</i> subsp. <i>uropygialis</i> (Striated Pardalote)			
581.	<i>Parupeneus indicus</i>			
582.	24642 <i>Passer montanus</i> (Eurasian Tree Sparrow)	Y		
583.	24674 <i>Pavo cristatus</i> (Common Peafowl, Indian Peafowl)	Y		
584.	24649 <i>Pelecanoides urinatrix</i> subsp. <i>exsul</i> (Common Diving Petrel)			
585.	24648 <i>Pelecanus conspicillatus</i> (Australian Pelican)			
586.	<i>Pempheris ypsilychnus</i>			
587.	<i>Pentapodus emeryii</i>			
588.	<i>Pentapodus porosus</i>			
589.	<i>Periophthalmus argentilineatus</i>			

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590.	<i>Periophthalmus koelreuteri</i>			
591.	48060 <i>Petrochelidon ariel</i> (Fairy Martin)			
592.	48061 <i>Petrochelidon nigricans</i> (Tree Martin)			
593.	24659 <i>Petroica goodenovii</i> (Red-capped Robin)			
594.	25697 <i>Phalacrocorax carbo</i> (Great Cormorant)			
595.	24667 <i>Phalacrocorax sulcirostris</i> (Little Black Cormorant)			
596.	25699 <i>Phalacrocorax varius</i> (Pied Cormorant)			
597.	24409 <i>Phaps chalcoptera</i> (Common Bronzewing)			
598.	24411 <i>Phaps histrionica</i> (Flock Bronzewing, Flock Pigeon)			
599.	25667 <i>Philemon argenteiceps</i> (Silver-crowned Friarbird)			
600.	25668 <i>Philemon citreogularis</i> (Little Friarbird)			
601.	24592 <i>Philemon citreogularis</i> subsp. <i>citreogularis</i> (Little Friarbird)			
602.	<i>Philemon</i> sp.			Y
603.	24198 <i>Pipistrellus westralis</i> (Northern Pipistrelle)			
604.	<i>Pisodonophis cancrivorus</i>			
605.	24677 <i>Pitta moluccensis</i> (Blue-winged Pitta)			
606.	24101 <i>Planigale ingrami</i> (Long-tailed Planigale)			
607.	24102 <i>Planigale maculata</i> (Common Planigale)			
608.	24841 <i>Platalea flavipes</i> (Yellow-billed Spoonbill)			
609.	24842 <i>Platalea regia</i> (Royal Spoonbill)			
610.	<i>Platybelone argalus</i>			
611.	<i>Platycephalus</i> sp.			
612.	42305 <i>Platyplectrum ornatum</i> (Ornate Burrowing Frog)			
613.	<i>Plectorhinchus unicolor</i> ?			Y
614.	<i>Plotosus lineatus</i>			
615.	25703 <i>Podargus strigoides</i> (Tawny Frogmouth)			
616.	24678 <i>Podargus strigoides</i> subsp. <i>phalaenoides</i> (Tawny Frogmouth)			
617.	25704 <i>Podiceps cristatus</i> (Great Crested Grebe)			
618.	24643 <i>Poephila acuticauda</i> (Long-tailed Finch)			
619.	25510 <i>Pogona minor</i> (Dwarf Bearded Dragon)			
620.	24908 <i>Pogona minor</i> subsp. <i>mitchelli</i> (Dwarf Bearded Dragon)			
621.	24681 <i>Poliocephalus poliocephalus</i> (Hoary-headed Grebe)			
622.	<i>Polydactylus macrochir</i>			Y
623.	<i>Polydactylus multiradiatus</i>			
624.	<i>Pomacentrus milleri</i>			
625.	<i>Pomadasys argenteus</i>			
626.	25706 <i>Pomatostomus temporalis</i> (Grey-crowned Babbler)			
627.	24684 <i>Pomatostomus temporalis</i> subsp. <i>rubeculus</i> (Grey-crowned Babbler)			
628.	25731 <i>Porphyrio porphyrio</i> (Purple Swamphen)			
629.	24766 <i>Porphyrio porphyrio</i> subsp. <i>melanotus</i> (Purple Swamphen)			
630.	24769 <i>Porzana fluminea</i> (Australian Spotted Crane)			
631.	25732 <i>Porzana pusilla</i> (Baillon's Crane)			
632.	24771 <i>Porzana tabuensis</i> (Spotless Crane)			
633.	<i>Priolepis nuchifasciata</i>			
634.	<i>Prionobutis microps</i>			
635.	<i>Pristis</i> sp.			Y
636.	25200 <i>Proablepharus tenuis</i>			
637.	<i>Psammoperca waigiensis</i>			
638.	25261 <i>Pseudechis australis</i> (Mulga Snake)			
639.	<i>Pseudochromis fuscus</i>			
640.	<i>Pseudochromis</i> sp.			
641.	<i>Pseudochromis wilsoni</i>			
642.	<i>Pseudogobius</i> sp.			
643.	<i>Pseudomugil cyanodorsalis</i>			
644.	24234 <i>Pseudomys delicatulus</i> (Delicate Mouse)			
645.	24239 <i>Pseudomys nanus</i> (Western Chestnut Mouse)			
646.	42416 <i>Pseudonaja mengdeni</i> (Western Brown Snake)			
647.	24063 <i>Pseudorca crassidens</i> (False Killer Whale)			
648.	<i>Pseudorhombus</i> sp.			
649.	<i>Psittuteutes versicolor</i>			
650.	<i>Pterois antennata</i>			
651.	<i>Pterois</i> sp.			
652.	24172 <i>Pteropus alecto</i> (Black Flying-fox)			
653.	24173 <i>Pteropus scapulatus</i> (Little Red Flying-fox)			
654.	30946 <i>Ptilinopus regina</i> subsp. <i>ewingii</i> (Rose-crowned Fruit-dove)			
655.	25725 <i>Ptilonorhynchus nuchalis</i> (Great Bowerbird)			
656.	24758 <i>Ptilonorhynchus nuchalis</i> subsp. <i>nuchalis</i> (Great Bowerbird)			
657.	42322 <i>Ptilotula flavescens</i> subsp. <i>flavescens</i> (Yellow-tinted Honeyeater)			
658.	42344 <i>Purnella albifrons</i> (White-fronted Honeyeater)			
659.	25009 <i>Pygopus nigriceps</i>			

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660.	24772	<i>Rallina fasciata</i> (Red-legged Crane)			Y
661.		<i>Rallina fasciata</i>			Y
662.	24245	<i>Rattus rattus</i> (Black Rat)	Y		
663.	24776	<i>Recurvirostra novaehollandiae</i> (Red-necked Avocet)			
664.		<i>Remora remora</i>			
665.		<i>Rhina ancylostoma</i>			Y
666.		<i>Rhinobatos</i> sp.			
667.	48096	<i>Rhipidura albiscapa</i> (Grey Fantail)			
668.	25614	<i>Rhipidura leucophrys</i> (Willie Wagtail)			
669.	24457	<i>Rhipidura phasiana</i> (Mangrove Grey Fantail)			
670.	25616	<i>Rhipidura rufiventris</i> (Northern Fantail)			
671.		<i>Rhizoprionodon acutus</i>			
672.	24982	<i>Rhynchoedura ornata</i> (Western Beaked Gecko)			
673.	24174	<i>Saccolaimus flaviventris</i> (Yellow-bellied Sheath-tailed Bat)			
674.		<i>Salarias sexfilum</i>			
675.		<i>Salarias sexfilum?</i>			Y
676.		<i>Sargocentron rubrum</i>			
677.		<i>Scaevius milii</i>			
678.		<i>Scartelaos histophorus</i>			
679.		<i>Scarus ghobban</i>			
680.		<i>Scolecenchelys macroptera</i>			
681.		<i>Scolopendra morsitans</i>			
682.		<i>Scolopsis monogramma</i>			
683.		<i>Scolopsis monogramma?</i>			Y
684.		<i>Scolopsis</i> sp.			
685.		<i>Scomberoides commersonnianus</i>			
686.		<i>Scomberoides lysan</i>			
687.		<i>Scomberoides</i> sp.			Y
688.		<i>Scomberomorus semifasciatus</i>			
689.		<i>Scomberomorus</i> sp.			
690.	24200	<i>Scotorepens greyii</i> (Little Broad-nosed Bat)			
691.	24201	<i>Scotorepens sanborni</i> (Northern Broad-nosed Bat)			
692.	25605	<i>Scythrops novaehollandiae</i> (Channel-billed Cuckoo)			
693.		<i>Selaroides leptolepis</i>			
694.		<i>Selenotoca multifasciata</i>			
695.		<i>Siganus</i> sp.			
696.		<i>Sillago analis</i>			
697.		<i>Sillago burrus</i>			
698.		<i>Sillago sihama</i>			
699.		<i>Sillago sihama?</i>			Y
700.	30948	<i>Smicrornis brevirostris</i> (Weebill)			
701.		<i>Sphyraena putnamae</i>			Y
702.		<i>Spratelloides delicatulus</i>			
703.	24521	<i>Sterna bengalensis</i> (Lesser Crested Tern)			
704.	24522	<i>Sterna bergii</i> (Crested Tern)			
705.	24525	<i>Sterna fuscata</i> subsp. <i>nubilosa</i> (Sooty Tern)			
706.	25643	<i>Sterna hybrida</i> (Whiskered Tern)			
707.	24528	<i>Sterna hybrida</i> subsp. <i>javanica</i> (Whiskered Tern)			
708.	48594	<i>Sternula nereis</i> (Fairy Tern)			
709.	24329	<i>Stictonetta naevosa</i> (Freckled Duck)			
710.	24482	<i>Stiltia isabella</i> (Australian Pratincole)			
711.	42348	<i>Stomiopera unicolor</i> subsp. <i>unicolor</i> (White-gaped Honeyeater)			
712.		<i>Strongylura</i> sp.			Y
713.		<i>Strongylura strongylura</i>			
714.	25517	<i>Strophurus ciliaris</i>			
715.	24924	<i>Strophurus ciliaris</i> subsp. <i>aberrans</i>			
716.	24925	<i>Strophurus ciliaris</i> subsp. <i>ciliaris</i>			
717.	25752	<i>Sturnus vulgaris</i> (Common Starling)	Y		
718.	25307	<i>Suta punctata</i> (Spotted Snake)			
719.		<i>Synanceia horrida</i>			
720.		<i>Synodus jaculum</i>			
721.	25705	<i>Tachybaptus novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
722.	24682	<i>Tachybaptus novaehollandiae</i> subsp. <i>novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
723.	48123	<i>Tachybaptus ruficollis</i> (Little Grebe, Red-throated Little Grebe)			
724.	24207	<i>Tachyglossus aculeatus</i> (Short-beaked Echidna)			
725.	25552	<i>Tadorna radjah</i> (Radjah Shelduck)			
726.	24331	<i>Tadorna tadornoides</i> (Australian Shelduck, Mountain Duck)			
727.	30872	<i>Taeniopygia bichenovii</i> (Double-barred Finch)			
728.	30873	<i>Taeniopygia bichenovii</i> subsp. <i>annulosa</i> (Double-barred Finch)			

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729.	30870 <i>Taeniopygia guttata</i> (Zebra Finch)			
730.	30871 <i>Taeniopygia guttata subsp. castanotis</i> (Zebra Finch)			
731.	<i>Taeniura lymma</i>			
732.	<i>Terapon jarbua</i>			
733.	<i>Terapon puta</i>			
734.	<i>Terapon sp.</i>			
735.	<i>Terapon theraps</i>			
736.	<i>Thalasseus bengalensis</i>			
737.	<i>Thereuopoda lesueurii</i>			
738.	24845 <i>Threskiornis spinicollis</i> (Straw-necked Ibis)			
739.	<i>Thryssa aestuaria</i>			
740.	25202 <i>Tiliqua multifasciata</i> (Central Blue-tongue)			
741.	25520 <i>Tiliqua scincoides</i> (Eastern Blue-tongue)			
742.	25208 <i>Tiliqua scincoides subsp. intermedia</i>			
743.	25548 <i>Todiramphus chloris</i> (Collared Kingfisher)			
744.	42351 <i>Todiramphus pyrrhopygus</i> (Red-backed Kingfisher)			
745.	25549 <i>Todiramphus sanctus</i> (Sacred Kingfisher)			
746.	24309 <i>Todiramphus sanctus subsp. sanctus</i> (Sacred Kingfisher)			
747.	<i>Toxotes chatareus</i>			
748.	<i>Trachinocephalus myops</i>			
749.	<i>Tragulichthys jaculiferus</i>			
750.	48141 <i>Tribonyx ventralis</i> (Black-tailed Native-hen)			
751.	<i>Trichiurus lepturus</i>			
752.	25723 <i>Trichoglossus haematodus</i> (Rainbow Lorikeet)			
753.	24754 <i>Trichoglossus haematodus subsp. rubritorquis</i> (Red-collared Lorikeet)			
754.	<i>Trichonotus setiger</i>			
755.	34149 <i>Turnix castanota</i> (Chestnut-backed Button-quail)			
756.	48145 <i>Turnix maculosus</i> (Red-backed Button-quail)			
757.	24848 <i>Turnix pyrrhotorax</i> (Red-chested Button-quail)			
758.	24851 <i>Turnix velox</i> (Little Button-quail)			
759.	30954 <i>Tursiops aduncus</i> (Indo-Pacific Bottlenose Dolphin)			
760.	24069 <i>Tursiops truncatus</i> (Bottlenose Dolphin)			
761.	24852 <i>Tyto alba subsp. delicatula</i> (Barn Owl)			
762.	34015 <i>Tyto longimembris</i> (Eastern Grass Owl)			
763.	<i>Upeneus sp.</i>			
764.	25436 <i>Uperoleia aspera</i> (Derby Toadlet)			
765.	25446 <i>Uperoleia talpa</i> (Ratcheting Toadlet)			
766.	<i>Urodacus granifrons</i>			Y
767.	<i>Urodacus hoplurus</i>			
768.	<i>Urodacus koolanensis</i>			
769.	<i>Urodacus yaschenkoi</i>			
770.	<i>Urogymnus asperrimus</i>			Y
771.	<i>Valamugil cunnesius</i>			
772.	<i>Valamugil sp.</i>			Y
773.	<i>Valenciennaea alleni?</i>			Y
774.	25577 <i>Vanellus miles</i> (Masked Lapwing)			
775.	24384 <i>Vanellus miles subsp. miles</i> (Masked Lapwing)			
776.	24386 <i>Vanellus tricolor</i> (Banded Lapwing)			
777.	25209 <i>Varanus acanthurus</i> (Spiny-tailed Monitor)			
778.	25218 <i>Varanus gouldii</i> (Bungarra or Sand Monitor)			
779.	25222 <i>Varanus panoptes subsp. panoptes</i>			
780.	25526 <i>Varanus tristis</i> (Racehorse Monitor)			
781.	25227 <i>Varanus tristis subsp. tristis</i> (Racehorse Monitor)			
782.	25765 <i>Zosterops lateralis</i> (Grey-breasted White-eye, Silvereye)			
783.	24857 <i>Zosterops luteus</i> (Yellow White-eye)			

Conservation Codes

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

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



EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected. Please see the caveat for interpretation of information provided here.

Report created: 23-Dec-2021

[Summary](#)

[Details](#)

[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)

Summary

Matters of National Environment Significance

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

World Heritage Properties:	None
National Heritage Places:	1
Wetlands of International Importance (Ramsar)	1
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	1
Listed Threatened Species:	34
Listed Migratory Species:	66

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

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

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

Commonwealth Lands:	46
Commonwealth Heritage Places:	None
Listed Marine Species:	104
Whales and Other Cetaceans:	12
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None
Habitat Critical to the Survival of Marine Turtles:	1

Extra Information

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

State and Territory Reserves:	13
Regional Forest Agreements:	None
Nationally Important Wetlands:	3
EPBC Act Referrals:	11
Key Ecological Features (Marine):	None
Biologically Important Areas:	23
Bioregional Assessments:	None
Geological and Bioregional Assessments:	None

Details

Matters of National Environmental Significance

National Heritage Places			[Resource Information]
Name	State	Legal Status	Buffer Status
Natural			
The West Kimberley	WA	Listed place	In buffer area only

Wetlands of International Importance (Ramsar Wetlands)		[Resource Information]
Ramsar Site Name	Proximity	Buffer Status
Roebuck bay	Within Ramsar site	In feature area

Listed Threatened Ecological Communities

[Resource Information]

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

Status of Vulnerable, Disallowed and Ineligible are not MNES under the EPBC Act.

Community Name	Threatened Category	Presence Text	Buffer Status
Monsoon vine thickets on the coastal sand dunes of Dampier Peninsula	Endangered	Community likely to occur within area	In buffer area only

Listed Threatened Species		[Resource Information]	
Status of Conservation Dependent and Extinct are not MNES under the EPBC Act. Number is the current name ID.			
Scientific Name	Threatened Category	Presence Text	Buffer Status
BIRD			
Calidris canutus			
Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area	In buffer area only
Calidris ferruginea			
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Calidris tenuirostris			
Great Knot [862]	Critically Endangered	Roosting known to occur within area	In buffer area only
Charadrius leschenaultii			
Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area	In buffer area only
Erythrura gouldiae Gouldian Finch [413]	Endangered	Species or species habitat may occur within area	In feature area
Falco hypoleucos Grey Falcon [929]	Vulnerable	Species or species habitat known to occur within area	In feature area
Limosa lapponica menzbieri Northern Siberian Bar-tailed Godwit, Russkoye Bar-tailed Godwit [86432]	Critically Endangered	Species or species habitat known to occur within area	In buffer area only
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Papasula abbotti Abbott's Booby [59297]	Endangered	Species or species habitat may occur within area	In buffer area only
Polytelis alexandrae Princess Parrot, Alexandra's Parrot [758]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat known to occur within area	In feature area
Tyto novaehollandiae kimberli Masked Owl (northern) [26048]	Vulnerable	Species or species habitat may occur within area	In feature area
FISH			
Thunnus maccoyii Southern Bluefin Tuna [69402]	Conservation Dependent	Species or species habitat likely to occur within area	In buffer area only
MAMMAL			
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Macrotis lagotis Greater Bilby [282]	Vulnerable	Species or species habitat known to occur within area	In feature area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Saccolaimus saccolaimus nudicluniatu Bare-rumped Sheath-tailed Bat, Bare-rumped Sheathtail Bat [66889]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Trichosurus vulpecula arnhemensis Northern Brushtail Possum [83091]	Vulnerable	Species or species habitat known to occur within area	In feature area
Xeromys myoides Water Mouse, False Water Rat, Yirrkoo [66]	Vulnerable	Species or species habitat may occur within area	In buffer area only
PLANT			
Seringia exastia Fringed Fire-bush [88920]	Critically Endangered	Species or species habitat known to occur within area	In buffer area only
REPTILE			
Aipysurus apraefrontalis Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat likely to occur within area	In buffer area only
Aipysurus foliosquama Leaf-scaled Seasnake [1118]	Critically Endangered	Species or species habitat may occur within area	In buffer area only
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area	In buffer area only
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding likely to occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area	In buffer area only

SHARK			
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Pristis clavata Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Pristis pristis Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Breeding known to occur within area	In buffer area only
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Sphyrna lewini Scalloped Hammerhead [85267]	Conservation Dependent	Species or species habitat likely to occur within area	In buffer area only

Listed Migratory Species		[Resource Information]	
Scientific Name	Threatened Category	Presence Text	Buffer Status
Migratory Marine Birds			
Anous stolidus Common Noddy [825]		Species or species habitat likely to occur within area	In buffer area only
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area	In feature area
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat known to occur within area	In buffer area only
Fregata minor Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat known to occur within area	In buffer area only
Sternula albifrons Little Tern [82849]		Breeding known to occur within area	In buffer area only
Migratory Marine Species			
Anoxypristis cuspidata Narrow Sawfish, Knifetooth Sawfish [68448]		Species or species habitat likely to occur within area	In buffer area only
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area	In buffer area only
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Carcharhinus longimanus Oceanic Whitetip Shark [84108]		Species or species habitat may occur within area	In buffer area only
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area	In buffer area only
Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area	In buffer area only
Dugong dugon Dugong [28]		Foraging, feeding or related behaviour known to occur within area	In buffer area only
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding likely to occur within area	In buffer area only
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Mobula alfredi as Manta alfredi Reef Manta Ray, Coastal Manta Ray [90033]		Species or species habitat may occur within area	In buffer area only
Mobula birostris as Manta birostris Giant Manta Ray [90034]		Species or species habitat may occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area	In buffer area only
Orcaella heinsohni Australian Snubfin Dolphin [81322]		Species or species habitat known to occur within area	In buffer area only
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area	In buffer area only
Pristis clavata Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Pristis pristis Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Breeding known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Sousa sahalensis as Sousa chinensis Australian Humpback Dolphin [87942]		Breeding known to occur within area	In buffer area only
Tursiops aduncus (Arafura/Timor Sea populations) Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat known to occur within area	In buffer area only
Migratory Terrestrial Species			
Cecropis daurica Red-rumped Swallow [80610]		Species or species habitat known to occur within area	In feature area
Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat known to occur within area	In feature area
Hirundo rustica Barn Swallow [662]		Species or species habitat known to occur within area	In feature area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat known to occur within area	In feature area
Motacilla flava Yellow Wagtail [644]		Species or species habitat known to occur within area	In feature area
Migratory Wetlands Species			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Arenaria interpres Ruddy Turnstone [872]		Roosting known to occur within area	In buffer area only
Calidris acuminata Sharp-tailed Sandpiper [874]		Roosting known to occur within area	In feature area
Calidris alba Sanderling [875]		Roosting known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area	In buffer area only
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat known to occur within area	In feature area
Calidris ruficollis Red-necked Stint [860]		Roosting known to occur within area	In buffer area only
Calidris tenuirostris Great Knot [862]	Critically Endangered	Roosting known to occur within area	In buffer area only
Charadrius bicinctus Double-banded Plover [895]		Roosting known to occur within area	In buffer area only
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area	In buffer area only
Charadrius veredus Oriental Plover, Oriental Dotterel [882]		Roosting known to occur within area	In feature area
Gallinago megala Swinhoe's Snipe [864]		Roosting likely to occur within area	In buffer area only
Gallinago stenura Pin-tailed Snipe [841]		Roosting likely to occur within area	In buffer area only
Glareola maldivarum Oriental Pratincole [840]		Roosting known to occur within area	In feature area
Limicola falcinellus Broad-billed Sandpiper [842]		Roosting known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Limnodromus semipalmatus Asian Dowitcher [843]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area	In buffer area only
Limosa limosa Black-tailed Godwit [845]		Roosting known to occur within area	In buffer area only
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]		Species or species habitat known to occur within area	In feature area
Numenius minutus Little Curlew, Little Whimbrel [848]		Roosting known to occur within area	In buffer area only
Numenius phaeopus Whimbrel [849]		Roosting known to occur within area	In buffer area only
Pandion haliaetus Osprey [952]		Breeding known to occur within area	In buffer area only
Pluvialis fulva Pacific Golden Plover [25545]		Roosting known to occur within area	In buffer area only
Pluvialis squatarola Grey Plover [865]		Roosting known to occur within area	In buffer area only
Tringa brevipes Grey-tailed Tattler [851]		Roosting known to occur within area	In buffer area only
Tringa glareola Wood Sandpiper [829]		Roosting known to occur within area	In buffer area only
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area	In feature area
Tringa stagnatilis Marsh Sandpiper, Little Greenshank [833]		Roosting known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Tringa totanus			
Common Redshank, Redshank [835]		Roosting known to occur within area	In buffer area only
Xenus cinereus			
Terek Sandpiper [59300]		Roosting known to occur within area	In buffer area only

Other Matters Protected by the EPBC Act

Commonwealth Lands

[[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.

Commonwealth Land Name	State	Buffer Status
Defence		
Defence - BROOME TRAINING DEPOT [50141]	WA	In buffer area only
Unknown		
Commonwealth Land - [51812]	WA	In buffer area only
Commonwealth Land - [51813]	WA	In buffer area only
Commonwealth Land - [51810]	WA	In buffer area only
Commonwealth Land - [51811]	WA	In buffer area only
Commonwealth Land - [51816]	WA	In buffer area only
Commonwealth Land - [51817]	WA	In buffer area only
Commonwealth Land - [51815]	WA	In buffer area only
Commonwealth Land - [51814]	WA	In buffer area only
Commonwealth Land - [51819]	WA	In buffer area only
Commonwealth Land - [51818]	WA	In buffer area only
Commonwealth Land - [51074]	WA	In buffer area only
Commonwealth Land - [51077]	WA	In buffer area only
Commonwealth Land - [51966]	WA	In buffer area only
Commonwealth Land - [51075]	WA	In buffer area only
Commonwealth Land - [51076]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [51069]	WA	In buffer area only
Commonwealth Land - [51965]	WA	In buffer area only
Commonwealth Land - [51072]	WA	In buffer area only
Commonwealth Land - [51071]	WA	In buffer area only
Commonwealth Land - [51082]	WA	In buffer area only
Commonwealth Land - [51824]	WA	In buffer area only
Commonwealth Land - [51805]	WA	In buffer area only
Commonwealth Land - [51804]	WA	In buffer area only
Commonwealth Land - [51807]	WA	In buffer area only
Commonwealth Land - [51079]	WA	In buffer area only
Commonwealth Land - [51078]	WA	In buffer area only
Commonwealth Land - [51803]	WA	In buffer area only
Commonwealth Land - [51806]	WA	In buffer area only
Commonwealth Land - [51808]	WA	In buffer area only
Commonwealth Land - [51809]	WA	In buffer area only
Commonwealth Land - [51825]	WA	In buffer area only
Commonwealth Land - [51826]	WA	In buffer area only
Commonwealth Land - [51820]	WA	In buffer area only
Commonwealth Land - [51821]	WA	In buffer area only
Commonwealth Land - [51822]	WA	In buffer area only
Commonwealth Land - [51823]	WA	In buffer area only
Commonwealth Land - [51431]	WA	In buffer area only
Commonwealth Land - [51067]	WA	In buffer area only
Commonwealth Land - [51068]	WA	In buffer area only
Commonwealth Land - [51080]	WA	In buffer area only
Commonwealth Land - [51081]	WA	In buffer area only
Commonwealth Land - [51083]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [51070]	WA	In buffer area only
Commonwealth Land - [51088]	WA	In buffer area only
Commonwealth Land - [51073]	WA	In buffer area only

Listed Marine Species			[Resource Information]
Scientific Name	Threatened Category	Presence Text	Buffer Status
Bird			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Anous stolidus Common Noddy [825]		Species or species habitat likely to occur within area	In buffer area only
Anseranas semipalmata Magpie Goose [978]		Species or species habitat may occur within area overfly marine area	In feature area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area	In feature area
Arenaria interpres Ruddy Turnstone [872]		Roosting known to occur within area	In buffer area only
Bubulcus ibis as Ardea ibis Cattle Egret [66521]		Species or species habitat may occur within area overfly marine area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]		Roosting known to occur within area	In feature area
Calidris alba Sanderling [875]		Roosting known to occur within area	In buffer area only
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area overfly marine area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area overfly marine area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat known to occur within area overfly marine area	In feature area
Calidris ruficollis Red-necked Stint [860]		Roosting known to occur within area overfly marine area	In buffer area only
Calidris tenuirostris Great Knot [862]	Critically Endangered	Roosting known to occur within area overfly marine area	In buffer area only
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat known to occur within area	In buffer area only
Cecropis daurica as Hirundo daurica Red-rumped Swallow [80610]		Species or species habitat known to occur within area overfly marine area	In feature area
Chalcites osculans as Chrysococcyx osculans Black-eared Cuckoo [83425]	Vulnerable	Species or species habitat known to occur within area overfly marine area	In feature area
Charadrius bicinctus Double-banded Plover [895]		Roosting known to occur within area overfly marine area	In buffer area only
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]		Species or species habitat known to occur within area	In feature area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area	In buffer area only
Charadrius ruficapillus Red-capped Plover [881]		Roosting known to occur within area overfly marine area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Charadrius veredus Oriental Plover, Oriental Dotterel [882]		Roosting known to occur within area overfly marine area	In feature area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat known to occur within area	In buffer area only
Fregata minor Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat known to occur within area	In buffer area only
Gallinago megala Swinhoe's Snipe [864]		Roosting likely to occur within area overfly marine area	In buffer area only
Gallinago stenura Pin-tailed Snipe [841]		Roosting likely to occur within area overfly marine area	In buffer area only
Glareola maldivarum Oriental Pratincole [840]		Roosting known to occur within area overfly marine area	In feature area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area	In feature area
Himantopus himantopus Pied Stilt, Black-winged Stilt [870]		Roosting known to occur within area overfly marine area	In buffer area only
Hirundo rustica Barn Swallow [662]		Species or species habitat known to occur within area overfly marine area	In feature area
Limicola falcinellus Broad-billed Sandpiper [842]		Roosting known to occur within area overfly marine area	In buffer area only
Limnodromus semipalmatus Asian Dowitcher [843]		Species or species habitat known to occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Limosa lapponica Bar-tailed Godwit [844]	Critically Endangered	Species or species habitat known to occur within area	In buffer area only
Limosa limosa Black-tailed Godwit [845]		Roosting known to occur within area overfly marine area	In buffer area only
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area	In feature area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat known to occur within area overfly marine area	In feature area
Motacilla flava Yellow Wagtail [644]		Species or species habitat known to occur within area overfly marine area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Numenius minutus Little Curlew, Little Whimbrel [848]		Roosting known to occur within area overfly marine area	In buffer area only
Numenius phaeopus Whimbrel [849]		Roosting known to occur within area	In buffer area only
Pandion haliaetus Osprey [952]	Endangered	Breeding known to occur within area	In buffer area only
Papasula abbotti Abbott's Booby [59297]		Species or species habitat may occur within area	In buffer area only
Pluvialis fulva Pacific Golden Plover [25545]		Roosting known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Pluvialis squatarola Grey Plover [865]		Roosting known to occur within area overfly marine area	In buffer area only
Recurvirostra novaehollandiae Red-necked Avocet [871]		Roosting known to occur within area overfly marine area	In buffer area only
Rostratula australis as Rostratula benghalensis (sensu lato) Australian Painted Snipe [77037]	Endangered	Species or species habitat known to occur within area overfly marine area	In feature area
Sternula albifrons as Sterna albifrons Little Tern [82849]		Breeding known to occur within area	In buffer area only
Tringa brevipes as Heteroscelus brevipes Grey-tailed Tattler [851]		Roosting known to occur within area	In buffer area only
Tringa glareola Wood Sandpiper [829]		Roosting known to occur within area overfly marine area	In buffer area only
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area overfly marine area	In feature area
Tringa stagnatilis Marsh Sandpiper, Little Greenshank [833]		Roosting known to occur within area overfly marine area	In buffer area only
Tringa totanus Common Redshank, Redshank [835]		Roosting known to occur within area overfly marine area	In buffer area only
Xenus cinereus Terek Sandpiper [59300]		Roosting known to occur within area overfly marine area	In buffer area only
Fish			
Campichthys tricarinatus Three-keel Pipefish [66192]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Choeroichthys brachysoma Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194]		Species or species habitat may occur within area	In buffer area only
Choeroichthys suillus Pig-snouted Pipefish [66198]		Species or species habitat may occur within area	In buffer area only
Corythoichthys flavofasciatus Reticulate Pipefish, Yellow-banded Pipefish, Network Pipefish [66200]		Species or species habitat may occur within area	In buffer area only
Cosmocampus banneri Roughridge Pipefish [66206]		Species or species habitat may occur within area	In buffer area only
Doryrhamphus excisus Bluestripe Pipefish, Indian Blue-stripe Pipefish, Pacific Blue-stripe Pipefish [66211]		Species or species habitat may occur within area	In buffer area only
Doryrhamphus janssi Cleaner Pipefish, Janss' Pipefish [66212]		Species or species habitat may occur within area	In buffer area only
Filicampus tigris Tiger Pipefish [66217]		Species or species habitat may occur within area	In buffer area only
Halicampus brocki Brock's Pipefish [66219]		Species or species habitat may occur within area	In buffer area only
Halicampus grayi Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area	In buffer area only
Halicampus nitidus Glittering Pipefish [66224]		Species or species habitat may occur within area	In buffer area only
Halicampus spinirostris Spiny-snout Pipefish [66225]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Haliichthys taeniophorus Ribboned Pipehorse, Ribboned Seadragon [66226]		Species or species habitat may occur within area	In buffer area only
Hippichthys penicillus Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area	In buffer area only
Hippocampus histrix Spiny Seahorse, Thorny Seahorse [66236]		Species or species habitat may occur within area	In buffer area only
Hippocampus kuda Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within area	In buffer area only
Hippocampus planifrons Flat-face Seahorse [66238]		Species or species habitat may occur within area	In buffer area only
Hippocampus spinosissimus Hedgehog Seahorse [66239]		Species or species habitat may occur within area	In buffer area only
Hippocampus trimaculatus Three-spot Seahorse, Low-crowned Seahorse, Flat-faced Seahorse [66720]		Species or species habitat may occur within area	In buffer area only
Micrognathus micronotopterus Tidepool Pipefish [66255]		Species or species habitat may occur within area	In buffer area only
Solegnathus hardwickii Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area	In buffer area only
Solegnathus lettiensis Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area	In buffer area only
Solenostomus cyanopterus Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Syngnathoides biaculeatus Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area	In buffer area only
Trachyrhamphus bicoarctatus Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area	In buffer area only
Trachyrhamphus longirostris Straightstick Pipefish, Long-nosed Pipefish, Straight Stick Pipefish [66281]		Species or species habitat may occur within area	In buffer area only
Mammal			
Dugong dugon Dugong [28]		Foraging, feeding or related behaviour known to occur within area	In buffer area only
Reptile			
Acalyptophis peronii Horned Seasnake [1114]		Species or species habitat may occur within area	In buffer area only
Aipysurus apraefrontalis Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat likely to occur within area	In buffer area only
Aipysurus duboisii Dubois' Seasnake [1116]		Species or species habitat may occur within area	In buffer area only
Aipysurus eydouxii Spine-tailed Seasnake [1117]		Species or species habitat may occur within area	In buffer area only
Aipysurus foliosquama Leaf-scaled Seasnake [1118]	Critically Endangered	Species or species habitat may occur within area	In buffer area only
Aipysurus laevis Olive Seasnake [1120]		Species or species habitat may occur within area	In buffer area only
Aipysurus tenuis Brown-lined Seasnake [1121]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Astrotia stokesii Stokes' Seasnake [1122]		Species or species habitat may occur within area	In buffer area only
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area	In buffer area only
Chitulia ornata as Hydrophis ornatus Spotted Seasnake, Ornate Reef Seasnake [87377]		Species or species habitat may occur within area	In buffer area only
Crocodylus johnstoni Freshwater Crocodile, Johnston's Crocodile, Johnstone's Crocodile [1773]		Species or species habitat may occur within area	In feature area
Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area	In feature area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area	In buffer area only
Disteira kingii Spectacled Seasnake [1123]		Species or species habitat may occur within area	In buffer area only
Disteira major Olive-headed Seasnake [1124]		Species or species habitat may occur within area	In buffer area only
Emydocephalus annulatus Turtle-headed Seasnake [1125]		Species or species habitat may occur within area	In buffer area only
Ephalophis greyi North-western Mangrove Seasnake [1127]		Species or species habitat may occur within area	In buffer area only
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Hydrelaps darwiniensis Black-ringed Seasnake [1100]		Species or species habitat may occur within area	In buffer area only
Hydrophis elegans Elegant Seasnake [1104]		Species or species habitat may occur within area	In buffer area only
Hydrophis macdowelli as Hydrophis mcdowelli Small-headed Seasnake [75601]		Species or species habitat may occur within area	In buffer area only
Lapemis curtus as Lapemis hardwickii Spine-bellied Seasnake [83554]		Species or species habitat may occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area	In buffer area only
Pelamis platurus Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area	In buffer area only

Whales and Other Cetaceans		[Resource Information]	
Current Scientific Name	Status	Type of Presence	Buffer Status
Mammal			
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area	In buffer area only
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Delphinus delphis Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area	In buffer area only
Grampus griseus Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area	In buffer area only
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area	In buffer area only

Current Scientific Name	Status	Type of Presence	Buffer Status
Orcaella heinsohni as Orcaella brevirostris Australian Snubfin Dolphin [81322]		Species or species habitat known to occur within area	In buffer area only
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area	In buffer area only
Sousa sahalensis as Sousa chinensis Australian Humpback Dolphin [87942]		Breeding known to occur within area	In buffer area only
Stenella attenuata Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area	In buffer area only
Tursiops aduncus Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area	In buffer area only
Tursiops aduncus (Arafura/Timor Sea populations) Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat known to occur within area	In buffer area only
Tursiops truncatus s. str. Bottlenose Dolphin [68417]		Species or species habitat may occur within area	In buffer area only

Habitat Critical to the Survival of Marine Turtles			
Scientific Name	Behaviour	Presence	Buffer Status
Aug - Sep			
Natator depressus Flatback Turtle [59257]	Nesting	Known to occur	In buffer area only

Extra Information

State and Territory Reserves			[Resource Information]
Protected Area Name	Reserve Type	State	Buffer Status
Broome Bird Observatory	5(1)(h) Reserve	WA	In buffer area only
Broome Wildlife Centre	5(1)(h) Reserve	WA	In buffer area only
Unnamed WA51046	5(1)(h) Reserve	WA	In buffer area only
Unnamed WA51105	5(1)(h) Reserve	WA	In buffer area only

Protected Area Name	Reserve Type	State	Buffer Status
Unnamed WA51162	5(1)(h) Reserve	WA	In buffer area only
Unnamed WA51497	5(1)(h) Reserve	WA	In buffer area only
Unnamed WA51583	5(1)(h) Reserve	WA	In buffer area only
Unnamed WA51617	5(1)(h) Reserve	WA	In buffer area only
Unnamed WA51932	5(1)(h) Reserve	WA	In buffer area only
Unnamed WA52354	5(1)(h) Reserve	WA	In buffer area only
Yawuru	Indigenous Protected Area	WA	In feature area
Yawuru	Indigenous Protected Area	WA	In buffer area only
Yawuru Nagulagun / Roebuck Bay	Marine Park	WA	In buffer area only

Nationally Important Wetlands		[Resource Information]	
Wetland Name	State	Buffer Status	
Roebuck Bay	WA	In buffer area only	
Roebuck Plains System	WA	In buffer area only	
Willie Creek Wetlands	WA	In buffer area only	

EPBC Act Referrals				[Resource Information]
Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action				
Broome International Airport Relocation Project	2000/74	Controlled Action	Post-Approval	In buffer area only
Derby Tidal Power Project	2010/5544	Controlled Action	Final PER Or EIS	In feature area
Great Northern Pipeline - 630 km buried gas pipeline	2009/5257	Controlled Action	Completed	In buffer area only
Not controlled action				
Broome Borefield Bushfire Mitigation Program	2020/8680	Not Controlled Action	Completed	In buffer area only
Broome Motorplex Relocation Project, Lot 591 Broome Road	2017/8117	Not Controlled Action	Completed	In buffer area only
Broome Road Industrial Estate	2020/8811	Not Controlled Action	Completed	In buffer area only
Native Orchard Development, 10km northeast of Broome WA	2019/8501	Not Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Power Station Upgrade	2001/357	Not Controlled Action	Completed	In buffer area only
Power Station Upgrade (South Port Site)	2001/414	Not Controlled Action	Completed	In buffer area only
Wastewater Treatment Plant	2008/4545	Not Controlled Action	Completed	In buffer area only
Not controlled action (particular manner)				
Construction of a 43km long sealed access road to the Browse LNG precinct	2011/5852	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only

Biologically Important Areas				
Scientific Name		Behaviour	Presence	Buffer Status
Dolphins				
Orcaella heinsohni				
Australian Snubfin Dolphin [81322]		Breeding	Known to occur	In buffer area only
Orcaella heinsohni				
Australian Snubfin Dolphin [81322]		Calving	Known to occur	In buffer area only
Orcaella heinsohni				
Australian Snubfin Dolphin [81322]		Foraging (high density prey)	Known to occur	In buffer area only
Sousa chinensis				
Indo-Pacific Humpback Dolphin [50]		Breeding	Known to occur	In buffer area only
Sousa chinensis				
Indo-Pacific Humpback Dolphin [50]		Calving	Known to occur	In buffer area only
Sousa chinensis				
Indo-Pacific Humpback Dolphin [50]		Foraging (high density prey)	Known to occur	In buffer area only
Tursiops aduncus				
Indo-Pacific/Spotted Bottlenose Dolphin [68418]		Breeding	Known to occur	In buffer area only
Tursiops aduncus				
Indo-Pacific/Spotted Bottlenose Dolphin [68418]		Calving	Known to occur	In buffer area only

Scientific Name	Behaviour	Presence	Buffer Status
Tursiops aduncus Indo-Pacific/Spotted Bottlenose Dolphin [68418]	Foraging	Known to occur	In buffer area only
Dugong			
Dugong dugon Dugong [28]	Foraging	Likely to occur	In buffer area only
Dugong dugon Dugong [28]	Foraging	Known to occur	In buffer area only
Dugong dugon Dugong [28]	Migration likely	Known to occur	In buffer area only
Marine Turtles			
Natator depressus Flatback Turtle [59257]	Internesting buffer	Known to occur	In buffer area only
River shark			
Pristis pristis Freshwater Sawfish [60756]	Foraging	Known to occur	In buffer area only
Pristis pristis Freshwater Sawfish [60756]	Juvenile	Known to occur	In buffer area only
Pristis pristis Freshwater Sawfish [60756]	Pupping	Known to occur	In buffer area only
Pristis zijsron Green Sawfish [68442]	Foraging	Known to occur	In buffer area only
Pristis zijsron Green Sawfish [68442]	Pupping	Known to occur	In buffer area only
Seabirds			
Fregata ariel Lesser Frigatebird [1012]	Breeding	Known to occur	In feature area
Sternula albifrons sinensis Little Tern [82850]	Breeding	Known to occur	In buffer area only
Sternula albifrons sinensis Little Tern [82850]	Resting	Known to occur	In buffer area only
Whales			

Scientific Name	Behaviour	Presence	Buffer Status
Balaenoptera musculus brevicauda Pygmy Blue Whale [81317]	Distribution	Known to occur	In buffer area only
Megaptera novaeangliae Humpback Whale [38]	Migration (north and south)	Known to occur	In buffer area only

Caveat

1 PURPOSE

This report is designed to assist in identifying the location of matters of national environmental significance (MNES) and other matters protected by the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) which may be relevant in determining obligations and requirements under the EPBC Act.

The report contains the mapped locations of:

- World and National Heritage properties;
- Wetlands of International and National Importance;
- Commonwealth and State/Territory reserves;
- distribution of listed threatened, migratory and marine species;
- listed threatened ecological communities; and
- other information that may be useful as an indicator of potential habitat value.

2 DISCLAIMER

This report is not intended to be exhaustive and should only be relied upon as a general guide as mapped data is not available for all species or ecological communities listed under the EPBC Act (see below). Persons seeking to use the information contained in this report to inform the referral of a proposed action under the EPBC Act should consider the limitations noted below and whether additional information is required to determine the existence and location of MNES and other protected matters.

Where data are available to inform the mapping of protected species, the presence type (e.g. known, likely or may occur) that can be determined from the data is indicated in general terms. It is the responsibility of any person using or relying on the information in this report to ensure that it is suitable for the circumstances of any proposed use. The Commonwealth cannot accept responsibility for the consequences of any use of the report or any part thereof. To the maximum extent allowed under governing law, the Commonwealth will not be liable for any loss or damage that may be occasioned directly or indirectly through the use of, or reliance

3 DATA SOURCES

Threatened ecological communities

For threatened ecological communities where the distribution is well known, maps are generated based on information contained in recovery plans, State vegetation maps and 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

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

Where little information is available for a 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 detailed distribution mapping methods are used to update these distributions

4 LIMITATIONS

The following species and ecological communities have not been mapped and do not appear in this report:

- threatened species listed as extinct or considered vagrants;
- some recently listed species and ecological communities;
- some listed migratory and listed marine species, which are not listed as threatened species; and
- migratory species that are very widespread, vagrant, or only occur in Australia in small numbers.

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

- listed migratory and/or listed marine seabirds, which are not listed as threatened, have only been mapped for recorded
- seals which have only been mapped for breeding sites near the Australian continent

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

Refer to the metadata for the feature group (using the Resource Information link) for the currency of the information.

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](#)
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- [-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.

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Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Locality	Date
<i>Acacia monticola</i> x <i>tumida</i> var. <i>kulparn</i>		3 Flowering in abundance. No fruit set in 1983. T. Willing has been checking this plant for 2-3 years but fruit never seems to set.			A short way off Kavite road in near coastal bushland S of Riddell Beach, Broome	07/06/1983
<i>Acacia monticola</i> x <i>tumida</i> var. <i>kulparn</i>		3 Semi-prostrate shrub. No fruit set in 1983. T. Willing has been checking this plant for 3-4 years but fruit never seems to set.	On exposed clifftop site.		Fringing POint road on the seaward side between the lighthouse and the turf club, Broome, Dampier Peninsula	09/06/1983
<i>Acacia monticola</i> x <i>tumida</i> var. <i>kulparn</i>		3 Near prostrate shrub.			Gantheaume Point, Broome	14/03/1982
<i>Acacia monticola</i> x <i>tumida</i> var. <i>kulparn</i>		3 Bark grey, cracking on lower stems to reveal red-brown colour. Shrub has semi "minnie-ritchie" tendencies.			Cable Beach Road near junction with Gupungi Road, Broome	03/06/1981
<i>Acacia monticola</i> x <i>tumida</i> var. <i>kulparn</i>		3			Broome, near junction of Cable Beach Road and Gupungi Road	11/07/1981
<i>Acacia monticola</i> x <i>tumida</i> var. <i>kulparn</i>		3 Ascending shrub 4 m tall more or less infundibular with foliage concentrated towards the ends of the branches. Sparsely flowered. Bark grey and fibrous, either splitting in a herring bone fashion or peeling in strips not dissimilar to "Minnie Ritchie".			Junction of Cable Beach Road and Gupungi Road, Broome	19/06/1981
<i>Acacia monticola</i> x <i>tumida</i> var. <i>kulparn</i>		3 Large shrub; shy flowerer, pods not seen.			Broome, Point Road near junction with Gupungi Road	05/04/1981
<i>Acacia monticola</i> x <i>tumida</i> var. <i>kulparn</i>		3 Low sprawling, rather openly branched shrub c. 0.7 m tall. Flowers light golden. Phyllodes dark green, badly eaten. Branchlets reddish. Bark grey longitudinally cracked (not peeling in a "Minni Ritchi" manner)	Coastal cliffs.		Gantheaume Point, Broome	19/06/1981
<i>Aphyllodium glossocarpum</i>		3 Shrub 2 m tall with numerous slender stems arising from ground level. Flowers pale purple, arranged in terminal racemes. Branchlets fragile, breaking easily. Leaflets complanate.			19.5 km from Beagle Bay Mission turn off on the road to Cape Leveque,	12/06/1981
<i>Aphyllodium glossocarpum</i>		3 Creeping subshrub, growing up to 0.4 m tall.	Margin of track in a pindan plain.	Disturbed <i>Acacia</i> eriopoda and <i>Corymbia</i> greeniana low woodland with a weedy understorey.	Track on outside of and on N side of the current Broome tip, ca. 10 km E of the centre of Broome, Kimberley Region	04/04/2017
<i>Aphyllodium parvifolium</i>		1 Spreading prostrate subshrub; leaves greyish green; flowers mauve with deeper mauve on keel.	In greyish pindan soil immediately adjacent to creek.		Near Barred Creek, 33 km N of Broome, Dampierland Peninsula	03/04/1988
<i>Aphyllodium parvifolium</i>		1 Semi prostrate plant to 30 cm high. Long trailing stems. Leaves in threes, small. Flowers purple, few. Fruit small rounded jointed laments.	Sandy soil.		Taylor's Lagoon, ca 76 km NE of Broome	26/04/1995
<i>Aphyllodium parvifolium</i>		1 Decumbent sub shrub 20 cm high x 120 cm wide. Flowers pink.	Swampy margins of lagoon.	Grasses and wetland ephemerals.	Taylor's Lagoon, S of Great Northern Highway, Dampier Peninsula, 71 km E of Broome	15/03/2009
<i>Bonamia oblongifolia</i>		3	Pindan sandplain.	<i>Eucalyptus</i> miniata, <i>Corymbia</i> dampieri, <i>C. greeniana</i> , <i>Terminalia</i> ferdinandiana scattered low trees over <i>Acacia</i> eriopoda (<i>Santalum lanceolatum</i>) tall open scrub over <i>Distichostemon hispidulus</i> var. <i>aridus</i> open shrubland. Associated Species: <i>Digitaria brownii</i>	James Price Point flora and vegetation survey, 45.2 km north north-west of Broome in the Kimberley region	10/03/2009
<i>Bonamia oblongifolia</i>		3	Low-lying, semi-swampy area verging on pindan.	<i>Lophostemon grandiflorus</i> subsp. <i>grandiflorus</i> , <i>Melaleuca dealbata</i> low open woodland over <i>Acacia colei</i> var. <i>colei</i> open heath. Associated Species: <i>Capparis lasiantha</i> , <i>Acacia platycarpa</i> , <i>Abrus precatorius</i> , <i>Tephrosia rosea</i> var. <i>rosea</i> , <i>Cyperus bifax</i> .	James Price Point flora and vegetation survey, 49.2 km north north-west of Broome in the Kimberley region	12/03/2009
<i>Bonamia oblongifolia</i>		3 Decumbent herb, 0.15 m high. Flowers present, pale lilac colour.	Pindan plain gently sloping towards the coast. Pindan soil, red clayey sand.	<i>Acacia</i> eriopoda open to mid-dense tall shrubland, with other scattered tall shrubs (<i>Acacia colei</i> var. <i>colei</i> , <i>Grevillea refracta</i> subsp. <i>refracta</i> and <i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>), with mixed medium shrubs and sparse tussock grasses. <i>Acacia</i> mon	James Price Point coastal area, c. 1 km inland, c. 50 km N of Broome, Dampier Peninsula, Kimberley region. Site of the proposed onshore state Browse LNG Precinct	22/11/2014
<i>Corymbia paractia</i>		1 Mallee to 8 m, leaves large ovate, stiff, dark green. Trunks mottled, smoother above to creamy, in fruit.	Flat. Red sand dunes.	<i>Acacia colei</i> and <i>Terminalia</i> species.	Cable Beach near surf club entrance in Broome	11/12/2015
<i>Corymbia paractia</i>		1 Tree to 6 m, bark smooth, white with some scaly bark at base, upper limbs smooth, flowers white.	Behind beach.	On edge of coastal vine thicket.	Cable Beach, Broome, Dampierland	24/05/1986
<i>Corymbia paractia</i>		1 Tree very straggly to 4 m with some flaky rough bark to 0.4 m.			Near racecourse, Broome	17/10/1988
<i>Corymbia paractia</i>		1 "Mallee" 3 m tall with thin, flaky grey bark to 0.5 m; leaves smooth.		With <i>E. confertiflora</i> .	1 km E of Racecourse, Broome	17/10/1988
<i>Corymbia paractia</i>		1 Tree-mallee 5 m tall. Bark smooth, pale grey or white. Leaves more or less dull, green. Flowers white.	In red sand.	With <i>Corymbia dampieri</i> .	Cable Beach, Broome	12/10/1996
<i>Corymbia paractia</i>		1 Tree to 6 m, bark smooth, white with some scaly bark at base, upper limbs smooth white, flowers white.	Behind beach.	On edge of coastal vine thicket. Growing adjacent to KFK 9758, <i>Eucalyptus papuana</i> .	Cable Beach, Broome, Dampierland	24/05/1986
<i>Corymbia paractia</i>		1 Tree to 10 m; trunk stout, knobbly; bark often persistent on lower trunk; flowers white.			Paul's Nursery, behind Cable Beach Club, Cable Beach, Broome	/12/1993
<i>Corymbia paractia</i>		1 Tree, bark cream, flowers white.	In pindan sand.	In grassed woodland beside fresh water creek with <i>Terminalia ferdinandiana</i> , <i>Acacia</i> eriopoda, <i>A. holosericea</i> , and <i>Lysiphylum cunninghamii</i> .	Barred Creek picnic ground, Cape Boileau, Dampierland Peninsula, W Kimberley,	15/12/1984
<i>Corymbia paractia</i>		1 Spreading 2-trunked tree 4 m tall, smooth bark.		With bloodwood.	6 km N of Broome P.O. [Post Office]	18/10/1988
<i>Corymbia paractia</i>		1 Tree 30 - 35 ft, trunk 2 ft 9 inches. Bark smooth white with occasional rough grey flaky patches.	Red sand.		Broome	04/05/1944
<i>Corymbia paractia</i>		1			Roebuck Bay	/12/1889
<i>Corymbia paractia</i>		1 Multi-stemmed tree to 5 m; bark slightly tessellated becoming white and smooth; flowers white.			1.7 km towards Cable Beach from intersection of Port Drive and Cable Beach Road, Broome, Dampierland Peninsula	12/04/1988

<i>Corymbia paractia</i>	1	Tree 2 m. Flowers white.	Sandy pindan behind coastal dunes.	With <i>Terminalia ferdinandiana</i> , <i>T. petiolaris</i> , <i>Gyrocarpus americanus</i> <i>Planchonia careya</i> .	Kim Male's old beach house, Cable Beach, Broome, Dampierland Peninsula, W Kimberley	24/12/1984
<i>Corymbia paractia</i>	1	Tree to 6 m, bark rough on trunk becoming smooth and white on upper branches, leaves pendulous, flowers white.	In transition zone between Holocene coastal dunes and red pindan soils.		Station Hill, Cable Beach, Broome	01/12/1992
<i>Corymbia paractia</i>	1	Tree to 6 m, bark rough on trunk becoming smooth and white on upper branches, leaves stiff, flowers white.	In red pindan soil.		Adjacent to Broome racecourse near Gantheaume Point	01/12/1992
<i>Corymbia paractia</i>	1	Small tree to 4 m, sprawling, spreading, weeping, green somewhat coarse foliage. Trunk smooth white, some persistent bark.	Flat. Behind dunes. Red sand.	<i>Acacia colei</i> and <i>Terminalia</i> species.	6.5 km along the Gantheume Point Track	12/12/2015
<i>Corymbia paractia</i>	1	7 m twin-trunked ghost gum.	Red pindan.	Growing with <i>Acacia colei</i> , <i>Flueggea virosa</i> and <i>Myoporum montanum</i> .	E side of Crab Creek Road, immediately N of cliff-top T-junction, Broome	11/12/2015
<i>Corymbia paractia</i>	1	8 m twin-trunked ghost gum.	Red pindan.	Growing with <i>Acacia eriopoda</i> , <i>Abrus precatorius</i> , <i>Brachychiton diversifolius</i> and <i>Bridelia tomentosa</i> .	1.8 km E of T-junction on N (inland) side of Crab Creek Road, Broome	11/12/2015
<i>Corymbia paractia</i>	1	Multi-stemmed tree 3 m high. Smooth whitish bark.	Red sandy loam near coast.	<i>Acacia heath</i> , <i>Corymbia zygophylla</i> .	On coastal track, between Gantheaume Point and Entrance Point, W of Broome, W Kimberley	12/06/2002
<i>Corymbia paractia</i>	1	Mallee to 6 m, bark rough on trunk becoming smooth and white on upper branches, leaves pendulous, flowers white.	In red pindan soil.	With <i>Terminalia ferdinandiana</i> .	Near Gantheaume Point, Broome	01/12/1992
<i>Corymbia paractia</i>	1	5 m multi-stemmed ghost gum.	Red pindan.	Growing with <i>Santalum lanceolatum</i> , <i>Acacia eriopoda</i> and <i>Brachychiton diversifolius</i> .	3 km E of T-junction on Crab Creek Road, between Crab Creek and Roebuck Bay cliff, Broome	11/12/2015
<i>Corymbia paractia</i>	1	Mallee to 8 m, leaves large ovate, stiff, dark green. Trunks mottled, smoother above to creamy, in fruit.	Flat. Red sand dunes.	<i>Acacia colei</i> and <i>Terminalia</i> species.	Cable Beach near surf club entrance in Broome	11/12/2015
<i>Corymbia paractia</i>	1	6.5 m tree. Flowers and immature fruits.			W side of Broome Highway, near OTC building	11/12/2013
<i>Corymbia paractia</i>	1	9 m tree. Flowerbuds.			E side of Waterbank Homestead Road near Coconut Well	06/12/2013
<i>Corymbia paractia</i>	1	White trunked <i>Corymbia</i> .		Open forest of <i>Melaleuca cajuputi</i> over woodland of <i>Timonius timon</i> , over fernland of <i>Arcrostichum</i> sp.	200m N of track running along the southern edge of Nimalarragun wetland, 1.4 km W of the Beagle Bay Broome Road, c. 20 km NNE of Broome townsite	10/05/2018
<i>Corymbia paractia</i>	1	White trunked <i>Corymbia</i> .		Low open woodland of <i>Corymbia opaca</i> , <i>Melaleuca alsophilum</i> and <i>Corymbia paractia</i> over low isolated clumps of <i>Bauhinia cunninghamii</i> and <i>Acacia colei</i> over closed grassland of <i>Chrysopogon pallidus</i> and <i>Sorghum</i> sp. over sparse forbland of <i>Buchnera</i> spp., <i>Caland</i>	N of Nimalarragun wetland, 200 m upslope of tidal creek, c. 20 km N of Broome, c. 5 km E of Willie Creek Pearl Farm, 1.35 km to W along track that turns NW, 560 m along SW track off Manari Road, 200 m from the intersection of Beagle Bay- Broome Road and	11/05/2018
<i>Corymbia paractia</i>	1	Tree to 5 m, bark rough for c. 0.5 m at the base then smooth and white.	In Pindan soil in a swale behind fore dunes.	In open <i>Corymbia</i> woodland with an <i>Acacia-Grevillea</i> understorey.	Broome, reserve opposite intersection of Gubinge Road and De Marchi Road	29/05/2014
<i>Fuirena incrassata</i>	3	Small sedge to 15 cm.	On ironstone in grey sandy clay by quarry.		Deep Creek at Great Northern Highway Crossing, 71 km E of Broome	16/03/1986
<i>Glycine pindanica</i>	3	Scrambling herbaceous perennial up to 0.2m tall.	Disturbed pindan adjacent to road on top of a stony rise.	<i>Acacia eriopoda</i> woodland.	North of Broome on Quondong Point rd turn of to cut line 101 N opposite Black tank and continue to next rise past Nowhere Creek.	18/04/1993
<i>Glycine pindanica</i>	3	Perennial scrambling herbaceous herb with pink flowers.	Small drainage sump associated with gravel pit on pindan plain.	<i>Euc. jensenii</i> woodland.	About 60 km N of Broome on Beagle Bay rd on crest of pindan dune & on E side of road	03/06/1993
<i>Glycine pindanica</i>	3	Climbing pea.	Pindan.		Lot 976 Gregory Street, Broome	08/03/1986
<i>Glycine pindanica</i>	3	Leaves long and narrow in threes. Flowers mauve-purple, small, few.	In disturbed pindan soil of roadside edges.		Ca 42 km N of Broome along One Arm Point road	25/02/1994
<i>Glycine pindanica</i>	3	Prostrate perennial herb with blue flowers growing in mats up to 0.1 m tall.	Loose sandy margins along main road. Bare soil.	This species only.	Cape Leveque Road, 61.9 km from Beagle Bay Community on a bearing of 201 degrees, 54 km NNE of Broome,	15/04/1999
<i>Glycine pindanica</i>	3	Prostrate creeping ground cover to 8 cm high. Flowers small, purplish mauve.	In red sand.	<i>Eucalyptus jensenii</i> woodland; under <i>Bloodwood</i> sp. and <i>Acacia holosericea</i> .	53 km from Broome on road to Beagle Bay, Dampierland	14/04/1985
<i>Glycine pindanica</i>	3	Prostrate herb.	In regrowth in borrow pit.	A grove of <i>Eucalyptus jensenii</i> .	The New Roadhouse, along the Beagle Bay road, ca 60 km N of Broome	04/06/1993
<i>Glycine pindanica</i>	3	Pea creeper. Flowers blue.	On pindan bu salt marsh.	In scrub with <i>Atalaya hemiglauca</i> .	Broome caravan park, Broome, Dampierland Peninsula, W Kimberley	/04/1985
<i>Glycine pindanica</i>	3	Prostrate with wiry, trailing branches. Pinnules subglaucous, complanate.	On roadside in red-brown sand.	Mixed woodland.	61.5 km N of Broome on the road to Beagle Bay Mission	20/06/1981
<i>Glycine pindanica</i>	3	Spreading prostrate creeper. Stems hairy. Leaves in threes, very long and thin, long taper to point. No flowers. Pods with 2-4 seed, also cleistagamous pods, white.	Disturbed sand bank of roadside, drainage ditch.	Mixed woodland.	40 km from Broome along road to Cape Leveque	30/05/1993
<i>Glycine pindanica</i>	3	Shrub 0.10 m high and 2 m wide. Perennial, prostrate and compact. Violet flower.	Plain. Road verge. Brown wet sand with old disturbed soil. In deep red sand on roadside verge. Freely drained, open site.	Bare areas.	Broome-Derby Road, 6.2 km E of [Fairway Road]; Broome	09/02/2005
<i>Glycine pindanica</i>	3	Green and near ripe pods present.		With woodland of <i>Eucalypt</i> and <i>Acacia</i> nearby.	44 km N of Broome Post Office towards Beagle Bay	29/09/1993
<i>Glycine pindanica</i>	3	Prostrate shrub growing to 0.05 m tall and 1.0 m in diameter.		Dense Thicket dominated by <i>Acacia</i> spp. growing to 4 m tall; over Dwarf Scrub with Open Low Grass (Muir 1977).	Adjacent to Gubinge Road, 600 m W of Magabala Road, 1.2 km due W of Broome Road, 1.8 km SE of Station Hill, 2.8 km N of Broome (PO)	30/03/2005
<i>Glycine pindanica</i>	3	Prostrate shrub growing to 0.05 m tall and 1.0 m in diameter.		Dense Thicket dominated by <i>Acacia</i> spp. growing to 4 m tall; over Dwarf Scrub with Open Low Grass (Muir 1977).	Adjacent to Gubinge Road, 200 m W of Magabala Road, 830 m due W of Broome Road, 2.1 km SE of Station Hill, 2.9 km N of Broome (PO)	30/03/2005
<i>Glycine pindanica</i>	3	Prostrate shrub growing to 0.1 m tall and 2.0 m in diameter.		Dense Thicket dominated by <i>Acacia</i> spp. growing to 4 m tall; over Dwarf Scrub with Open Low Grass (Muir 1977).	SE corner of Fairway Drive and Magabala Road intersection 970 m due W of Broome Road, 2.4 km NE of Station Hill, 4.4 km N of Broome (PO)	22/02/2005
<i>Glycine pindanica</i>	3	Big thick taproot. Leaves in threes, very long. To 95 x 7 mm long, tapering both ends. Flowers not seen. Pods with only 2-4 black seeds.	Disturbed sand on roadside.	<i>Eucalyptus miniata</i> woodland.	Ca 0.5 km N of Nowhere Creek, Dampier Peninsula, W Kimberley	18/04/1993
<i>Glycine pindanica</i>	3	Creeping perennial; leaves greyish green; flowers mauve.		In pindan (<i>Acacia</i> shrubland dominated by <i>A. eriopoda</i>).	Broome townsite (corner of Port Drive and Guy Street)	15/03/1987

<i>Gomphrena pusilla</i>	2	15 cm high.	Coastal dune slope. Calcareous sand, sandstone.	Crotalaria cunninghamii subsp. cunninghamii, Tephrosia rosea scattered shrubs over Indigofera linnaei, Gomphrena pusilla scattered herbs over Ipomoea pes- caprae subsp. brasiliensis, Cassytha filiformis, Canavalia rosea creepers. Condition very good, som	147.2 km SW of Cape Leveque, 53.1 km N of Broome and 159.5 km W of Derby in the Dampier Peninsula, Site 686_vou7.	05/05/2011
<i>Gomphrena pusilla</i>	2	20 cm high.	Pale orange sand with shell grit. Fire > 12 years.	Mixed evergreen vine thicket and dune vegetation. Terminalia petiolaris, Bauhinia cunninghamii, Diospyros humilis, Mimusops elengi, Celtis philippensis low open forest over Breynia cernua, Flueggea virosa subsp. melanthesoides open shrubland with Abrus p	51.5 km N of Broome, 148.3 km SW of Cape Leveque and 159.2 km W of Derby in the Dampier Peninsula. Site 686_vou17.	29/04/2011
<i>Gomphrena pusilla</i>	2		Ridge of sand dune. Sandy area between vine thickets, see K. Kenneally's transect A.	Indigofera colutea (Tephrosia rosea var. rosea) low open shrubland over Enneapogon pallidus very open tussock grassland. Associated Species: Indigofera colutea, Boerhavia gardneri, Indigofera linifolia, Tephrosia rosea var. rosea.	Along the W coast of the Dampier Peninsula, 51 km N of Broome, 132 km W-SW of Valentine Island, in the Kimberley region	23/03/2010
<i>Gomphrena pusilla</i>	2			Indigofera colutea (Tephrosia rosea var. rosea) low open shrubland over Enneapogon pallidus very open tussock grassland. Associated Species: Indigofera colutea, Boerhavia gardneri, Indigofera linifolia, Tephrosia rosea var. rosea.	Along the W coast of the Dampier Peninsula, 46 km N of Broome, 133 km W-SW of Valentine Island	23/03/2010
<i>Gomphrena pusilla</i>	2			Terminalia petiolaris low open woodland over Mimusops elengi, Grewia breviflora tall shrubland over Glycosmis trifoliata, Flueggea virosa subsp. melanthesoides scattered shrubs over Enneapogon pallidus scattered tussock grasses. Associated Species: Mimus	Along the west coast of the Dampier Peninsula, 51 km north of Broome, 132 km west-southwest of Valentine Island, in the Kimberley region	28/03/2010
<i>Gomphrena pusilla</i>	2		Deflation basin on crest of dune; pale tan sand over orange sand.		Along the west coast of the Dampier Peninsula, 46 km north of Broome, 133 km west-southwest of Valentine Island, in the Kimberley region	29/03/2010
<i>Gomphrena pusilla</i>	2		Primary dune; face and crest to back of dune (not swale).	Crotalaria cunninghamii, Tephrosia rosea var. rosea low shrubland over Spinifex longifolius open grassland with Canavalia rosea, Ipomoea pes-caprae subsp. brasiliensis trailing vines. Associated Species: Cullen martinii, Tinospora smilacina, Fimbristylis	James Price Point flora and vegetation survey, 41.8 km north north-west of Broome in the Kimberley region	07/03/2009
<i>Gomphrena pusilla</i>	2	Small herb to 15 cm high.	Behind foredune; fine beach sand.	With Ipomoea sp., Acacia sp. and Spinifex sp.	4 km N from Cable Beach Reserve parking area, Broome,	18/04/1992
<i>Gomphrena pusilla</i>	2	Sprawling herb, stems tinged maroon, flowers white, tinged mauve.			Barred Creek, 35 km N of Broome, Dampierland,	02/06/1986
<i>Gomphrena pusilla</i>	2		Coastal sand dunes.	Crotalaria cunninghamii open shrubland over Spinifex longifolius open hummock grassland. Associated Species: Spinifex longifolius, Crotalaria cunninghamii, Enneapogon pallidus, Tephrosia rosea var. rosea, Indigofera linnaei.	Along the west coast of the Dampier Peninsula, 49 km north of Broome, 132 km west-southwest of Valentine Island, in the Kimberley region	28/03/2010
<i>Goodenia byrnesii</i>	3		Orange brown silty sand.	Open woodland of Corymbia dampierii and Corymbia zygophylla over sparse Shrub- land of Acacia colei var. colei and Acacia eriopoda over grassland dominated by Triodia acutispicula, Triodia microstachya or Triodia pungens on orange to red pindan soil on l	Broome Peninsula	09/04/2008
<i>Ipomoea tolmerana</i> subsp. <i>occidentali</i>	1	Perennial vine with mid mauve flowers, growing up to 1 m tall.	Margin of road in pindan plain.	Eucalypt savannah woodland.	Ca 1 km S of the Roadhouse and 50 km N of Broome on the Beagle Bay track, Dampier Peninsula	27/03/2001
<i>Jacquemontia</i> sp. Broome (A.A. Mitchell 3028)	1	Creeping herb to 0.3 m.	Brown orange sand on plain.	Corymbia greeniana low open woodland with Bauhinia cunninghamii, Triodia acutispicula, Sorghum plumosum and Chrysopogon pallidus.	Proposed Temporary Workers' Accommodation Camp, ca 12 km NE of Broome	02/06/2011
<i>Jacquemontia</i> sp. Broome (A.A. Mitchell 3028)	1	Creeping herb to 0.3 m.	Brown orange sand on plain.	Corymbia greeniana low open woodland with Bauhinia cunninghamii, Triodia acutispicula, Sorghum plumosum and Chrysopogon pallidus.	Proposed Temporary Workers Accommodation Camp, ca 12 km NE of Broome	02/06/2011
<i>Jacquemontia</i> sp. Broome (A.A. Mitchell 3028)	1	Scrambling herbaceous perennial up to 0.4 m tall with light mauve flowers.	Disturbed pindan.	Acacia eripoda woodland.	N of Broome on Quondong Point road turn off to cut line 101 N opposite Black tank and continue onto Nowhere Creek. Burrow pit in base of creek	18/04/1993
<i>Jacquemontia</i> sp. Broome (A.A. Mitchell 3028)	1	Low spreading shrub to ca. 0.3 m.	Pindan plain. Red sand loam.	Acacia plectocarpa subsp. plectocarpa, Acacia tumida var. kulparn and Hakea macrocarpa shrubland with scattered Corymbia confertiflora and Corymbia greeniana trees over Dolichandrone occidentalis and Bauhinia cunninghamii sparse shrubland over Acacia ado	Crab Creek Road, ca. 6 km NE of Broome, 3.05 km S of Broome Road, ca. 100 m E of Crab Creek Road	30/04/2019
<i>Jacquemontia</i> sp. Broome (A.A. Mitchell 3028)	1	Low shrub growing to 0.1 m tall and 1.0 m in diameter.		Dense thicket dominated by Acacia spp. growing to 4 m tall; over Dwarf Scrub with Open Low Grass (Muir 1977).	100 m W of Fairway Drive and Magabala Road intersection, 1.2 km due W of Broome Road, 2.2 km NE of Station Hill, 4.4 km N of Broome (PO)	29/03/2005
<i>Jacquemontia</i> sp. Broome (A.A. Mitchell 3028)	1	Low shrub growing to 0.1 m tall and 1.0 m in diameter.		Dense Thicket dominated by Acacia spp. growing to 4 m tall; over Dwarf Scrub with Open Low Grass (Muir 1977).	100 m W of Fairway Drive and Magabala Road intersection, 1.2 km due W of Broome Road, 2.2 km NE of Station Hill, 4.4 km N of Broome (PO)	30/03/2005
<i>Jacquemontia</i> sp. Broome (A.A. Mitchell 3028)	1	Low erect shrub growing to 0.1 m tall and 1.0 m in diameter.		Dense Thicket dominated by Acacia spp. growing to 4 m tall; over Dwarf Scrub with Open Low Grass (Muir 1977).	SE corner of Fairway Drive and Magabala Road intersection, 970 m due W of Broome Road, 2.4 km NE of Station Hill, 4.4 km N of Broome (PO)	22/02/2005

<i>Lophostemon grandiflorus</i> subsp. <i>grandiflorus</i>	3		Drainage basin. Salmon coloured sandy loam.	Melaleuca dealbata, Lophostemon grandiflorus subsp. grandiflorus low woodland over Acacia coleii var. coleii, Tephrosia rosea var. clementii shrubland over Abutilon otocarpum low open shrubland. Condition poor.	49.8 km N of Broome, 159 km W of Derby and 149.2 km SW of Cape Leveque on the Dampier Peninsula, Site 633_vou2.	28/11/2010
<i>Lophostemon grandiflorus</i> subsp. <i>grandiflorus</i>	3		Drainage basin. Grey brown sand. Fire > 12 years.	Semi-deciduous vine thicket. Corymbia bella, Lophostemon grandiflorus subsp. grandiflorus, Melaleuca dealbata low open forest of Diospyros humilis, Terminalia petiolaris tall open shrubland over Flueggea virosa subsp. melanthesoides scattered shrubs with	44.5 km N of Broome, 153.5 km SW of Cape Leveque and 159.6 km W of Derby in the Dampier Peninsula, Site 686_vou16.	20/05/2011
<i>Lophostemon grandiflorus</i> subsp. <i>grandiflorus</i>	3	Tree to 6 m. Flowers pale yellow. Bark box-type.		Coastal vine thicket dominated by Lophostemon.	S of James Price Point	14/11/2009
<i>Nymphoides beaglensis</i>	3				Lake Campion, 55 km E of Broome	30/04/1987
<i>Nymphoides beaglensis</i>	3	Floating aquatic herb with pink flowers with roots into the soil.	Temporarily inundated valley with clay soil.	Herbfield.	About 100 km ESE of Broome, about 5 km S of Derby Road and about 2 km N of Lake Campion	28/03/1996
<i>Nymphoides beaglensis</i>	3	A water plant with broadly ovate leaves with petioles 5-10cm long. Flowers in clusters subtended by a floating leaf. Corolla white with a pale pink throat. In flower and bud.	Grey/brown mud on the edge of a shallow pool.	Water plants voucher 3498, 3501.	Taylors Lagoon, Broome	25/07/2008
<i>Paranotis halfordii</i>	3				N side of Taylor's Lagoon, 70 km ENE of Broome on S side of Great Northern Highway	04/04/2013
<i>Paranotis halfordii</i>	3	Herb 50 cm, flowers pink, 4 petalled.	Growing near creek in grey sandy clay. On salt marsh with salt couch.	Sedgeland.	Barred Creek, Dampierland Peninsula, W Kimberley	24/02/1985
<i>Paranotis halfordii</i>	3	Slender herb, flowers pink, 4 petals.	N of the lagoon.	In herbfield in Melaleuca woodland.	Taylors Lagoon, 77 km E of Broome on Derby Road	26/06/1997
<i>Pittosporum moluccanum</i>	4	Small tree to 5 m, dense, glossy leaves, orange fruits.	Hilly, white sand.	Vine thickets, woodland. With Celtis philippensis, Mimusops elengi, Eucalyptus spp.	2.2 km S of James Price Point on main road, then 50 m on track towards beach from old road deviation	29/08/2006
<i>Pittosporum moluccanum</i>	4		Sand dune. Pale orange beach sand with shell grit. Fire >12 years.	Mixed patch of evergreen vine thicket of Terminalia petiolaris, Bauhinia cunninghamii low open forest over Diospyros humilis, Croton habrophyllus, Grewia breviflora, Santalum lanceolatum, tall open scrub over Tephrosia aff. rosea, Euphorbia coghlanii, Cr	148 km SW of Cape Leveque, 51.6 km N of Broome and 159.2 km W of Derby in the Dampier Peninsula. Site 686_vou6.	29/04/2011
<i>Pittosporum moluccanum</i>	4		Coastal sand dune crest and swales. Calcareous pale orange sand.	Terminalia petiolaris, Mumusops elengi, Sersalisia sericea, Pittosporum moluccanum tall open scrub over Croton habrophyllus, Diospyros humilis, Tylophora cinerascens, Caesalpinia major open scrub over mixed herbs and grasses. Condition excellent.	151.4 km SW of Cape Leveque, 47.4 km N of Broome and 159.4 km W of Derby in the Dampier Peninsula, Site 686_vou8.	12/05/2011
<i>Pittosporum moluccanum</i>	4		Vine thicket in coastal dune pocket (leeward side of dune).	Mimusops elengi, Diospyros humilis, Glycosmis trifoliata, Terminalia petiolaris low woodland over Enneapogon pallidus very open tussock grassland. Associated Species: Cymbopogon ambiguus, Santalum lanceolatum, Tephrosia rosea var. rosea, Grewia breviflor	James Price Point flora and vegetation survey, 50.5 km north north-west of Broome in the Kimberley region	11/03/2009
<i>Pittosporum moluccanum</i>	4				James Price Point on the Dampier Peninsula, c. 60 km N of Broome	05/05/2011
<i>Pittosporum moluccanum</i>	4				James Price Point on the Dampier Peninsula, c. 60 km N of Broome	05/05/2011
<i>Pittosporum moluccanum</i>	4	Small tree 6 m; flowers white, slightly scented.	In sand dune scrub in white sand.	Scrub with Celtis philippinensis.	James Price Point, Dampierland Peninsula, W Kimberley	02/03/1985
<i>Pittosporum moluccanum</i>	4	Tree to 2 m, bark smooth, grey, fruits orange.	In secondary sand dune.		2 km S of Prices Point (200 m off track) on road to Broome, Dampier Peninsula	25/09/1984
<i>Pittosporum moluccanum</i>	4	Tree to 6 m. Leaves in terminal clusters; fruits orange, splitting to reveal seeds.	On lee side of primary sand dune in white sand.	With Lysiphyllum cunninghamii, Celtis philippinensis and Terminalia petiolaris.	3 km S of James Price Point, Dampier Peninsula, W Kimberley	07/10/1984
<i>Pittosporum moluccanum</i>	4	Tree or shrub to 4 m, with well-formed rounded canopy, the leaves clustered at the ends of the branches, leaves upper surface glossy green, lower dull green, flowers white, fragrant.		In coastal vine thicket.	0.5 km W of Moorak Bore, 50 km due N of Broome, Dampierland Peninsula	14/08/1985
<i>Polymeria</i> sp. Broome (K.F. Kenneally 9759)	3		Poorly defined drainage line on a plain. Pale orange pindan sand.	Post-fire: Acacia eriopoda, A. monticola (Grevillea pyramidalis subsp. pyramidalis, Hakea macrocarpa) tall open shrubland over Distichostemon hispidula var. aridus open shrubland Pre-fire: Eucalyptus miniata tall open woodland over Acacia eriopoda (A. mo	Along the west coast of the Dampier Peninsula, 51 km north of Broome, 130 km west-southwest of Valentine Island, in the Kimberley region	27/03/2010
<i>Polymeria</i> sp. Broome (K.F. Kenneally 9759)	3		Near-coastal plain.	Acacia eriopoda shrubland over Gyrostemon tepperi low open shrubland over Eragrostis aff. eriopoda, Aristida holathera var. holathera, A. hygrometrica open tussock grassland. Associated Species: Hakea arborescens, Hakea macrocarpa, Santalum lanceolatum,	James Price Point flora and vegetation survey, 41.3 km north north-west of Broome in the Kimberley region	09/03/2009
<i>Polymeria</i> sp. Broome (K.F. Kenneally 9759)	3		Coastal plain.	Terminalia ferdinandiana scattered shrubs over *Cenchrus ciliaris, Heteropogon contortus tussock grassland. Associated Species: Hakea macrocarpa, Santalum lanceolatum, Carissa lanceolata, Cajanus marmoratus, Flueggea virosa subsp. melanthesoides.	James Price Point flora and vegetation survey, 40.4 km north north-west of Broome in the Kimberley region	06/03/2009
<i>Polymeria</i> sp. Broome (K.F. Kenneally 9759)	3	Trailing herb, leaves greyish green, flowers mauve.	In red pindan soil on road verge and in drain.		Corner Hunter & Clementson Streets, Broome, Dampierland	25/05/1986

<i>Seringia exastia</i>	T		Peninsula. Red-orange sand.	Open Woodland of mixed <i>Corymbia</i> spp., <i>Hakea macrocarpa</i> and <i>Persoonia falcata</i> over Shrubland dominated by <i>Acacia colei</i> var. <i>colei</i> and other species such as <i>Ehretia saligna</i> var. <i>saligna</i> and <i>Waltheria indica</i> over grassland dominated by <i>Triodia pungens</i> and T	Broome Peninsula	10/04/2008
<i>Seringia exastia</i>	T	Erect, multi-stemmed shrub to 60 cm, flowers with purple calyx.	Relict desert dune. Red sand.	With <i>Acacia</i> sp., <i>Gyrostemon</i> sp. and <i>Triodia</i> sp.	500 m N from Port Drive on Kavite Road, Broome	25/05/1995
<i>Seringia exastia</i>	T	Much branched subshrub; leaves greyish green; flowers mauve; petals reflexed.	In red pindan soil.		Junction Point Road and Port Drive, Broome, Dampierland Peninsula,	29/04/1987
<i>Seringia exastia</i>	T	Erect, multi-stemmed shrub to 60 cm, flowers with purple calyx.	Relict desert dune. Red sand.	With <i>Acacia</i> sp., <i>Gyrostemon</i> sp. and <i>Triodia</i> sp.	500 m N from Port Drive on Kavite Road, Broome	25/05/1995
<i>Seringia exastia</i>	T	Erect, multi-stemmed shrub to 60 cm, flowers with purple calyx.	Relict desert dune. Red sand.	With <i>Acacia</i> sp., <i>Gyrostemon</i> sp. and <i>Triodia</i> sp.	500 m N from Port Drive on Kavite Road, Broome	25/05/1995
<i>Seringia exastia</i>	T	Erect, multi-stemmed shrub to 60 cm, purple calyx with acuminate apex.	Red clayey sand.	Sump hummock grassland between desert dunes with <i>Triodia</i> , <i>Eucalyptus</i> sp., <i>Hakea macrocarpa</i> , <i>Gyrostemon</i> , <i>Acacia eriopoda</i> .	500 m SW of Port Drive on a track which runs from 200 m SW of Reid Road on Wood Drive, to Port Drive	25/05/1995
<i>Seringia exastia</i>	T	A twiggy much branched shrub to 70 cm, finely tomentose; stems woody, lower grey, upper reddish brown; leaves dull silvery green, discolourous, centre folding, veins somewhat herringbone like - showing on underside only, oblong; flowers 5 petals in groups			Broome, Dampier Peninsula, N Kimberley	02/11/1991
<i>Seringia exastia</i>	T	Erect, multi-stemmed shrub to 60 cm. Flowers with purple calyx.	Red sand. Relict desert dune.	With <i>Acacia</i> sp., <i>Gyrostemon</i> sp. and <i>Triodia</i> sp.	500 m N from Port Drive on Kavite Road, Broome	25/05/1995
<i>Seringia exastia</i>	T	Erect, multi-stemmed shrub to 60 cm, purple calyx with acuminate apex.	Red clayey sand.	Sump hummock grassland between desert dunes with <i>Triodia</i> , <i>Eucalyptus</i> sp., <i>Hakea macrocarpa</i> , <i>Gyrostemon</i> , <i>Acacia eriopoda</i> .	500 m SW of Port Drive on a track which runs from 200 m SW of Reid Road on Wood Drive, to Port Drive	25/05/1995
<i>Seringia exastia</i>	T	Subshrub to 30 cm, leaves discolourous, darker on upper surface, flowers mauve.	In deep red soil.		1 km E of wharf, Broome townsite, Dampierland Peninsula	13/08/1985
<i>Seringia exastia</i>	T		Slope. Orange, silty sand.		Broome Peninsula	28/08/2007
<i>Seringia exastia</i>	T				Dampier Peninsula, Broome	15/05/2005
<i>Seringia exastia</i>	T	Erect, multi-stemmed shrub to 60 cm, flowers with purple calyx.	Relict desert dune. Red sand.	With <i>Acacia</i> sp., <i>Gyrostemon</i> sp. and <i>Triodia</i> sp.	500 m N from Port Drive on Kavite Road, Broome	25/05/1995
<i>Seringia exastia</i>	T	Erect, multistemmed shrub to 60 x 100 cm, purple calyx.	Desert dunes with red clayey sand.	Sump hummock grassland between desert dunes, with <i>Triodia</i> , <i>Eucalyptus</i> sp, <i>Hakea macrocarpa</i> , <i>Gyrostemon</i> and <i>Acacia eriopoda</i> .	Plant is 500 m SW of Port Drive on a track that runs from 200 m SW of Reid Road on Wood Drive to Port Drive, Broome	25/05/1995
<i>Seringia exastia</i>	T	Upright globular shrub with purple & yellow flowers	Pindan plain behind dune	Low acacia 3m shrubland	About 6 km WNW of Broome near BP depot & approaches to Deep water jetty	22/08/1993
<i>Stylidium pindanicum</i>		3 Stems light green or with pink tinge. Leaves linear obovate - spatulate and toothed. Flowers pink, 6 mm longest diameter.	Sandy soil.		Taylor's Lagoon, ca 76 km ENE of Broome	29/08/1993
<i>Stylidium pindanicum</i>		3 Erect annual; flowers pink.	In damp sand surrounding claypan at well.		Yulleroo Well, 85 km NE of Broome on Great Northern Highway, Kimberley	29/06/1993
<i>Stylidium pindanicum</i>		3 Erect annual; flowers pink.	In river washed sand.		Deep Creek, 55 km E of Broome on Great Northern Highway, Kimberley	29/06/1993
<i>Stylidium pindanicum</i>		3 Annual herb to 25 cm. Flowers pink.	Clay flat.	Open woodland with <i>Eucalyptus tectifica</i> over grassland.	E side of Cape Leveque Road behind Nimalaragun Stock Dam, Dampier Peninsula, NE of Broome	07/05/2011
<i>Stylidium pindanicum</i>		3		Low open woodland of <i>Corymbia opaca</i> , <i>Melaleuca alsophilum</i> and <i>Corymbia paractia</i> over low isolated clumps of <i>Bauhinia cunninghamii</i> and <i>Acacia colei</i> over closed grassland of <i>Chrysopogon pallidus</i> and <i>Sorghum</i> sp., over sparse forbland of <i>Buchnera</i> sp., Caland	N of Nimalarragun wetland, 200 m upslope of tidal creek, c. 20 km N of Broome, c. 5 km E of Willie Creek Pearl Farm. 1.35 km to W along track that turns NW 560 m along SW track off Manari Road 200 m from the intersection of Beagle Bay Broome Road and Man	11/05/2018
<i>Stylidium pindanicum</i>		3 Annual herb to 20 cm. Flowers pink.	Clay flat.	Open woodland with <i>Eucalyptus tectifica</i> over grassland.	Head of creek on S side, c. 1 km W of Cape Leveque Road on small track opposite Nimalaragun Stock Dam, Dampier Peninsula, NE of Broome	04/05/2011
<i>Tephrosia pedleyi</i>		3 Rounded low shrub to 60 cm tall x 100 cm wide with stout, corky stem. In flower. Corolla orange.	Pindan Sandplain. Deep red sands on gently undulating sandplain. Yeeda Land System. Burnt c. 5 years previously.	Emergent <i>Gyrocarpus americanus</i> , <i>Corymbia zygophylla</i> and <i>Dolichandrone occidentalis</i> over sparse tall shrubs of <i>Acacia eriopoda</i> , <i>Grevillea refracta</i> and <i>Persoonia falcata</i> , over sparse (15-20%) shrubland of <i>Acacia eriopoda</i> , over mid-dense (65-70%) grassland	15 km E of Fraser Lake Bore, 25 km ESE of Sheep Camp Bore, 64 km E of Broome township, Roebuck Plains Station	20/07/2017
<i>Tephrosia pedleyi</i>		3 Rounded low shrub to 50 cm tall x 50 cm wide with a stout, corky stem 1-2 cm in diameter. In flower. Corolla orange.	Pindan Sandplain. Deep red sands on gently undulating sandplain. Yeeda Land System. Burnt c. 5 years previously.	Scattered trees to very open woodland of <i>Gyrocarpus americanus</i> , <i>Dolichandrone occidentalis</i> and <i>Bauhinia cunninghamii</i> over very sparse (8%) shrubland of <i>Acacia eriopoda</i> , over dense (70-80%) <i>Sorghum plumosum</i> , <i>Triodia</i> cf. <i>caelestialis</i> and <i>Aristida holathera</i>	15 km E of Fraser Lake Bore, 25 km ESE of Sheep Camp Bore, 64 km E of Broome township, Roebuck Plains Station	20/07/2017
<i>Tephrosia valleculata</i>		3	Gravel pit.		Roebuck Plains Station, gravel pit off highway, S of Ram Bore	03/03/1992
<i>Terminalia kumpaja</i>		3 Tree to 6 m, bark brown, fissured, fruits (old) collected from ground.			Poinciana Well, Dampierland, N of Broome	11/09/1978
<i>Terminalia kumpaja</i>		3 Small tree to 3 m. Flowers white.	Pindan, sandy.	Scrub of <i>Acacia holosericea</i> and <i>A. eriopoda</i> .	Coconut Well road, 2.5 km from Beagle Bay Road, Dampier Peninsula	18/10/1984
<i>Terminalia kumpaja</i>		3 Tree to 4.5 m, bark deeply fissured and corky.			2 km N of Broome, on Broome-Derby Road, W Kimberley	18/06/1984
<i>Terminalia kumpaja</i>		3			Broome district	/01/1933
<i>Terminalia kumpaja</i>		3			Broome district	/01/1933

<i>Terminalia kumpaja</i>	3		Pindan plain. Light reddish brown sandy clay loam.	Bauhinia cunninghamii, Corymbia zygophylla, C. greeniana scattered low trees to low open woodland over Acacia eriopoda, Ficus aculeata var. indecora tall shrubland over Dodonaea hispidula, Breynia cernua open shrubland over Corchorus sidoides subsp. sido	25 km NNE of Broome, 46 km W of Kilto and 90 km SSW of Beagle Bay	02/05/2018
<i>Terminalia kumpaja</i>	3		Pindan plain. Light reddish brown sandy clay loam.	Bauhinia cunninghamii, Corymbia zygophylla, C. greeniana scattered low trees to low open woodland over Acacia eriopoda, Ficus aculeata var. indecora tall shrubland over Dodonaea hispidula, Breynia cernua open shrubland over Corchorus sidoides subsp. sido	25 km NNE of Broome, 46 km W of Kilto and 90 km SSW of Beagle Bay	02/05/2018
<i>Thespidium basiflorum</i>	1			forest Melaleuca	Coconut Well 15km N of Broome Dampier Peninsula	15/06/1985
<i>Thespidium basiflorum</i>	1		black soil with white sand	forest Melaleuca acacioides	Coconut Well N of Broome Dampier Peninsula	19/05/1985

COM_ID	COM_NAME	STATE_CATG	COMM_CATG	BUFFER
Corymbia paractia	Corymbia paractia dominated community on dunes	Priority 1		500
Dwarf pindan heath	Dwarf pindan heath community of Broome coast	Priority 1		750
Eighty Mile Land System	Eighty Mile Land System	Priority 3		500
Mangarr (Minyjuru)	Relict dune system dominated by extensive stands of Minyjuru (Mangarr) Sersalisia (formerly Pouteria) sericea.	Priority 1		500
Nimalarica Claypan	Nimalarica Claypan Community (prevously Nimalaica)	Priority 4		500
Roebuck Bay mudflats	Species-rich faunal community of the intertidal mudflats of Roebuck Bay	Vulnerable		5000
Roebuck Land System	Roebuck Land System	Priority 3		500
Vegetation Association 37	Kimberley Vegetation Association 37	Priority 3		500
Vegetation Association 67	Kimberley Vegetation Association 67	Priority 3		500
Vegetation Association 73	Kimberley Vegetation Association 73	Priority 3		500
Vegetation Association 770	Kimberley Vegetation Association 770	Priority 1		500
Vine thickets	Monsoon (vine) thickets on coastal sand dunes of Dampier Peninsula	Vulnerable	Endangered	2000
Vine thickets	Monsoon (vine) thickets on coastal sand dunes of Dampier Peninsula	Vulnerable	Endangered	500
Vine thickets	Monsoon (vine) thickets on coastal sand dunes of Dampier Peninsula	Vulnerable	Endangered	100

CLASS	SCI_NAME	COM_NAME	WA status	EPBC status	YEAR
BIRD	<i>Actitis hypoleucos</i>	Common Sandpiper	MI	MI	1977
BIRD	<i>Actitis hypoleucos</i>	Common Sandpiper	MI	MI	1978
BIRD	<i>Actitis hypoleucos</i>	Common Sandpiper	MI	MI	1980
BIRD	<i>Actitis hypoleucos</i>	Common Sandpiper	MI	MI	1981
BIRD	<i>Actitis hypoleucos</i>	Common Sandpiper	MI	MI	1998
BIRD	<i>Actitis hypoleucos</i>	Common Sandpiper	MI	MI	1999
BIRD	<i>Actitis hypoleucos</i>	Common Sandpiper	MI	MI	2000
BIRD	<i>Actitis hypoleucos</i>	Common Sandpiper	MI	MI	2001
BIRD	<i>Actitis hypoleucos</i>	Common Sandpiper	MI	MI	2002
BIRD	<i>Actitis hypoleucos</i>	Common Sandpiper	MI	MI	2003
BIRD	<i>Actitis hypoleucos</i>	Common Sandpiper	MI	MI	2004
BIRD	<i>Actitis hypoleucos</i>	Common Sandpiper	MI	MI	2005
BIRD	<i>Actitis hypoleucos</i>	Common Sandpiper	MI	MI	2006
BIRD	<i>Actitis hypoleucos</i>	Common Sandpiper	MI	MI	2007
BIRD	<i>Actitis hypoleucos</i>	Common Sandpiper	MI	MI	2008
BIRD	<i>Actitis hypoleucos</i>	Common Sandpiper	MI	MI	2009
BIRD	<i>Actitis hypoleucos</i>	Common Sandpiper	MI	MI	2011
BIRD	<i>Actitis hypoleucos</i>	Common Sandpiper	MI	MI	2012
BIRD	<i>Actitis hypoleucos</i>	Common Sandpiper	MI	MI	2013
BIRD	<i>Actitis hypoleucos</i>	Common Sandpiper	MI	MI	2014
BIRD	<i>Actitis hypoleucos</i>	Common Sandpiper	MI	MI	2015
BIRD	<i>Actitis hypoleucos</i>	Common Sandpiper	MI	MI	2017
BIRD	<i>Anas querquedula</i>	Garganey	MI	MI	1999
BIRD	<i>Anas querquedula</i>	Garganey	MI	MI	2001
BIRD	<i>Anas querquedula</i>	Garganey	MI	MI	2006
BIRD	<i>Anous stolidus</i>	common noddy	MI	MI	1900
BIRD	<i>Anous stolidus</i>	common noddy	MI	MI	1995
BIRD	<i>Anous stolidus</i>	common noddy	MI	MI	1999
BIRD	<i>Anous stolidus</i>	common noddy	MI	MI	2000
BIRD	<i>Anous stolidus</i>	common noddy	MI	MI	2001
BIRD	<i>Anous stolidus</i>	Common Noddy	MI	MI	2012
BIRD	<i>Anous stolidus</i>	Common Noddy	MI	MI	2013
BIRD	<i>Apus pacificus</i>	Fork-tailed swift	MI	MI	0
BIRD	<i>Apus pacificus</i>	Fork-tailed swift	MI	MI	0
BIRD	<i>Apus pacificus</i>	Fork-tailed swift	MI	MI	1909
BIRD	<i>Apus pacificus</i>	Fork-tailed swift	MI	MI	1909
BIRD	<i>Apus pacificus</i>	Fork-tailed swift	MI	MI	1978
BIRD	<i>Apus pacificus</i>	Fork-tailed swift	MI	MI	1997
BIRD	<i>Apus pacificus</i>	Fork-tailed swift	MI	MI	1997
BIRD	<i>Apus pacificus</i>	Fork-tailed swift	MI	MI	1998
BIRD	<i>Apus pacificus</i>	Fork-tailed swift	MI	MI	1999
BIRD	<i>Apus pacificus</i>	Fork-tailed swift	MI	MI	2000
BIRD	<i>Apus pacificus</i>	Fork-tailed swift	MI	MI	2001
BIRD	<i>Apus pacificus</i>	Fork-tailed swift	MI	MI	2001
BIRD	<i>Apus pacificus</i>	Fork-tailed swift	MI	MI	2002
BIRD	<i>Apus pacificus</i>	Fork-tailed swift	MI	MI	2003
BIRD	<i>Apus pacificus</i>	Fork-tailed swift	MI	MI	2006
BIRD	<i>Apus pacificus</i>	Fork-tailed swift	MI	MI	2007
BIRD	<i>Apus pacificus</i>	Fork-tailed swift	MI	MI	2007
BIRD	<i>Apus pacificus</i>	Fork-tailed swift	MI	MI	2009
BIRD	<i>Apus pacificus</i>	Fork-tailed swift	MI	MI	2010
BIRD	<i>Apus pacificus</i>	Fork-tailed swift	MI	MI	2011
BIRD	<i>Apus pacificus</i>	Fork-tailed swift	MI	MI	2011
BIRD	<i>Apus pacificus</i>	Fork-tailed swift	MI	MI	2012
BIRD	<i>Apus pacificus</i>	Fork-tailed swift	MI	MI	2012
BIRD	<i>Apus pacificus</i>	Fork-tailed swift	MI	MI	2013
BIRD	<i>Apus pacificus</i>	Fork-tailed swift	MI	MI	2015
BIRD	<i>Ardenna pacifica</i>	wedge-tailed shearwater	MI	MI	1995
BIRD	<i>Ardenna pacifica</i>	Wedge-tailed Shearwater	MI	MI	2007
BIRD	<i>Ardenna tenuirostris</i>	Short-tailed shearwater	MI	MI	1999
BIRD	<i>Arenaria interpres</i>	Ruddy turnstone	MI	MI	0
BIRD	<i>Arenaria interpres</i>	Ruddy turnstone	MI	MI	1977
BIRD	<i>Arenaria interpres</i>	Ruddy turnstone	MI	MI	1978
BIRD	<i>Arenaria interpres</i>	Ruddy turnstone	MI	MI	1979
BIRD	<i>Arenaria interpres</i>	Ruddy turnstone	MI	MI	1980
BIRD	<i>Arenaria interpres</i>	Ruddy turnstone	MI	MI	1981
BIRD	<i>Arenaria interpres</i>	ruddy turnstone	MI	MI	1982
BIRD	<i>Arenaria interpres</i>	Ruddy turnstone	MI	MI	1998
BIRD	<i>Arenaria interpres</i>	Ruddy turnstone	MI	MI	1999

BIRD	<i>Arenaria interpres</i>	Ruddy turnstone	MI	MI	2000
BIRD	<i>Arenaria interpres</i>	Ruddy turnstone	MI	MI	2001
BIRD	<i>Arenaria interpres</i>	Ruddy turnstone	MI	MI	2002
BIRD	<i>Arenaria interpres</i>	Ruddy turnstone	MI	MI	2003
BIRD	<i>Arenaria interpres</i>	Ruddy turnstone	MI	MI	2004
BIRD	<i>Arenaria interpres</i>	Ruddy turnstone	MI	MI	2005
BIRD	<i>Arenaria interpres</i>	Ruddy turnstone	MI	MI	2006
BIRD	<i>Arenaria interpres</i>	Ruddy turnstone	MI	MI	2007
BIRD	<i>Arenaria interpres</i>	Ruddy turnstone	MI	MI	2008
BIRD	<i>Arenaria interpres</i>	Ruddy turnstone	MI	MI	2009
BIRD	<i>Arenaria interpres</i>	Ruddy turnstone	MI	MI	2010
BIRD	<i>Arenaria interpres</i>	Ruddy turnstone	MI	MI	2011
BIRD	<i>Arenaria interpres</i>	Ruddy turnstone	MI	MI	2012
BIRD	<i>Arenaria interpres</i>	Ruddy turnstone	MI	MI	2013
BIRD	<i>Arenaria interpres</i>	Ruddy turnstone	MI	MI	2014
BIRD	<i>Arenaria interpres</i>	Ruddy turnstone	MI	MI	2015
BIRD	<i>Arenaria interpres</i>	Ruddy turnstone	MI	MI	2017
BIRD	<i>Bulweria bulwerii</i>	Bulwer's petrel	MI	MI	2000
BIRD	<i>Calidris acuminata</i>	sharp-tailed sandpiper	MI	MI	1944
BIRD	<i>Calidris acuminata</i>	Sharp-tailed sandpiper	MI	MI	1981
BIRD	<i>Calidris acuminata</i>	Sharp-tailed sandpiper	MI	MI	1998
BIRD	<i>Calidris acuminata</i>	Sharp-tailed sandpiper	MI	MI	1999
BIRD	<i>Calidris acuminata</i>	Sharp-tailed sandpiper	MI	MI	2000
BIRD	<i>Calidris acuminata</i>	Sharp-tailed sandpiper	MI	MI	2001
BIRD	<i>Calidris acuminata</i>	Sharp-tailed sandpiper	MI	MI	2002
BIRD	<i>Calidris acuminata</i>	Sharp-tailed sandpiper	MI	MI	2003
BIRD	<i>Calidris acuminata</i>	Sharp-tailed sandpiper	MI	MI	2004
BIRD	<i>Calidris acuminata</i>	Sharp-tailed sandpiper	MI	MI	2005
BIRD	<i>Calidris acuminata</i>	Sharp-tailed sandpiper	MI	MI	2006
BIRD	<i>Calidris acuminata</i>	Sharp-tailed sandpiper	MI	MI	2007
BIRD	<i>Calidris acuminata</i>	Sharp-tailed sandpiper	MI	MI	2008
BIRD	<i>Calidris acuminata</i>	Sharp-tailed sandpiper	MI	MI	2009
BIRD	<i>Calidris acuminata</i>	Sharp-tailed sandpiper	MI	MI	2010
BIRD	<i>Calidris acuminata</i>	Sharp-tailed sandpiper	MI	MI	2011
BIRD	<i>Calidris acuminata</i>	Sharp-tailed sandpiper	MI	MI	2012
BIRD	<i>Calidris acuminata</i>	Sharp-tailed sandpiper	MI	MI	2013
BIRD	<i>Calidris acuminata</i>	Sharp-tailed sandpiper	MI	MI	2014
BIRD	<i>Calidris acuminata</i>	Sharp-tailed sandpiper	MI	MI	2015
BIRD	<i>Calidris alba</i>	sanderling	MI	MI	1903
BIRD	<i>Calidris alba</i>	sanderling	MI	MI	1978
BIRD	<i>Calidris alba</i>	sanderling	MI	MI	1979
BIRD	<i>Calidris alba</i>	sanderling	MI	MI	1981
BIRD	<i>Calidris alba</i>	sanderling	MI	MI	1982
BIRD	<i>Calidris alba</i>	sanderling	MI	MI	1999
BIRD	<i>Calidris alba</i>	sanderling	MI	MI	2000
BIRD	<i>Calidris alba</i>	sanderling	MI	MI	2001
BIRD	<i>Calidris alba</i>	sanderling	MI	MI	2002
BIRD	<i>Calidris alba</i>	sanderling	MI	MI	2003
BIRD	<i>Calidris alba</i>	sanderling	MI	MI	2004
BIRD	<i>Calidris alba</i>	sanderling	MI	MI	2005
BIRD	<i>Calidris alba</i>	sanderling	MI	MI	2006
BIRD	<i>Calidris alba</i>	Sanderling	MI	MI	2007
BIRD	<i>Calidris alba</i>	sanderling	MI	MI	2008
BIRD	<i>Calidris alba</i>	sanderling	MI	MI	2009
BIRD	<i>Calidris alba</i>	Sanderling	MI	MI	2011
BIRD	<i>Calidris alba</i>	Sanderling	MI	MI	2012
BIRD	<i>Calidris alba</i>	Sanderling	MI	MI	2013
BIRD	<i>Calidris alba</i>	Sanderling	MI	MI	2014
BIRD	<i>Calidris alba</i>	Sanderling	MI	MI	2015
BIRD	<i>Calidris canutus</i>	Red knot	EN	EN	0
BIRD	<i>Calidris canutus</i>	Red knot	EN	EN	1900
BIRD	<i>Calidris canutus</i>	Red knot	EN	EN	1961
BIRD	<i>Calidris canutus</i>	Red knot	EN	EN	1978
BIRD	<i>Calidris canutus</i>	Red knot	EN	EN	1979
BIRD	<i>Calidris canutus</i>	Red knot	EN	EN	1981
BIRD	<i>Calidris canutus</i>	Red knot	EN	EN	1982
BIRD	<i>Calidris canutus</i>	Red knot	EN	EN	1992
BIRD	<i>Calidris canutus</i>	Red knot	EN	EN	1998
BIRD	<i>Calidris canutus</i>	Red knot	EN	EN	1999
BIRD	<i>Calidris canutus</i>	Red knot	EN	EN	2000

[illegible]

BIRD	<i>Calidris ruficollis</i>	Red-necked stint	MI	MI	2009
BIRD	<i>Calidris ruficollis</i>	Red-necked stint	MI	MI	2010
BIRD	<i>Calidris ruficollis</i>	Red-necked stint	MI	MI	2011
BIRD	<i>Calidris ruficollis</i>	Red-necked stint	MI	MI	2012
BIRD	<i>Calidris ruficollis</i>	Red-necked stint	MI	MI	2013
BIRD	<i>Calidris ruficollis</i>	Red-necked stint	MI	MI	2014
BIRD	<i>Calidris ruficollis</i>	Red-necked stint	MI	MI	2015
BIRD	<i>Calidris ruficollis</i>	Red-necked stint	MI	MI	2016
BIRD	<i>Calidris ruficollis</i>	Red-necked stint	MI	MI	2017
BIRD	<i>Calidris subminuta</i>	Long-toed Stint	MI	MI	1998
BIRD	<i>Calidris subminuta</i>	Long-toed Stint	MI	MI	1999
BIRD	<i>Calidris subminuta</i>	Long-toed Stint	MI	MI	2000
BIRD	<i>Calidris subminuta</i>	Long-toed Stint	MI	MI	2001
BIRD	<i>Calidris subminuta</i>	Long-toed Stint	MI	MI	2002
BIRD	<i>Calidris subminuta</i>	Long-toed Stint	MI	MI	2003
BIRD	<i>Calidris subminuta</i>	Long-toed Stint	MI	MI	2004
BIRD	<i>Calidris subminuta</i>	Long-toed Stint	MI	MI	2005
BIRD	<i>Calidris subminuta</i>	Long-toed Stint	MI	MI	2006
BIRD	<i>Calidris subminuta</i>	Long-toed Stint	MI	MI	2007
BIRD	<i>Calidris subminuta</i>	Long-toed Stint	MI	MI	2008
BIRD	<i>Calidris subminuta</i>	Long-toed Stint	MI	MI	2009
BIRD	<i>Calidris subminuta</i>	Long-toed Stint	MI	MI	2010
BIRD	<i>Calidris subminuta</i>	Long-toed Stint	MI	MI	2011
BIRD	<i>Calidris subminuta</i>	Long-toed Stint	MI	MI	2012
BIRD	<i>Calidris subminuta</i>	Long-toed Stint	MI	MI	2013
BIRD	<i>Calidris subminuta</i>	Long-toed Stint	MI	MI	2014
BIRD	<i>Calidris subminuta</i>	Long-toed Stint	MI	MI	2015
BIRD	<i>Calidris tenuirostris</i>	Great knot	CR	CR	1900
BIRD	<i>Calidris tenuirostris</i>	great knot	CR	CR	1971
BIRD	<i>Calidris tenuirostris</i>	Great knot	CR	CR	1981
BIRD	<i>Calidris tenuirostris</i>	great knot	CR	CR	1982
BIRD	<i>Calidris tenuirostris</i>	Great knot	CR	CR	1992
BIRD	<i>Calidris tenuirostris</i>	Great knot	CR	CR	1996
BIRD	<i>Calidris tenuirostris</i>	Great knot	CR	CR	1998
BIRD	<i>Calidris tenuirostris</i>	Great knot	CR	CR	1999
BIRD	<i>Calidris tenuirostris</i>	Great knot	CR	CR	2000
BIRD	<i>Calidris tenuirostris</i>	Great knot	CR	CR	2001
BIRD	<i>Calidris tenuirostris</i>	Great knot	CR	CR	2002
BIRD	<i>Calidris tenuirostris</i>	Great knot	CR	CR	2003
BIRD	<i>Calidris tenuirostris</i>	Great knot	CR	CR	2004
BIRD	<i>Calidris tenuirostris</i>	Great knot	CR	CR	2005
BIRD	<i>Calidris tenuirostris</i>	Great knot	CR	CR	2006
BIRD	<i>Calidris tenuirostris</i>	Great knot	CR	CR	2007
BIRD	<i>Calidris tenuirostris</i>	Great knot	CR	CR	2008
BIRD	<i>Calidris tenuirostris</i>	Great knot	CR	CR	2009
BIRD	<i>Calidris tenuirostris</i>	Great knot	CR	CR	2010
BIRD	<i>Calidris tenuirostris</i>	Great knot	CR	CR	2011
BIRD	<i>Calidris tenuirostris</i>	Great knot	CR	CR	2012
BIRD	<i>Calidris tenuirostris</i>	Great knot	CR	CR	2013
BIRD	<i>Calidris tenuirostris</i>	Great knot	CR	CR	2014
BIRD	<i>Calidris tenuirostris</i>	Great knot	CR	CR	2015
BIRD	<i>Calidris tenuirostris</i>	Great knot	CR	CR	2016
BIRD	<i>Calidris tenuirostris</i>	Great knot	CR	CR	2017
BIRD	<i>Calonectris leucomelas</i>	Streaked shearwater	MI	MI	1995
BIRD	<i>Calonectris leucomelas</i>	Streaked shearwater	MI	MI	1999
BIRD	<i>Calonectris leucomelas</i>	Streaked shearwater	MI	MI	2000
BIRD	<i>Cecropis daurica</i>	Red-rumped swallow	MI	MI	1999
BIRD	<i>Cecropis daurica</i>	Red-rumped swallow	MI	MI	2000
BIRD	<i>Cecropis daurica</i>	Red-rumped swallow	MI	MI	2015
BIRD	<i>Charadrius dubius</i>	little ringed plover	MI	MI	2004
BIRD	<i>Charadrius dubius</i>	Little Ringed Plover	MI	MI	2007
BIRD	<i>Charadrius dubius</i>	little ringed plover	MI	MI	2008
BIRD	<i>Charadrius dubius</i>	Little Ringed Plover	MI	MI	2013
BIRD	<i>Charadrius dubius</i>	Little Ringed Plover	MI	MI	2014
BIRD	<i>Charadrius dubius</i>	Little Ringed Plover	MI	MI	2015
BIRD	<i>Charadrius leschenaultii</i>	Greater sand plover, large sand plover	VU	MI	0
BIRD	<i>Charadrius leschenaultii</i>	Greater sand plover, large sand plover	VU	MI	1977
BIRD	<i>Charadrius leschenaultii</i>	Greater sand plover, large sand plover	VU	MI	1978

[illegible]

BIRD	<i>Charadrius mongolus</i>	Lesser Sand Plover	EN	EN	2013
BIRD	<i>Charadrius mongolus</i>	Lesser Sand Plover	EN	EN	2014
BIRD	<i>Charadrius mongolus</i>	Lesser Sand Plover	EN	EN	2015
BIRD	<i>Charadrius mongolus</i>	Lesser Sand Plover	EN	EN	2016
BIRD	<i>Charadrius mongolus</i>	Lesser Sand Plover	EN	EN	2017
BIRD	<i>Charadrius veredus</i>	oriental plover	MI	MI	1977
BIRD	<i>Charadrius veredus</i>	oriental plover	MI	MI	1979
BIRD	<i>Charadrius veredus</i>	oriental plover	MI	MI	1981
BIRD	<i>Charadrius veredus</i>	oriental plover	MI	MI	1998
BIRD	<i>Charadrius veredus</i>	oriental plover	MI	MI	1999
BIRD	<i>Charadrius veredus</i>	oriental plover	MI	MI	2000
BIRD	<i>Charadrius veredus</i>	oriental plover	MI	MI	2001
BIRD	<i>Charadrius veredus</i>	oriental plover	MI	MI	2002
BIRD	<i>Charadrius veredus</i>	oriental plover	MI	MI	2003
BIRD	<i>Charadrius veredus</i>	oriental plover	MI	MI	2004
BIRD	<i>Charadrius veredus</i>	oriental plover	MI	MI	2005
BIRD	<i>Charadrius veredus</i>	oriental plover	MI	MI	2006
BIRD	<i>Charadrius veredus</i>	Oriental Plover	MI	MI	2007
BIRD	<i>Charadrius veredus</i>	oriental plover	MI	MI	2008
BIRD	<i>Charadrius veredus</i>	oriental plover	MI	MI	2009
BIRD	<i>Charadrius veredus</i>	oriental plover	MI	MI	2010
BIRD	<i>Charadrius veredus</i>	Oriental Plover	MI	MI	2011
BIRD	<i>Charadrius veredus</i>	Oriental Plover	MI	MI	2012
BIRD	<i>Charadrius veredus</i>	Oriental Plover	MI	MI	2013
BIRD	<i>Charadrius veredus</i>	Oriental Plover	MI	MI	2014
BIRD	<i>Charadrius veredus</i>	Oriental Plover	MI	MI	2015
BIRD	<i>Chlidonias leucopterus</i>	White-winged black tern, white-winged tern	MI	MI	0
BIRD	<i>Chlidonias leucopterus</i>	White-winged black tern, white-winged tern	MI	MI	1998
BIRD	<i>Chlidonias leucopterus</i>	White-winged black tern, white-winged tern	MI	MI	1999
BIRD	<i>Chlidonias leucopterus</i>	White-winged black tern, white-winged tern	MI	MI	2000
BIRD	<i>Chlidonias leucopterus</i>	White-winged black tern, white-winged tern	MI	MI	2001
BIRD	<i>Chlidonias leucopterus</i>	White-winged black tern, white-winged tern	MI	MI	2002
BIRD	<i>Chlidonias leucopterus</i>	White-winged black tern, white-winged tern	MI	MI	2003
BIRD	<i>Chlidonias leucopterus</i>	White-winged black tern, white-winged tern	MI	MI	2004
BIRD	<i>Chlidonias leucopterus</i>	White-winged black tern, white-winged tern	MI	MI	2005
BIRD	<i>Chlidonias leucopterus</i>	White-winged black tern, white-winged tern	MI	MI	2006
BIRD	<i>Chlidonias leucopterus</i>	White-winged black tern, white-winged tern	MI	MI	2007
BIRD	<i>Chlidonias leucopterus</i>	White-winged black tern, white-winged tern	MI	MI	2008
BIRD	<i>Chlidonias leucopterus</i>	White-winged black tern, white-winged tern	MI	MI	2009
BIRD	<i>Chlidonias leucopterus</i>	White-winged black tern, white-winged tern	MI	MI	2010
BIRD	<i>Chlidonias leucopterus</i>	White-winged black tern, white-winged tern	MI	MI	2011
BIRD	<i>Chlidonias leucopterus</i>	White-winged black tern, white-winged tern	MI	MI	2012
BIRD	<i>Chlidonias leucopterus</i>	White-winged black tern, white-winged tern	MI	MI	2013
BIRD	<i>Chlidonias leucopterus</i>	White-winged black tern, white-winged tern	MI	MI	2014
BIRD	<i>Chlidonias leucopterus</i>	White-winged black tern, white-winged tern	MI	MI	2015
BIRD	<i>Cuculus optatus</i>	Oriental cuckoo	MI	MI	0
BIRD	<i>Cuculus optatus</i>	Oriental cuckoo	MI	MI	1999
BIRD	<i>Cuculus optatus</i>	Oriental cuckoo	MI	MI	2003
BIRD	<i>Cuculus optatus</i>	Oriental cuckoo	MI	MI	2008
BIRD	<i>Cuculus optatus</i>	Oriental cuckoo	MI	MI	2009

BIRD	<i>Cuculus optatus</i>	Oriental cuckoo	MI	MI	2012
BIRD	<i>Cuculus optatus</i>	Oriental cuckoo	MI	MI	2015
BIRD	<i>Elanus scriptus</i>	Letter-winged kite	P4		1980
BIRD	<i>Elanus scriptus</i>	Letter-winged kite	P4		1994
BIRD	<i>Erythrotriorchis radiatus</i>	red goshawk	VU	VU	1976
BIRD	<i>Erythrura gouldiae</i>	Gouldian finch	P4	EN	0
BIRD	<i>Falco hypoleucos</i>	grey falcon	VU		1901
BIRD	<i>Falco hypoleucos</i>	grey falcon	VU		1909
BIRD	<i>Falco hypoleucos</i>	grey falcon	VU		1997
BIRD	<i>Falco hypoleucos</i>	Grey falcon	VU		1999
BIRD	<i>Falco hypoleucos</i>	grey falcon	VU		2002
BIRD	<i>Falco hypoleucos</i>	Grey falcon	VU		2014
BIRD	<i>Falco peregrinus</i>	peregrine falcon	OS		1909
BIRD	<i>Falco peregrinus</i>	Peregrine falcon	OS		1980
BIRD	<i>Falco peregrinus</i>	peregrine falcon	OS		1995
BIRD	<i>Falco peregrinus</i>	peregrine falcon	OS		1996
BIRD	<i>Falco peregrinus</i>	Peregrine falcon	OS		1998
BIRD	<i>Falco peregrinus</i>	Peregrine falcon	OS		1999
BIRD	<i>Falco peregrinus</i>	Peregrine falcon	OS		2000
BIRD	<i>Falco peregrinus</i>	Peregrine falcon	OS		2001
BIRD	<i>Falco peregrinus</i>	Peregrine falcon	OS		2003
BIRD	<i>Falco peregrinus</i>	Peregrine falcon	OS		2005
BIRD	<i>Falco peregrinus</i>	Peregrine falcon	OS		2007
BIRD	<i>Falco peregrinus</i>	Peregrine falcon	OS		2009
BIRD	<i>Falco peregrinus</i>	Peregrine falcon	OS		2011
BIRD	<i>Falco peregrinus</i>	Peregrine falcon	OS		2012
BIRD	<i>Falco peregrinus</i>	Peregrine falcon	OS		2013
BIRD	<i>Falco peregrinus</i>	Peregrine falcon	OS		2014
BIRD	<i>Falco peregrinus</i>	Peregrine falcon	OS		2015
BIRD	<i>Fregata ariel</i>	lesser frigatebird	MI	MI	1911
BIRD	<i>Fregata ariel</i>	Lesser frigatebird	MI	MI	1977
BIRD	<i>Fregata ariel</i>	Lesser frigatebird	MI	MI	1978
BIRD	<i>Fregata ariel</i>	Lesser frigatebird	MI	MI	1979
BIRD	<i>Fregata ariel</i>	Lesser frigatebird	MI	MI	1980
BIRD	<i>Fregata ariel</i>	Lesser frigatebird	MI	MI	1981
BIRD	<i>Fregata ariel</i>	Lesser frigatebird	MI	MI	1998
BIRD	<i>Fregata ariel</i>	Lesser frigatebird	MI	MI	1999
BIRD	<i>Fregata ariel</i>	Lesser frigatebird	MI	MI	2000
BIRD	<i>Fregata ariel</i>	Lesser frigatebird	MI	MI	2002
BIRD	<i>Fregata ariel</i>	Lesser frigatebird	MI	MI	2003
BIRD	<i>Fregata ariel</i>	Lesser frigatebird	MI	MI	2005
BIRD	<i>Fregata ariel</i>	Lesser frigatebird	MI	MI	2006
BIRD	<i>Fregata ariel</i>	Lesser frigatebird	MI	MI	2007
BIRD	<i>Fregata ariel</i>	Lesser frigatebird	MI	MI	2008
BIRD	<i>Fregata ariel</i>	Lesser frigatebird	MI	MI	2009
BIRD	<i>Fregata ariel</i>	Lesser frigatebird	MI	MI	2010
BIRD	<i>Fregata ariel</i>	Lesser frigatebird	MI	MI	2011
BIRD	<i>Fregata ariel</i>	Lesser frigatebird	MI	MI	2012
BIRD	<i>Fregata ariel</i>	Lesser frigatebird	MI	MI	2013
BIRD	<i>Fregata ariel</i>	Lesser frigatebird	MI	MI	2014
BIRD	<i>Fregata ariel</i>	Lesser frigatebird	MI	MI	2015
BIRD	<i>Fregata ariel</i>	Lesser frigatebird	MI	MI	2017
BIRD	<i>Fregata ariel</i>	Lesser frigatebird	MI	MI	2018
BIRD	<i>Fregata minor</i>	Great frigatebird	MI	MI	2012
BIRD	<i>Gallinago megala</i>	Swinhoe's snipe	MI	MI	1900
BIRD	<i>Gallinago megala</i>	Swinhoe's snipe	MI	MI	1999
BIRD	<i>Gallinago megala</i>	Swinhoe's snipe	MI	MI	2000
BIRD	<i>Gallinago megala</i>	Swinhoe's snipe	MI	MI	2004
BIRD	<i>Gallinago megala</i>	Swinhoe's snipe	MI	MI	2009
BIRD	<i>Gallinago megala</i>	Swinhoe's snipe	MI	MI	2012
BIRD	<i>Gallinago stenura</i>	Pin-tailed snipe	MI	MI	2004
BIRD	<i>Gallinago stenura</i>	Pin-tailed snipe	MI	MI	2011
BIRD	<i>Gelochelidon nilotica</i>	Gull-billed tern	MI	MI	1978
BIRD	<i>Gelochelidon nilotica</i>	Gull-billed tern	MI	MI	1979
BIRD	<i>Gelochelidon nilotica</i>	Gull-billed tern	MI	MI	1981
BIRD	<i>Gelochelidon nilotica</i>	Gull-billed tern	MI	MI	1982
BIRD	<i>Gelochelidon nilotica</i>	Gull-billed tern	MI	MI	1998
BIRD	<i>Gelochelidon nilotica</i>	Gull-billed tern	MI	MI	1999
BIRD	<i>Gelochelidon nilotica</i>	Gull-billed tern	MI	MI	2000
BIRD	<i>Gelochelidon nilotica</i>	Gull-billed tern	MI	MI	2001

BIRD	<i>Gelochelidon nilotica</i>	Gull-billed tern	MI	MI	2002
BIRD	<i>Gelochelidon nilotica</i>	Gull-billed tern	MI	MI	2003
BIRD	<i>Gelochelidon nilotica</i>	Gull-billed tern	MI	MI	2004
BIRD	<i>Gelochelidon nilotica</i>	Gull-billed tern	MI	MI	2005
BIRD	<i>Gelochelidon nilotica</i>	Gull-billed tern	MI	MI	2006
BIRD	<i>Gelochelidon nilotica</i>	Gull-billed tern	MI	MI	2007
BIRD	<i>Gelochelidon nilotica</i>	Gull-billed tern	MI	MI	2008
BIRD	<i>Gelochelidon nilotica</i>	Gull-billed tern	MI	MI	2009
BIRD	<i>Gelochelidon nilotica</i>	Gull-billed tern	MI	MI	2012
BIRD	<i>Gelochelidon nilotica</i>	Gull-billed tern	MI	MI	2016
BIRD	<i>Gelochelidon nilotica</i>	Gull-billed tern	MI	MI	2017
BIRD	<i>Glareola maldivarum</i>	Oriental pratincole	MI	MI	1968
BIRD	<i>Glareola maldivarum</i>	Oriental pratincole	MI	MI	1981
BIRD	<i>Glareola maldivarum</i>	Oriental pratincole	MI	MI	1998
BIRD	<i>Glareola maldivarum</i>	Oriental pratincole	MI	MI	1999
BIRD	<i>Glareola maldivarum</i>	Oriental pratincole	MI	MI	2000
BIRD	<i>Glareola maldivarum</i>	Oriental pratincole	MI	MI	2001
BIRD	<i>Glareola maldivarum</i>	Oriental pratincole	MI	MI	2002
BIRD	<i>Glareola maldivarum</i>	Oriental pratincole	MI	MI	2003
BIRD	<i>Glareola maldivarum</i>	Oriental pratincole	MI	MI	2004
BIRD	<i>Glareola maldivarum</i>	Oriental pratincole	MI	MI	2006
BIRD	<i>Glareola maldivarum</i>	Oriental pratincole	MI	MI	2007
BIRD	<i>Glareola maldivarum</i>	Oriental pratincole	MI	MI	2008
BIRD	<i>Glareola maldivarum</i>	Oriental pratincole	MI	MI	2009
BIRD	<i>Glareola maldivarum</i>	Oriental pratincole	MI	MI	2010
BIRD	<i>Glareola maldivarum</i>	Oriental pratincole	MI	MI	2012
BIRD	<i>Glareola maldivarum</i>	Oriental pratincole	MI	MI	2013
BIRD	<i>Glareola maldivarum</i>	Oriental pratincole	MI	MI	2014
BIRD	<i>Glareola maldivarum</i>	Oriental pratincole	MI	MI	2015
BIRD	<i>Hirundapus caudacutus</i>	White-throated needletail	MI	MI	2000
BIRD	<i>Hirundo rustica</i>	Barn swallow	MI	MI	1978
BIRD	<i>Hirundo rustica</i>	Barn swallow	MI	MI	1979
BIRD	<i>Hirundo rustica</i>	Barn swallow	MI	MI	1998
BIRD	<i>Hirundo rustica</i>	Barn swallow	MI	MI	1999
BIRD	<i>Hirundo rustica</i>	Barn swallow	MI	MI	2000
BIRD	<i>Hirundo rustica</i>	Barn swallow	MI	MI	2001
BIRD	<i>Hirundo rustica</i>	Barn swallow	MI	MI	2002
BIRD	<i>Hirundo rustica</i>	Barn swallow	MI	MI	2003
BIRD	<i>Hirundo rustica</i>	Barn swallow	MI	MI	2004
BIRD	<i>Hirundo rustica</i>	Barn swallow	MI	MI	2005
BIRD	<i>Hirundo rustica</i>	Barn swallow	MI	MI	2006
BIRD	<i>Hirundo rustica</i>	Barn swallow	MI	MI	2007
BIRD	<i>Hirundo rustica</i>	Barn swallow	MI	MI	2008
BIRD	<i>Hirundo rustica</i>	Barn swallow	MI	MI	2009
BIRD	<i>Hirundo rustica</i>	Barn swallow	MI	MI	2010
BIRD	<i>Hirundo rustica</i>	Barn swallow	MI	MI	2011
BIRD	<i>Hirundo rustica</i>	Barn swallow	MI	MI	2012
BIRD	<i>Hirundo rustica</i>	Barn swallow	MI	MI	2013
BIRD	<i>Hirundo rustica</i>	Barn swallow	MI	MI	2014
BIRD	<i>Hirundo rustica</i>	Barn swallow	MI	MI	2015
BIRD	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI	0
BIRD	<i>Hydroprogne caspia</i>	Caspian tern	MI	MI	1911
BIRD	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI	1977
BIRD	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI	1978
BIRD	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI	1979
BIRD	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI	1980
BIRD	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI	1981
BIRD	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI	1998
BIRD	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI	1999
BIRD	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI	2000
BIRD	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI	2001
BIRD	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI	2002
BIRD	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI	2003
BIRD	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI	2004
BIRD	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI	2005
BIRD	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI	2006
BIRD	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI	2007
BIRD	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI	2008
BIRD	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI	2009
BIRD	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI	2011

BIRD	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI	2012
BIRD	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI	2013
BIRD	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI	2014
BIRD	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI	2015
BIRD	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI	2016
BIRD	<i>Hydroprogne caspia</i>	Caspian Tern	MI	MI	2017
BIRD	<i>Ixobrychus dubius</i>	Australian little bittern	P4		1900
BIRD	<i>Ixobrychus dubius</i>	Australian little bittern	P4		2001
BIRD	<i>Limicola falcinellus</i>	Broad-billed sandpiper	MI	MI	1903
BIRD	<i>Limicola falcinellus</i>	Broad-billed sandpiper	MI	MI	1998
BIRD	<i>Limicola falcinellus</i>	Broad-billed sandpiper	MI	MI	1999
BIRD	<i>Limicola falcinellus</i>	Broad-billed sandpiper	MI	MI	2000
BIRD	<i>Limicola falcinellus</i>	Broad-billed sandpiper	MI	MI	2001
BIRD	<i>Limicola falcinellus</i>	Broad-billed sandpiper	MI	MI	2002
BIRD	<i>Limicola falcinellus</i>	Broad-billed sandpiper	MI	MI	2003
BIRD	<i>Limicola falcinellus</i>	Broad-billed sandpiper	MI	MI	2004
BIRD	<i>Limicola falcinellus</i>	Broad-billed sandpiper	MI	MI	2005
BIRD	<i>Limicola falcinellus</i>	Broad-billed sandpiper	MI	MI	2006
BIRD	<i>Limicola falcinellus</i>	Broad-billed sandpiper	MI	MI	2007
BIRD	<i>Limicola falcinellus</i>	Broad-billed sandpiper	MI	MI	2009
BIRD	<i>Limicola falcinellus</i>	Broad-billed sandpiper	MI	MI	2010
BIRD	<i>Limicola falcinellus</i>	Broad-billed sandpiper	MI	MI	2011
BIRD	<i>Limicola falcinellus</i>	Broad-billed sandpiper	MI	MI	2012
BIRD	<i>Limicola falcinellus</i>	Broad-billed sandpiper	MI	MI	2013
BIRD	<i>Limicola falcinellus</i>	Broad-billed sandpiper	MI	MI	2014
BIRD	<i>Limicola falcinellus</i>	Broad-billed sandpiper	MI	MI	2015
BIRD	<i>Limicola falcinellus</i>	Broad-billed sandpiper	MI	MI	2016
BIRD	<i>Limnodromus semipalmatus</i>	Asian dowitcher	MI	MI	1993
BIRD	<i>Limnodromus semipalmatus</i>	Asian dowitcher	MI	MI	1997
BIRD	<i>Limnodromus semipalmatus</i>	Asian dowitcher	MI	MI	1998
BIRD	<i>Limnodromus semipalmatus</i>	Asian dowitcher	MI	MI	1999
BIRD	<i>Limnodromus semipalmatus</i>	Asian dowitcher	MI	MI	2000
BIRD	<i>Limnodromus semipalmatus</i>	Asian dowitcher	MI	MI	2001
BIRD	<i>Limnodromus semipalmatus</i>	Asian dowitcher	MI	MI	2002
BIRD	<i>Limnodromus semipalmatus</i>	Asian dowitcher	MI	MI	2003
BIRD	<i>Limnodromus semipalmatus</i>	Asian dowitcher	MI	MI	2004
BIRD	<i>Limnodromus semipalmatus</i>	Asian dowitcher	MI	MI	2006
BIRD	<i>Limnodromus semipalmatus</i>	Asian dowitcher	MI	MI	2007
BIRD	<i>Limnodromus semipalmatus</i>	Asian dowitcher	MI	MI	2008
BIRD	<i>Limnodromus semipalmatus</i>	Asian dowitcher	MI	MI	2009
BIRD	<i>Limnodromus semipalmatus</i>	Asian dowitcher	MI	MI	2010
BIRD	<i>Limnodromus semipalmatus</i>	Asian dowitcher	MI	MI	2011
BIRD	<i>Limnodromus semipalmatus</i>	Asian dowitcher	MI	MI	2012
BIRD	<i>Limnodromus semipalmatus</i>	Asian dowitcher	MI	MI	2013
BIRD	<i>Limnodromus semipalmatus</i>	Asian dowitcher	MI	MI	2014
BIRD	<i>Limnodromus semipalmatus</i>	Asian dowitcher	MI	MI	2015
BIRD	<i>Limosa lapponica</i>	Bar-tailed godwit	MI	MI	1977
BIRD	<i>Limosa lapponica</i>	Bar-tailed godwit	MI	MI	1978
BIRD	<i>Limosa lapponica</i>	Bar-tailed godwit	MI	MI	1979
BIRD	<i>Limosa lapponica</i>	Bar-tailed godwit	MI	MI	1980

BIRD	<i>Limosa lapponica</i>	Bar-tailed godwit	MI	MI	1981
BIRD	<i>Limosa lapponica</i>	bar-tailed godwit	MI	MI	1982
BIRD	<i>Limosa lapponica</i>	Bar-tailed godwit	MI	MI	1998
BIRD	<i>Limosa lapponica</i>	Bar-tailed godwit	MI	MI	1999
BIRD	<i>Limosa lapponica</i>	Bar-tailed godwit	MI	MI	2000
BIRD	<i>Limosa lapponica</i>	Bar-tailed godwit	MI	MI	2001
BIRD	<i>Limosa lapponica</i>	Bar-tailed godwit	MI	MI	2002
BIRD	<i>Limosa lapponica</i>	Bar-tailed godwit	MI	MI	2003
BIRD	<i>Limosa lapponica</i>	Bar-tailed godwit	MI	MI	2004
BIRD	<i>Limosa lapponica</i>	Bar-tailed godwit	MI	MI	2005
BIRD	<i>Limosa lapponica</i>	Bar-tailed godwit	MI	MI	2006
BIRD	<i>Limosa lapponica</i>	Bar-tailed godwit	MI	MI	2007
BIRD	<i>Limosa lapponica</i>	Bar-tailed godwit	MI	MI	2008
BIRD	<i>Limosa lapponica</i>	Bar-tailed godwit	MI	MI	2009
BIRD	<i>Limosa lapponica</i>	Bar-tailed godwit	MI	MI	2010
BIRD	<i>Limosa lapponica</i>	Bar-tailed godwit	MI	MI	2011
BIRD	<i>Limosa lapponica</i>	Bar-tailed godwit	MI	MI	2012
BIRD	<i>Limosa lapponica</i>	Bar-tailed godwit	MI	MI	2013
BIRD	<i>Limosa lapponica</i>	Bar-tailed godwit	MI	MI	2014
BIRD	<i>Limosa lapponica</i>	Bar-tailed godwit	MI	MI	2015
BIRD	<i>Limosa lapponica</i>	Bar-tailed godwit	MI	MI	2016
BIRD	<i>Limosa lapponica</i>	Bar-tailed godwit	MI	MI	2017
BIRD	<i>Limosa lapponica menzbieri</i>	Bar-tailed godwit (northern Siberian)	CR	CR	1900
BIRD	<i>Limosa lapponica menzbieri</i>	Bar-tailed godwit (northern Siberian)	CR	CR	1962
BIRD	<i>Limosa lapponica menzbieri</i>	Bar-tailed godwit (northern Siberian)	CR	CR	1997
BIRD	<i>Limosa lapponica menzbieri</i>	Bar-tailed godwit (northern Siberian)	CR	CR	2001
BIRD	<i>Limosa lapponica menzbieri</i>	Bar-tailed godwit (northern Siberian)	CR	CR	2002
BIRD	<i>Limosa lapponica menzbieri</i>	Bar-tailed godwit (northern Siberian)	CR	CR	2003
BIRD	<i>Limosa lapponica menzbieri</i>	Bar-tailed godwit (northern Siberian)	CR	CR	2009
BIRD	<i>Limosa limosa</i>	Black-tailed godwit	MI	MI	1900
BIRD	<i>Limosa limosa</i>	Black-tailed godwit	MI	MI	1979
BIRD	<i>Limosa limosa</i>	Black-tailed godwit	MI	MI	1981
BIRD	<i>Limosa limosa</i>	Black-tailed godwit	MI	MI	1994
BIRD	<i>Limosa limosa</i>	Black-tailed godwit	MI	MI	1998
BIRD	<i>Limosa limosa</i>	Black-tailed godwit	MI	MI	1999
BIRD	<i>Limosa limosa</i>	Black-tailed godwit	MI	MI	2000
BIRD	<i>Limosa limosa</i>	Black-tailed godwit	MI	MI	2001
BIRD	<i>Limosa limosa</i>	Black-tailed godwit	MI	MI	2002
BIRD	<i>Limosa limosa</i>	Black-tailed godwit	MI	MI	2003
BIRD	<i>Limosa limosa</i>	Black-tailed godwit	MI	MI	2004
BIRD	<i>Limosa limosa</i>	Black-tailed godwit	MI	MI	2005
BIRD	<i>Limosa limosa</i>	Black-tailed godwit	MI	MI	2006
BIRD	<i>Limosa limosa</i>	Black-tailed godwit	MI	MI	2007
BIRD	<i>Limosa limosa</i>	Black-tailed godwit	MI	MI	2008
BIRD	<i>Limosa limosa</i>	Black-tailed godwit	MI	MI	2009
BIRD	<i>Limosa limosa</i>	Black-tailed godwit	MI	MI	2010
BIRD	<i>Limosa limosa</i>	Black-tailed godwit	MI	MI	2011
BIRD	<i>Limosa limosa</i>	Black-tailed godwit	MI	MI	2012
BIRD	<i>Limosa limosa</i>	Black-tailed godwit	MI	MI	2013
BIRD	<i>Limosa limosa</i>	Black-tailed godwit	MI	MI	2014
BIRD	<i>Limosa limosa</i>	Black-tailed godwit	MI	MI	2015
BIRD	<i>Limosa limosa</i>	Black-tailed godwit	MI	MI	2016
BIRD	<i>Limosa limosa</i>	Black-tailed godwit	MI	MI	2017
BIRD	<i>Macronectes halli</i>	Northern giant petrel	MI	MI	2011
BIRD	<i>Macrotis lagotis</i>	Bilby, dalgte, ninu	VU	VU	2018
BIRD	<i>Motacilla cinerea</i>	Grey wagtail	MI	MI	2012
BIRD	<i>Motacilla cinerea</i>	Grey wagtail	MI	MI	2015
BIRD	<i>Motacilla flava</i>	Yellow wagtail	MI	MI	1981
BIRD	<i>Motacilla flava</i>	Yellow wagtail	MI	MI	2002
BIRD	<i>Motacilla flava</i>	Yellow wagtail	MI	MI	2003
BIRD	<i>Numenius madagascariensis</i>	Eastern curlew	CR	CR	1978

BIRD	<i>Numenius madagascariensis</i>	Eastern curlew	CR	CR	1979
BIRD	<i>Numenius madagascariensis</i>	Eastern curlew	CR	CR	1980
BIRD	<i>Numenius madagascariensis</i>	Eastern curlew	CR	CR	1981
BIRD	<i>Numenius madagascariensis</i>	Eastern curlew	CR	CR	1998
BIRD	<i>Numenius madagascariensis</i>	Eastern curlew	CR	CR	1999
BIRD	<i>Numenius madagascariensis</i>	Eastern curlew	CR	CR	2000
BIRD	<i>Numenius madagascariensis</i>	Eastern curlew	CR	CR	2001
BIRD	<i>Numenius madagascariensis</i>	Eastern curlew	CR	CR	2002
BIRD	<i>Numenius madagascariensis</i>	Eastern curlew	CR	CR	2003
BIRD	<i>Numenius madagascariensis</i>	Eastern curlew	CR	CR	2004
BIRD	<i>Numenius madagascariensis</i>	Eastern curlew	CR	CR	2005
BIRD	<i>Numenius madagascariensis</i>	Eastern curlew	CR	CR	2006
BIRD	<i>Numenius madagascariensis</i>	Eastern curlew	CR	CR	2007
BIRD	<i>Numenius madagascariensis</i>	Eastern curlew	CR	CR	2008
BIRD	<i>Numenius madagascariensis</i>	Eastern curlew	CR	CR	2009
BIRD	<i>Numenius madagascariensis</i>	Eastern curlew	CR	CR	2010
BIRD	<i>Numenius madagascariensis</i>	Eastern curlew	CR	CR	2011
BIRD	<i>Numenius madagascariensis</i>	Eastern curlew	CR	CR	2012
BIRD	<i>Numenius madagascariensis</i>	Eastern curlew	CR	CR	2013
BIRD	<i>Numenius madagascariensis</i>	Eastern curlew	CR	CR	2014
BIRD	<i>Numenius madagascariensis</i>	Eastern curlew	CR	CR	2015
BIRD	<i>Numenius madagascariensis</i>	Eastern curlew	CR	CR	2016
BIRD	<i>Numenius madagascariensis</i>	Eastern curlew	CR	CR	2017
BIRD	<i>Numenius minutus</i>	Little curlew, little whimbrel	MI	MI	1977
BIRD	<i>Numenius minutus</i>	Little curlew, little whimbrel	MI	MI	1979
BIRD	<i>Numenius minutus</i>	Little curlew, little whimbrel	MI	MI	1980
BIRD	<i>Numenius minutus</i>	Little curlew, little whimbrel	MI	MI	1998
BIRD	<i>Numenius minutus</i>	Little curlew, little whimbrel	MI	MI	1999
BIRD	<i>Numenius minutus</i>	Little curlew, little whimbrel	MI	MI	2000
BIRD	<i>Numenius minutus</i>	Little curlew, little whimbrel	MI	MI	2001
BIRD	<i>Numenius minutus</i>	Little curlew, little whimbrel	MI	MI	2002
BIRD	<i>Numenius minutus</i>	Little curlew, little whimbrel	MI	MI	2003
BIRD	<i>Numenius minutus</i>	Little curlew, little whimbrel	MI	MI	2004
BIRD	<i>Numenius minutus</i>	Little curlew, little whimbrel	MI	MI	2005

BIRD	<i>Numenius minutus</i>	Little curlew, little whimbrel	MI	MI	2006
BIRD	<i>Numenius minutus</i>	Little curlew, little whimbrel	MI	MI	2007
BIRD	<i>Numenius minutus</i>	Little curlew, little whimbrel	MI	MI	2008
BIRD	<i>Numenius minutus</i>	Little curlew, little whimbrel	MI	MI	2009
BIRD	<i>Numenius minutus</i>	Little curlew, little whimbrel	MI	MI	2010
BIRD	<i>Numenius minutus</i>	Little curlew, little whimbrel	MI	MI	2011
BIRD	<i>Numenius minutus</i>	Little curlew, little whimbrel	MI	MI	2012
BIRD	<i>Numenius minutus</i>	Little curlew, little whimbrel	MI	MI	2013
BIRD	<i>Numenius minutus</i>	Little curlew, little whimbrel	MI	MI	2014
BIRD	<i>Numenius minutus</i>	Little curlew, little whimbrel	MI	MI	2015
BIRD	<i>Numenius minutus</i>	Little curlew, little whimbrel	MI	MI	2017
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	1977
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	1978
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	1979
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	1980
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	1981
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	1998
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	1999
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	2000
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	2001
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	2002
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	2003
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	2004
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	2005
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	2006
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	2007
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	2008
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	2009
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	2010
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	2011
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	2012
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	2013
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	2014
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	2015
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	2016
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	2017
BIRD	<i>Numenius phaeopus</i>	Whimbrel	MI	MI	2018
BIRD	<i>Oceanites oceanicus</i>	Wilson's storm-petrel	MI	MI	1949
BIRD	<i>Oceanites oceanicus</i>	Wilson's storm-petrel	MI	MI	1998
BIRD	<i>Oceanites oceanicus</i>	Wilson's storm-petrel	MI	MI	2001
BIRD	<i>Oceanites oceanicus</i>	Wilson's storm-petrel	MI	MI	2008
BIRD	<i>Oceanites oceanicus</i>	Wilson's storm-petrel	MI	MI	2012
BIRD	<i>Oceanites oceanicus</i>	Wilson's storm-petrel	MI	MI	2015
BIRD	<i>Onychoprion anaethetus</i>	Bridled tern	MI	MI	1998
BIRD	<i>Onychoprion anaethetus</i>	Bridled tern	MI	MI	1999
BIRD	<i>Onychoprion anaethetus</i>	Bridled tern	MI	MI	2000
BIRD	<i>Onychoprion anaethetus</i>	Bridled tern	MI	MI	2001
BIRD	<i>Onychoprion anaethetus</i>	Bridled tern	MI	MI	2003
BIRD	<i>Onychoprion anaethetus</i>	Bridled tern	MI	MI	2012
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	0
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	1900
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	1962
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	1977
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	1978
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	1979
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	1980
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	1981
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	1998
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	1999

BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	2000
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	2001
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	2002
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	2003
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	2004
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	2005
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	2006
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	2007
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	2008
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	2009
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	2011
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	2012
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	2013
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	2014
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	2015
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	2016
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	2017
BIRD	<i>Pandion cristatus</i>	Osprey, eastern osprey	MI	MI	2018
BIRD	<i>Phalaropus lobatus</i>	Red-necked phalarope	MI	MI	1999
BIRD	<i>Phalaropus lobatus</i>	Red-necked phalarope	MI	MI	2013
BIRD	<i>Philomachus pugnax</i>	Ruff (reeve)	MI	MI	1999
BIRD	<i>Philomachus pugnax</i>	Ruff (reeve)	MI	MI	2000
BIRD	<i>Philomachus pugnax</i>	Ruff (reeve)	MI	MI	2005
BIRD	<i>Philomachus pugnax</i>	Ruff (reeve)	MI	MI	2007
BIRD	<i>Philomachus pugnax</i>	Ruff (reeve)	MI	MI	2008
BIRD	<i>Philomachus pugnax</i>	Ruff (reeve)	MI	MI	2012
BIRD	<i>Philomachus pugnax</i>	Ruff (reeve)	MI	MI	2014
BIRD	<i>Philomachus pugnax</i>	Ruff (reeve)	MI	MI	2015
BIRD	<i>Plegadis falcinellus</i>	glossy ibis	MI	MI	1982
BIRD	<i>Plegadis falcinellus</i>	Glossy ibis	MI	MI	1998
BIRD	<i>Plegadis falcinellus</i>	Glossy ibis	MI	MI	1999
BIRD	<i>Plegadis falcinellus</i>	Glossy ibis	MI	MI	2000
BIRD	<i>Plegadis falcinellus</i>	Glossy ibis	MI	MI	2001
BIRD	<i>Plegadis falcinellus</i>	Glossy ibis	MI	MI	2002
BIRD	<i>Plegadis falcinellus</i>	Glossy ibis	MI	MI	2003
BIRD	<i>Plegadis falcinellus</i>	Glossy ibis	MI	MI	2004
BIRD	<i>Plegadis falcinellus</i>	Glossy ibis	MI	MI	2005
BIRD	<i>Plegadis falcinellus</i>	Glossy ibis	MI	MI	2006
BIRD	<i>Plegadis falcinellus</i>	Glossy ibis	MI	MI	2007
BIRD	<i>Plegadis falcinellus</i>	Glossy ibis	MI	MI	2008
BIRD	<i>Plegadis falcinellus</i>	Glossy ibis	MI	MI	2009
BIRD	<i>Plegadis falcinellus</i>	Glossy ibis	MI	MI	2011
BIRD	<i>Plegadis falcinellus</i>	Glossy ibis	MI	MI	2012
BIRD	<i>Plegadis falcinellus</i>	Glossy ibis	MI	MI	2013
BIRD	<i>Plegadis falcinellus</i>	Glossy ibis	MI	MI	2014
BIRD	<i>Plegadis falcinellus</i>	Glossy ibis	MI	MI	2015
BIRD	<i>Plegadis falcinellus</i>	Glossy ibis	MI	MI	2017
BIRD	<i>Pluvialis fulva</i>	Pacific golden plover	MI	MI	1909
BIRD	<i>Pluvialis fulva</i>	Pacific golden plover	MI	MI	1973
BIRD	<i>Pluvialis fulva</i>	Pacific golden plover	MI	MI	1978
BIRD	<i>Pluvialis fulva</i>	Pacific golden plover	MI	MI	1979
BIRD	<i>Pluvialis fulva</i>	Pacific golden plover	MI	MI	1981
BIRD	<i>Pluvialis fulva</i>	Pacific golden plover	MI	MI	1998
BIRD	<i>Pluvialis fulva</i>	Pacific golden plover	MI	MI	1999
BIRD	<i>Pluvialis fulva</i>	Pacific golden plover	MI	MI	2000
BIRD	<i>Pluvialis fulva</i>	Pacific golden plover	MI	MI	2001
BIRD	<i>Pluvialis fulva</i>	Pacific golden plover	MI	MI	2002
BIRD	<i>Pluvialis fulva</i>	Pacific golden plover	MI	MI	2003
BIRD	<i>Pluvialis fulva</i>	Pacific golden plover	MI	MI	2004
BIRD	<i>Pluvialis fulva</i>	Pacific golden plover	MI	MI	2005
BIRD	<i>Pluvialis fulva</i>	Pacific golden plover	MI	MI	2006
BIRD	<i>Pluvialis fulva</i>	Pacific golden plover	MI	MI	2007
BIRD	<i>Pluvialis fulva</i>	Pacific golden plover	MI	MI	2009
BIRD	<i>Pluvialis fulva</i>	Pacific golden plover	MI	MI	2010
BIRD	<i>Pluvialis fulva</i>	Pacific golden plover	MI	MI	2011
BIRD	<i>Pluvialis fulva</i>	Pacific golden plover	MI	MI	2012
BIRD	<i>Pluvialis fulva</i>	Pacific golden plover	MI	MI	2013
BIRD	<i>Pluvialis fulva</i>	Pacific golden plover	MI	MI	2014
BIRD	<i>Pluvialis fulva</i>	Pacific golden plover	MI	MI	2015
BIRD	<i>Pluvialis fulva</i>	Pacific golden plover	MI	MI	2017

BIRD	<i>Pluvialis squatarola</i>	Grey plover	MI	MI	0
BIRD	<i>Pluvialis squatarola</i>	Grey plover	MI	MI	1979
BIRD	<i>Pluvialis squatarola</i>	Grey plover	MI	MI	1981
BIRD	<i>Pluvialis squatarola</i>	Grey plover	MI	MI	1998
BIRD	<i>Pluvialis squatarola</i>	Grey plover	MI	MI	1999
BIRD	<i>Pluvialis squatarola</i>	Grey plover	MI	MI	2000
BIRD	<i>Pluvialis squatarola</i>	Grey plover	MI	MI	2001
BIRD	<i>Pluvialis squatarola</i>	Grey plover	MI	MI	2002
BIRD	<i>Pluvialis squatarola</i>	Grey plover	MI	MI	2003
BIRD	<i>Pluvialis squatarola</i>	Grey plover	MI	MI	2004
BIRD	<i>Pluvialis squatarola</i>	Grey plover	MI	MI	2005
BIRD	<i>Pluvialis squatarola</i>	Grey plover	MI	MI	2006
BIRD	<i>Pluvialis squatarola</i>	Grey plover	MI	MI	2007
BIRD	<i>Pluvialis squatarola</i>	Grey plover	MI	MI	2008
BIRD	<i>Pluvialis squatarola</i>	Grey plover	MI	MI	2009
BIRD	<i>Pluvialis squatarola</i>	Grey plover	MI	MI	2010
BIRD	<i>Pluvialis squatarola</i>	Grey plover	MI	MI	2011
BIRD	<i>Pluvialis squatarola</i>	Grey plover	MI	MI	2012
BIRD	<i>Pluvialis squatarola</i>	Grey plover	MI	MI	2013
BIRD	<i>Pluvialis squatarola</i>	Grey plover	MI	MI	2014
BIRD	<i>Pluvialis squatarola</i>	Grey plover	MI	MI	2015
BIRD	<i>Polytelis alexandrae</i>	princess parrot	P4	VU	1999
BIRD	<i>Puffinus huttoni</i>	Hutton's shearwater	EN		1900
BIRD	<i>Puffinus huttoni</i>	Hutton's shearwater	EN		1995
BIRD	<i>Puffinus huttoni</i>	Hutton's shearwater	EN		1999
BIRD	<i>Puffinus huttoni</i>	Hutton's shearwater	EN		2000
BIRD	<i>Rostratula australis</i>	Australian painted snipe	EN	EN	1986
BIRD	<i>Rostratula australis</i>	Australian painted snipe	EN	EN	1993
BIRD	<i>Rostratula australis</i>	Australian painted snipe	EN	EN	1999
BIRD	<i>Rostratula australis</i>	Australian painted snipe	EN	EN	2002
BIRD	<i>Rostratula australis</i>	Australian painted snipe	EN	EN	2004
BIRD	<i>Rostratula australis</i>	Australian painted snipe	EN	EN	2011
BIRD	<i>Rostratula australis</i>	Australian painted snipe	EN	EN	2015
BIRD	<i>Rostratula australis</i>	Australian painted snipe	EN	EN	2017
BIRD	<i>Stercorarius parasiticus</i>	Arctic jaeger, Arctic skua	MI	MI	1999
BIRD	<i>Sterna dougallii</i>	Roseate tern	MI	MI	1900
BIRD	<i>Sterna dougallii</i>	Roseate tern	MI	MI	1979
BIRD	<i>Sterna dougallii</i>	Roseate tern	MI	MI	1995
BIRD	<i>Sterna dougallii</i>	Roseate tern	MI	MI	1999
BIRD	<i>Sterna dougallii</i>	Roseate tern	MI	MI	2000
BIRD	<i>Sterna dougallii</i>	Roseate tern	MI	MI	2001
BIRD	<i>Sterna dougallii</i>	Roseate tern	MI	MI	2003
BIRD	<i>Sterna dougallii</i>	Roseate tern	MI	MI	2005
BIRD	<i>Sterna dougallii</i>	Roseate tern	MI	MI	2007
BIRD	<i>Sterna dougallii</i>	Roseate tern	MI	MI	2008
BIRD	<i>Sterna dougallii</i>	Roseate tern	MI	MI	2012
BIRD	<i>Sterna dougallii</i>	Roseate tern	MI	MI	2013
BIRD	<i>Sterna dougallii</i>	Roseate tern	MI	MI	2015
BIRD	<i>Sterna hirundo</i>	Common tern	MI	MI	1900
BIRD	<i>Sterna hirundo</i>	Common tern	MI	MI	1981
BIRD	<i>Sterna hirundo</i>	Common tern	MI	MI	1998
BIRD	<i>Sterna hirundo</i>	Common tern	MI	MI	1999
BIRD	<i>Sterna hirundo</i>	Common tern	MI	MI	2000
BIRD	<i>Sterna hirundo</i>	Common tern	MI	MI	2001
BIRD	<i>Sterna hirundo</i>	Common tern	MI	MI	2002
BIRD	<i>Sterna hirundo</i>	Common tern	MI	MI	2003
BIRD	<i>Sterna hirundo</i>	Common tern	MI	MI	2005
BIRD	<i>Sterna hirundo</i>	Common tern	MI	MI	2007
BIRD	<i>Sterna hirundo</i>	Common tern	MI	MI	2009
BIRD	<i>Sterna hirundo</i>	Common tern	MI	MI	2010
BIRD	<i>Sterna hirundo</i>	Common tern	MI	MI	2011
BIRD	<i>Sterna hirundo</i>	Common tern	MI	MI	2012
BIRD	<i>Sterna hirundo</i>	Common tern	MI	MI	2013
BIRD	<i>Sterna hirundo</i>	Common tern	MI	MI	2014
BIRD	<i>Sterna hirundo</i>	Common tern	MI	MI	2015
BIRD	<i>Sterna sumatrana</i>	Black-naped tern	MI	MI	1981
BIRD	<i>Sternula albifrons</i>	little tern	MI	MI	1977
BIRD	<i>Sternula albifrons</i>	Little tern	MI	MI	1998
BIRD	<i>Sternula albifrons</i>	Little tern	MI	MI	1999
BIRD	<i>Sternula albifrons</i>	Little tern	MI	MI	2000

BIRD	<i>Sternula albifrons</i>	Little tern	MI	MI	2001
BIRD	<i>Sternula albifrons</i>	Little tern	MI	MI	2002
BIRD	<i>Sternula albifrons</i>	Little tern	MI	MI	2003
BIRD	<i>Sternula albifrons</i>	Little tern	MI	MI	2004
BIRD	<i>Sternula albifrons</i>	Little tern	MI	MI	2005
BIRD	<i>Sternula albifrons</i>	Little tern	MI	MI	2006
BIRD	<i>Sternula albifrons</i>	Little tern	MI	MI	2007
BIRD	<i>Sternula albifrons</i>	Little tern	MI	MI	2008
BIRD	<i>Sternula albifrons</i>	Little tern	MI	MI	2009
BIRD	<i>Sternula albifrons</i>	Little tern	MI	MI	2011
BIRD	<i>Sternula albifrons</i>	Little tern	MI	MI	2012
BIRD	<i>Sternula albifrons</i>	Little tern	MI	MI	2013
BIRD	<i>Sternula albifrons</i>	Little tern	MI	MI	2014
BIRD	<i>Sternula albifrons</i>	Little tern	MI	MI	2015
BIRD	<i>Sula dactylatra</i>	Masked booby	MI	MI	1978
BIRD	<i>Sula leucogaster</i>	Brown booby	MI	MI	1977
BIRD	<i>Sula leucogaster</i>	Brown booby	MI	MI	1978
BIRD	<i>Sula leucogaster</i>	Brown booby	MI	MI	1979
BIRD	<i>Sula leucogaster</i>	Brown booby	MI	MI	1980
BIRD	<i>Sula leucogaster</i>	Brown booby	MI	MI	1981
BIRD	<i>Sula leucogaster</i>	Brown booby	MI	MI	1997
BIRD	<i>Sula leucogaster</i>	Brown booby	MI	MI	1999
BIRD	<i>Sula leucogaster</i>	Brown booby	MI	MI	2000
BIRD	<i>Sula leucogaster</i>	Brown booby	MI	MI	2001
BIRD	<i>Sula leucogaster</i>	Brown booby	MI	MI	2002
BIRD	<i>Sula leucogaster</i>	Brown booby	MI	MI	2003
BIRD	<i>Sula leucogaster</i>	Brown booby	MI	MI	2004
BIRD	<i>Sula leucogaster</i>	Brown booby	MI	MI	2005
BIRD	<i>Sula leucogaster</i>	Brown booby	MI	MI	2006
BIRD	<i>Sula leucogaster</i>	Brown booby	MI	MI	2007
BIRD	<i>Sula leucogaster</i>	Brown booby	MI	MI	2008
BIRD	<i>Sula leucogaster</i>	Brown booby	MI	MI	2009
BIRD	<i>Sula leucogaster</i>	Brown booby	MI	MI	2010
BIRD	<i>Sula leucogaster</i>	Brown booby	MI	MI	2011
BIRD	<i>Sula leucogaster</i>	Brown booby	MI	MI	2012
BIRD	<i>Sula leucogaster</i>	Brown booby	MI	MI	2013
BIRD	<i>Sula leucogaster</i>	Brown booby	MI	MI	2014
BIRD	<i>Sula leucogaster</i>	Brown booby	MI	MI	2015
BIRD	<i>Sula leucogaster</i>	Brown booby	MI	MI	2017
BIRD	<i>Sula leucogaster</i>	Brown booby	MI	MI	2018
BIRD	<i>Thalasseus bergii</i>	Crested tern	MI	MI	1977
BIRD	<i>Thalasseus bergii</i>	Crested tern	MI	MI	1978
BIRD	<i>Thalasseus bergii</i>	Crested tern	MI	MI	1979
BIRD	<i>Thalasseus bergii</i>	Crested tern	MI	MI	1980
BIRD	<i>Thalasseus bergii</i>	Crested tern	MI	MI	1981
BIRD	<i>Thalasseus bergii</i>	Crested tern	MI	MI	1998
BIRD	<i>Thalasseus bergii</i>	Crested tern	MI	MI	1999
BIRD	<i>Thalasseus bergii</i>	Crested tern	MI	MI	2000
BIRD	<i>Thalasseus bergii</i>	Crested tern	MI	MI	2001
BIRD	<i>Thalasseus bergii</i>	Crested tern	MI	MI	2002
BIRD	<i>Thalasseus bergii</i>	Crested tern	MI	MI	2003
BIRD	<i>Thalasseus bergii</i>	Crested tern	MI	MI	2004
BIRD	<i>Thalasseus bergii</i>	Crested tern	MI	MI	2005
BIRD	<i>Thalasseus bergii</i>	Crested tern	MI	MI	2006
BIRD	<i>Thalasseus bergii</i>	Crested tern	MI	MI	2007
BIRD	<i>Thalasseus bergii</i>	Crested tern	MI	MI	2008
BIRD	<i>Thalasseus bergii</i>	Crested tern	MI	MI	2009
BIRD	<i>Thalasseus bergii</i>	Crested tern	MI	MI	2010
BIRD	<i>Thalasseus bergii</i>	Crested tern	MI	MI	2011
BIRD	<i>Thalasseus bergii</i>	Crested tern	MI	MI	2012
BIRD	<i>Thalasseus bergii</i>	Crested tern	MI	MI	2013
BIRD	<i>Thalasseus bergii</i>	Crested tern	MI	MI	2014
BIRD	<i>Thalasseus bergii</i>	Crested tern	MI	MI	2015
BIRD	<i>Thalasseus bergii</i>	Crested tern	MI	MI	2017
BIRD	<i>Thalasseus bergii</i>	Crested tern	MI	MI	2018
BIRD	<i>Tringa brevipes</i>	Grey-tailed tattler	P4	MI	1978
BIRD	<i>Tringa brevipes</i>	Grey-tailed tattler	P4	MI	1979
BIRD	<i>Tringa brevipes</i>	Grey-tailed tattler	P4	MI	1980
BIRD	<i>Tringa brevipes</i>	Grey-tailed tattler	P4	MI	1981
BIRD	<i>Tringa brevipes</i>	Grey-tailed tattler	P4	MI	1996

BIRD	<i>Tringa brevipes</i>	Grey-tailed tattler	P4	MI	1998
BIRD	<i>Tringa brevipes</i>	Grey-tailed tattler	P4	MI	1999
BIRD	<i>Tringa brevipes</i>	Grey-tailed tattler	P4	MI	2000
BIRD	<i>Tringa brevipes</i>	Grey-tailed tattler	P4	MI	2001
BIRD	<i>Tringa brevipes</i>	Grey-tailed tattler	P4	MI	2002
BIRD	<i>Tringa brevipes</i>	Grey-tailed tattler	P4	MI	2003
BIRD	<i>Tringa brevipes</i>	Grey-tailed tattler	P4	MI	2004
BIRD	<i>Tringa brevipes</i>	Grey-tailed tattler	P4	MI	2005
BIRD	<i>Tringa brevipes</i>	Grey-tailed tattler	P4	MI	2006
BIRD	<i>Tringa brevipes</i>	Grey-tailed tattler	P4	MI	2007
BIRD	<i>Tringa brevipes</i>	Grey-tailed tattler	P4	MI	2008
BIRD	<i>Tringa brevipes</i>	Grey-tailed tattler	P4	MI	2009
BIRD	<i>Tringa brevipes</i>	Grey-tailed tattler	P4	MI	2011
BIRD	<i>Tringa brevipes</i>	Grey-tailed tattler	P4	MI	2012
BIRD	<i>Tringa brevipes</i>	Grey-tailed tattler	P4	MI	2013
BIRD	<i>Tringa brevipes</i>	Grey-tailed tattler	P4	MI	2014
BIRD	<i>Tringa brevipes</i>	Grey-tailed tattler	P4	MI	2015
BIRD	<i>Tringa brevipes</i>	Grey-tailed tattler	P4	MI	2016
BIRD	<i>Tringa brevipes</i>	Grey-tailed tattler	P4	MI	2017
BIRD	<i>Tringa glareola</i>	Wood sandpiper	MI	MI	1997
BIRD	<i>Tringa glareola</i>	Wood sandpiper	MI	MI	1998
BIRD	<i>Tringa glareola</i>	Wood sandpiper	MI	MI	1999
BIRD	<i>Tringa glareola</i>	Wood sandpiper	MI	MI	2000
BIRD	<i>Tringa glareola</i>	Wood sandpiper	MI	MI	2001
BIRD	<i>Tringa glareola</i>	Wood sandpiper	MI	MI	2002
BIRD	<i>Tringa glareola</i>	Wood sandpiper	MI	MI	2003
BIRD	<i>Tringa glareola</i>	Wood sandpiper	MI	MI	2004
BIRD	<i>Tringa glareola</i>	Wood sandpiper	MI	MI	2005
BIRD	<i>Tringa glareola</i>	Wood sandpiper	MI	MI	2006
BIRD	<i>Tringa glareola</i>	Wood sandpiper	MI	MI	2007
BIRD	<i>Tringa glareola</i>	Wood sandpiper	MI	MI	2008
BIRD	<i>Tringa glareola</i>	Wood sandpiper	MI	MI	2009
BIRD	<i>Tringa glareola</i>	Wood sandpiper	MI	MI	2010
BIRD	<i>Tringa glareola</i>	Wood sandpiper	MI	MI	2011
BIRD	<i>Tringa glareola</i>	Wood sandpiper	MI	MI	2012
BIRD	<i>Tringa glareola</i>	Wood sandpiper	MI	MI	2013
BIRD	<i>Tringa glareola</i>	Wood sandpiper	MI	MI	2014
BIRD	<i>Tringa glareola</i>	Wood sandpiper	MI	MI	2015
BIRD	<i>Tringa nebularia</i>	Common greenshank, greenshank	MI	MI	0
BIRD	<i>Tringa nebularia</i>	common greenshank, greenshank	MI	MI	1977
BIRD	<i>Tringa nebularia</i>	Common greenshank, greenshank	MI	MI	1978
BIRD	<i>Tringa nebularia</i>	Common greenshank, greenshank	MI	MI	1979
BIRD	<i>Tringa nebularia</i>	Common greenshank, greenshank	MI	MI	1980
BIRD	<i>Tringa nebularia</i>	Common greenshank, greenshank	MI	MI	1981
BIRD	<i>Tringa nebularia</i>	Common greenshank, greenshank	MI	MI	1998
BIRD	<i>Tringa nebularia</i>	Common greenshank, greenshank	MI	MI	1999
BIRD	<i>Tringa nebularia</i>	Common greenshank, greenshank	MI	MI	2000
BIRD	<i>Tringa nebularia</i>	Common greenshank, greenshank	MI	MI	2001
BIRD	<i>Tringa nebularia</i>	Common greenshank, greenshank	MI	MI	2002
BIRD	<i>Tringa nebularia</i>	Common greenshank, greenshank	MI	MI	2003
BIRD	<i>Tringa nebularia</i>	Common greenshank, greenshank	MI	MI	2004
BIRD	<i>Tringa nebularia</i>	Common greenshank, greenshank	MI	MI	2005
BIRD	<i>Tringa nebularia</i>	Common greenshank, greenshank	MI	MI	2006
BIRD	<i>Tringa nebularia</i>	Common greenshank, greenshank	MI	MI	2007

BIRD	<i>Tringa nebularia</i>	Common greenshank, greenshank	MI	MI	2008
BIRD	<i>Tringa nebularia</i>	Common greenshank, greenshank	MI	MI	2009
BIRD	<i>Tringa nebularia</i>	Common greenshank, greenshank	MI	MI	2010
BIRD	<i>Tringa nebularia</i>	Common greenshank, greenshank	MI	MI	2011
BIRD	<i>Tringa nebularia</i>	Common greenshank, greenshank	MI	MI	2012
BIRD	<i>Tringa nebularia</i>	Common greenshank, greenshank	MI	MI	2013
BIRD	<i>Tringa nebularia</i>	Common greenshank, greenshank	MI	MI	2014
BIRD	<i>Tringa nebularia</i>	Common greenshank, greenshank	MI	MI	2015
BIRD	<i>Tringa nebularia</i>	Common greenshank, greenshank	MI	MI	2016
BIRD	<i>Tringa nebularia</i>	Common greenshank, greenshank	MI	MI	2017
BIRD	<i>Tringa stagnatilis</i>	Marsh sandpiper, little greenshank	MI	MI	1900
BIRD	<i>Tringa stagnatilis</i>	Marsh sandpiper, little greenshank	MI	MI	1995
BIRD	<i>Tringa stagnatilis</i>	Marsh sandpiper, little greenshank	MI	MI	1998
BIRD	<i>Tringa stagnatilis</i>	Marsh sandpiper, little greenshank	MI	MI	1999
BIRD	<i>Tringa stagnatilis</i>	Marsh sandpiper, little greenshank	MI	MI	2000
BIRD	<i>Tringa stagnatilis</i>	Marsh sandpiper, little greenshank	MI	MI	2001
BIRD	<i>Tringa stagnatilis</i>	Marsh sandpiper, little greenshank	MI	MI	2002
BIRD	<i>Tringa stagnatilis</i>	Marsh sandpiper, little greenshank	MI	MI	2003
BIRD	<i>Tringa stagnatilis</i>	Marsh sandpiper, little greenshank	MI	MI	2004
BIRD	<i>Tringa stagnatilis</i>	Marsh sandpiper, little greenshank	MI	MI	2005
BIRD	<i>Tringa stagnatilis</i>	Marsh sandpiper, little greenshank	MI	MI	2006
BIRD	<i>Tringa stagnatilis</i>	Marsh sandpiper, little greenshank	MI	MI	2007
BIRD	<i>Tringa stagnatilis</i>	Marsh sandpiper, little greenshank	MI	MI	2008
BIRD	<i>Tringa stagnatilis</i>	Marsh sandpiper, little greenshank	MI	MI	2009
BIRD	<i>Tringa stagnatilis</i>	Marsh sandpiper, little greenshank	MI	MI	2010
BIRD	<i>Tringa stagnatilis</i>	Marsh sandpiper, little greenshank	MI	MI	2011
BIRD	<i>Tringa stagnatilis</i>	Marsh sandpiper, little greenshank	MI	MI	2012
BIRD	<i>Tringa stagnatilis</i>	Marsh sandpiper, little greenshank	MI	MI	2013
BIRD	<i>Tringa stagnatilis</i>	Marsh sandpiper, little greenshank	MI	MI	2014
BIRD	<i>Tringa stagnatilis</i>	Marsh sandpiper, little greenshank	MI	MI	2015
BIRD	<i>Tringa totanus</i>	Common redshank, redshank	MI	MI	1998
BIRD	<i>Tringa totanus</i>	Common redshank, redshank	MI	MI	1999
BIRD	<i>Tringa totanus</i>	Common redshank, redshank	MI	MI	2000
BIRD	<i>Tringa totanus</i>	Common redshank, redshank	MI	MI	2001

BIRD	<i>Tringa totanus</i>	Common redshank, redshank	MI	MI	2002
BIRD	<i>Tringa totanus</i>	Common redshank, redshank	MI	MI	2003
BIRD	<i>Tringa totanus</i>	Common redshank, redshank	MI	MI	2005
BIRD	<i>Tringa totanus</i>	Common redshank, redshank	MI	MI	2007
BIRD	<i>Tringa totanus</i>	Common redshank, redshank	MI	MI	2008
BIRD	<i>Tringa totanus</i>	Common redshank, redshank	MI	MI	2010
BIRD	<i>Tringa totanus</i>	Common redshank, redshank	MI	MI	2011
BIRD	<i>Tringa totanus</i>	Common redshank, redshank	MI	MI	2012
BIRD	<i>Tringa totanus</i>	Common redshank, redshank	MI	MI	2014
BIRD	<i>Tringa totanus</i>	Common redshank, redshank	MI	MI	2015
BIRD	<i>Tyto novaehollandiae kimberli</i>	Masked owl (northern)	P1	VU	1900
BIRD	<i>Tyto novaehollandiae kimberli</i>	masked owl (northern)	P1	VU	1909
BIRD	<i>Xenus cinereus</i>	Terek sandpiper	MI	MI	0
BIRD	<i>Xenus cinereus</i>	Terek sandpiper	MI	MI	1979
BIRD	<i>Xenus cinereus</i>	Terek sandpiper	MI	MI	1980
BIRD	<i>Xenus cinereus</i>	Terek sandpiper	MI	MI	1981
BIRD	<i>Xenus cinereus</i>	Terek sandpiper	MI	MI	1982
BIRD	<i>Xenus cinereus</i>	Terek sandpiper	MI	MI	1992
BIRD	<i>Xenus cinereus</i>	Terek sandpiper	MI	MI	1998
BIRD	<i>Xenus cinereus</i>	Terek sandpiper	MI	MI	1999
BIRD	<i>Xenus cinereus</i>	Terek sandpiper	MI	MI	2000
BIRD	<i>Xenus cinereus</i>	Terek sandpiper	MI	MI	2001
BIRD	<i>Xenus cinereus</i>	Terek sandpiper	MI	MI	2002
BIRD	<i>Xenus cinereus</i>	Terek sandpiper	MI	MI	2003
BIRD	<i>Xenus cinereus</i>	Terek sandpiper	MI	MI	2004
BIRD	<i>Xenus cinereus</i>	Terek sandpiper	MI	MI	2005
BIRD	<i>Xenus cinereus</i>	Terek sandpiper	MI	MI	2006
BIRD	<i>Xenus cinereus</i>	Terek sandpiper	MI	MI	2007
BIRD	<i>Xenus cinereus</i>	Terek sandpiper	MI	MI	2008
BIRD	<i>Xenus cinereus</i>	Terek sandpiper	MI	MI	2009
BIRD	<i>Xenus cinereus</i>	Terek sandpiper	MI	MI	2011
BIRD	<i>Xenus cinereus</i>	Terek sandpiper	MI	MI	2012
BIRD	<i>Xenus cinereus</i>	Terek sandpiper	MI	MI	2013
BIRD	<i>Xenus cinereus</i>	Terek sandpiper	MI	MI	2014
BIRD	<i>Xenus cinereus</i>	Terek sandpiper	MI	MI	2015
BIRD	<i>Xenus cinereus</i>	Terek sandpiper	MI	MI	2016
BIRD	<i>Xenus cinereus</i>	Terek sandpiper	MI	MI	2017
FISH	<i>Pristis pristis</i>	freshwater sawfish	P3	VU	2016
FISH	<i>Pristis zijsron</i>	green sawfish	VU	VU	2004
MAMMAL	<i>Dasyurus hallucatus</i>	northern quoll	EN	EN	2015
MAMMAL	<i>Dugong dugon</i>	Dugong	OS		0
MAMMAL	<i>Dugong dugon</i>	Dugong	OS		1899
MAMMAL	<i>Dugong dugon</i>	Dugong	OS		1987
MAMMAL	<i>Dugong dugon</i>	dugong	OS		1995
MAMMAL	<i>Dugong dugon</i>	Dugong	OS		2009
MAMMAL	<i>Hydromys chrysogaster</i>	water-rat, rakali	P4		1971
MAMMAL	<i>Lagorchestes conspicillatus leichardti</i>	spectacled hare-wallaby (mainland)	P4		2004
MAMMAL	<i>Lagorchestes conspicillatus leichardti</i>	spectacled hare-wallaby (mainland)	P4		2016
MAMMAL	<i>Lagorchestes conspicillatus leichardti</i>	Spectacled hare-wallaby (mainland)	P4		2017
MAMMAL	<i>Macrotis lagotis</i>	Bilby, dalgyte, ninu	VU	VU	0
MAMMAL	<i>Macrotis lagotis</i>	bilby, dalgyte, ninu	VU	VU	1963
MAMMAL	<i>Macrotis lagotis</i>	bilby, dalgyte, ninu	VU	VU	1965
MAMMAL	<i>Macrotis lagotis</i>	bilby, dalgyte, ninu	VU	VU	1970
MAMMAL	<i>Macrotis lagotis</i>	bilby, dalgyte, ninu	VU	VU	1996
MAMMAL	<i>Macrotis lagotis</i>	bilby, dalgyte, ninu	VU	VU	1998

MAMMAL	<i>Macrotis lagotis</i>	bilby, dalgyte, ninu	VU	VU	1999
MAMMAL	<i>Macrotis lagotis</i>	bilby, dalgyte, ninu	VU	VU	2000
MAMMAL	<i>Macrotis lagotis</i>	bilby, dalgyte, ninu	VU	VU	2001
MAMMAL	<i>Macrotis lagotis</i>	bilby, dalgyte, ninu	VU	VU	2002
MAMMAL	<i>Macrotis lagotis</i>	bilby, dalgyte, ninu	VU	VU	2003
MAMMAL	<i>Macrotis lagotis</i>	bilby, dalgyte, ninu	VU	VU	2009
MAMMAL	<i>Macrotis lagotis</i>	Bilby, dalgyte, ninu	VU	VU	2012
MAMMAL	<i>Macrotis lagotis</i>	bilby, dalgyte, ninu	VU	VU	2014
MAMMAL	<i>Macrotis lagotis</i>	Bilby, dalgyte, ninu	VU	VU	2015
MAMMAL	<i>Macrotis lagotis</i>	Bilby, dalgyte, ninu	VU	VU	2016
MAMMAL	<i>Macrotis lagotis</i>	Bilby, dalgyte, ninu	VU	VU	2018
MAMMAL	<i>Macrotis lagotis</i>	bilby, dalgyte, ninu	VU	VU	2019
MAMMAL	<i>Megaptera novaeangliae</i>	humpback whale	CD	VU	2007
MAMMAL	<i>Megaptera novaeangliae</i>	Humpback whale	CD	VU	2014
MAMMAL	<i>Megaptera novaeangliae</i>	Humpback whale	CD	VU	2017
MAMMAL	<i>Mormopterus cobourgianus</i>	North-western free-tailed bat	P1		2016
MAMMAL	<i>Orcaella heinsohni</i>	Australian snubfin dolphin	P4	MI	1965
MAMMAL	<i>Orcaella heinsohni</i>	Australian snubfin dolphin	P4	MI	1985
MAMMAL	<i>Orcaella heinsohni</i>	Australian snubfin dolphin	P4	MI	1992
MAMMAL	<i>Orcaella heinsohni</i>	Australian snubfin dolphin	P4	MI	2003
MAMMAL	<i>Orcaella heinsohni</i>	Australian snubfin dolphin	P4	MI	2004
MAMMAL	<i>Orcaella heinsohni</i>	Australian snubfin dolphin	P4	MI	2006
MAMMAL	<i>Orcaella heinsohni</i>	Australian snubfin dolphin	P4	MI	2007
MAMMAL	<i>Orcaella heinsohni</i>	Australian snubfin dolphin	P4	MI	2010
MAMMAL	<i>Orcaella heinsohni</i>	Australian snubfin dolphin	P4	MI	2012
MAMMAL	<i>Orcaella heinsohni</i>	Australian snubfin dolphin	P4	MI	2013
MAMMAL	<i>Orcaella heinsohni</i>	Australian snubfin dolphin	P4	MI	2014
MAMMAL	<i>Phascogale tapoatafa kimberleyensis</i>	Kimberley brush-tailed phascogale	VU	VU	0
MAMMAL	<i>Trichosurus vulpecula arnhemensis</i> (Kimberley)	Northern brushtail possum (Kimberley)	VU		0
MAMMAL	<i>Trichosurus vulpecula arnhemensis</i> (Kimberley)	Northern brushtail possum (Kimberley)	VU		1899
MAMMAL	<i>Trichosurus vulpecula arnhemensis</i> (Kimberley)	Northern brushtail possum (Kimberley)	VU		2009
MAMMAL	<i>Trichosurus vulpecula arnhemensis</i> (Kimberley)	Northern brushtail possum (Kimberley)	VU		2016
MAMMAL	<i>Wyulda squamicaudata</i>	scaly-tailed possum	P4		1970
REPTILE	<i>Aipysurus apraefrontalis</i>	Short-nosed seasnake	CR	CR	1900
REPTILE	<i>Chelonia mydas</i>	Green turtle	VU	VU	0
REPTILE	<i>Chelonia mydas</i>	Green turtle	VU	VU	1900
REPTILE	<i>Chelonia mydas</i>	Green turtle	VU	VU	1962
REPTILE	<i>Chelonia mydas</i>	Green turtle	VU	VU	2018
REPTILE	<i>Ctenotus angusticeps</i>	Airlie Island Ctenotus, Northwestern coastal Ctenotus	P3	VU	1990
REPTILE	<i>Ctenotus angusticeps</i>	Airlie Island Ctenotus, Northwestern coastal Ctenotus	P3	VU	2012
REPTILE	<i>Ctenotus angusticeps</i>	Airlie Island Ctenotus, Northwestern coastal Ctenotus	P3	VU	2017
REPTILE	<i>Eretmochelys imbricata</i>	Hawksbill turtle	VU	VU	0
REPTILE	<i>Lepidochelys olivacea</i>	Olive ridley turtle	EN	EN	2018
REPTILE	<i>Lerista separanda</i>	Dampierland plain slider	P2		2005
REPTILE	<i>Lerista separanda</i>	Dampierland plain slider	P2		2009
REPTILE	<i>Natator depressus</i>	Flatback turtle	VU	VU	2009
REPTILE	<i>Natator depressus</i>	Flatback turtle	VU	VU	2010
REPTILE	<i>Natator depressus</i>	Flatback turtle	VU	VU	2012
REPTILE	<i>Natator depressus</i>	Flatback turtle	VU	VU	2013
REPTILE	<i>Natator depressus</i>	Flatback turtle	VU	VU	2018
REPTILE	<i>Simoselaps minimus</i>	Dampierland burrowing snake	P2		2005
REPTILE	<i>Varanus sparnus</i>	Dampier Peninsula goanna	P1		2017

Appendix C

Flora Likelihood Assessment

Distance to Nearest Record from the Survey Area is based on a distance analysis undertaken against 2020 DBCA database. High = Suitable habitat present and records less than 5 km from the Survey Area, Medium = Suitable habitat present and records between 5 km and 15 km from the Survey Area, and Low = No suitable habitat present and/or records greater than 15 km from the Survey Area, Unknown = Insufficient information available to classify. CR= Listed as Critically Endangered under the EPBC Act, EN = Listed as Endangered under the EPBC Act, VU = listed as Vulnerable under the EPBC Act. T = Threatened under the BC Act, P = Priority Listed, Ranked and Listed by the DBCA. Likelihoods are assessed both pre and post survey based on knowledge of the Survey Area, nearest known records, known flowering period of flora taxa and knowledge gained from the survey effort during ground truthing.

Species	Conservation Status		Source			Distance to Nearest Record (km)	Flowering Period	Preferred Habitat	Habitat Occurs Within the Survey Area	Pre-Survey Likelihood of Occurrence	Post-Survey Likelihood of Occurrence
	DBCA	EPBC	NatureMap	PMST	DBCA						
<i>Seringia exastia</i>	T	CR	x	x	x	23 km SW		Pindan plain, orange sand. ²	Yes	Low	Low
<i>Aphyllodium parvifolium</i>	P1				x	29.1 km NW	April or Jul	Sandhills. ²	No	Low	Low
<i>Corymbia paractia</i>	P1		x		x	12.7 km WSW	Apr - May or Oct - Dec	Skeletal soils. In transition zone between coastal beach dunes and pindan soils. ²	No	Low	Low
<i>Ipomoea tolmerana</i> subsp. <i>occidentalis</i>	P1				x	42 km N	Feb, May	Gully/ironstone slope, rocky sandstone, organim loam soil, open Eucalypt woodland. ²	No	Low	Low
<i>Jacquemontia</i> sp. Broome (A.A. Mitchell 3028)	P1		x		x	7.2 km WSW	April	Pindan plain. Light reddish brown sandy clay loam. ²	Yes	Medium	Low
<i>Thespidium basiflorum</i>	P1		x		x	13.5 km WNW	May - Aug	Sandy soils. Creeks. ²	No	Low	Low
<i>Gomphrena pusilla</i>	P2		x		x	17.2 km WSW	Mar - Apr	Fine beach sand. Behind foredune, on limestone. ²	No	Low	Low
<i>Acacia manticola</i> x <i>tumida</i> var. <i>kulparn</i>	P3		x		x	18 km SW		Grows with <i>Acacia tumida</i> . ²	Yes	Medium	Low
<i>Aphyllodium glossocarpum</i>	P3		x		x	15 km WSW	April - Oct	Sand. Pindan. ²	Yes	Medium	Low
<i>Bonamia oblongifolia</i>	P3				x	45 km NNW	Feb	Sandy or gravelly soils. ²	No	Low	Low
<i>Fuirena incrassata</i>	P3		x		x	21.3 km E	May - Aug	Sand, sandy clay. Swamps, creek beds, claypans, semi-saline lakes. ²	No	Low	Low
<i>Glycine pindanica</i>	P3		x		x	9.1 km WSW	Feb - Mar or June	Pindan soils. ²	No	Low	Low
<i>Goodenia byrnesii</i>	P3		x		x	21 km SW	Jan - Feb	Sand. Edge of creek. ²	No	Low	Low
<i>Lophostemon grandiflorus</i> subsp. <i>grandiflorus</i>	P3				x	41 km NW	Jan - Dec	Damp habitats (swamps, seepages). ²	No	Low	Low
<i>Nymphoides beaglesii</i>	P3				x	25.5 km E	Mar - Jun	Edges of permanent waterholes or in seasonally inundated claypans and depressions. ²	No	Low	Low
<i>Paranotis halfordii</i>	P3				x	30 km NW	Feb - June	Rocky soil, sandstone, cliff tops. Also near crees, sandy clay, salt marsh. ²	No	Low	Low
<i>Polymeria</i> sp. Broome (K.F. Kenneally 9759)	P3		x		x	18.5 km SW	May, Nov	Pindan plain. Light reddish-brown sandy clay loam. ²	Yes	Low	Low
<i>Stylidium pindanicum</i>	P3		x		x	13.7 km NW	May - Jun, Aug - Sept	Sandy clay, clay flat, seasonal swamps. ²	No	Low	Low
<i>Tephrosia pedleyi</i>	P3				x	42.5 km SE	Jun - Sept	Pindan sandplain. ²	Yes	Low	Low
<i>Tephrosia valliculata</i>	P3				x	21.4 km SSE	Apr - Sep	Sandy, often shallow soil around sandstone. Rock outcrops. ²	No	Low	Low
<i>Terminalia kumpaja</i>	P3		x		x	11.6 km W	Sep - Oct, Dec	Red aeolian sand dune. ²	Yes	Low	Recorded
<i>Tetragonia coronata</i>	P3		x			8.7 km SW	Jul	Red clay loam. Calcrete outcrops.	No	Low	Low
<i>Pittosporum moluccanum</i>	P4				x	43 km NW	Feb - Aug	White sand, sand dunes. ²	No	Low	Low

¹ Department of Agriculture, Water and Environment (2021) ²Western Australian Herbarium (2021)

Appendix D

Flora Inventory

Family	Taxa
Amaranthaceae	<i>*Aerva javanica</i>
	<i>*Amaranthus viridus</i>
	<i>Ptilotus polystachyus</i>
Apocynaceae	<i>Carissa spinarum</i>
Asteraceae	<i>Pterocaulon</i> sp.
Boraginaceae	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>
Capparaceae	<i>Capparis lasiantha</i>
Celastraceae	<i>Denhamia cunninghamii</i>
Cleomaceae	<i>Arivela viscosa</i>
Combretaceae	<i>Terminalia kumpaja</i>
Fabaceae	<i>Acacia adoxa</i> var. <i>subglabra</i>
	<i>Acacia colei</i>
	<i>Acacia colei</i> var. <i>colei</i>
	<i>Acacia eriopoda</i>
	<i>Acacia monticola</i>
	<i>Acacia</i> sp.
	<i>Acacia tumida</i>
	<i>Bauhinia cunninghamii</i>
	<i>Cajanus marmoratus</i>
	<i>Erythrophleum chlorostachys</i>
	<i>Senna costata</i>
	<i>Senna notabilis</i>
	<i>*Stylosanthes hamata</i>
Gyrostemonaceae	<i>Gyrostemon tepperi</i>
Lecythidaceae	<i>Planchonia careya</i>
Loranthaceae	<i>Amyema benthamii</i>
Malvaceae	<i>Brachychiton diversifolius</i> subsp. <i>diversifolius</i>
	<i>Corchorus sidoides</i> subsp. <i>sidoides</i>
	<i>Sida arenicola</i>
	<i>*Sida cordifolia</i>
	<i>Waltheria indica</i>
Meliaceae	<i>*Azadirachta indica</i>
Moraceae	<i>Ficus aculeata</i>
	<i>Ficus aculeata</i> var. <i>indecora</i>
Myrtaceae	<i>Corymbia dendromerinx</i>
	<i>Corymbia greeniana</i>
	<i>Eucalyptus</i> ? <i>microtheca</i>
Oleaceae	<i>Jasminum didymum</i> subsp. <i>lineare</i>
Passifloraceae	<i>*Passiflora foetida</i>
Poaceae	<i>Aristida</i> sp.
	<i>Eragrostis eriopoda</i>
	<i>Eriachne melicacea</i>
	<i>Sorghum</i> sp.
	<i>Triodia schinzii</i>
Proteaceae	<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>
	<i>Grevillea refracta</i>
	<i>Hakea arborescens</i>
	<i>Hakea macrocarpa</i>
	<i>Persoonia falcata</i>

Family	Taxa
Rhamnaceae	<i>Ventilago viminalis</i>
Rubiaceae	<i>Gardenia pyriformis</i> subsp. <i>keartlandii</i>
	<i>Spermacoce occidentalis</i>
Santalaceae	<i>Santalum lanceolatum</i>
Sapindaceae	<i>Dodonaea hispidula</i> var?
Solanaceae	<i>Solanum cunninghamii</i>

Appendix E

Threatened and Priority Flora Report Forms



Threatened and Priority Flora Report Form

Version 1.3 August 2017

Please complete as much of the form as possible, with emphasis on those sections bordered in black. For information on how to complete the form please refer to the Threatened & Priority Flora Report Form (TPRF) manual on the DBCA website at <http://dpaw.wa.gov.au> under *Standard Report Forms*

TAXON: Terminalia kumpaja	TPFL Pop. No: 4
OBSERVATION DATE: 17/11/2021	CONSERVATION STATUS: P3
OBSERVER/S: Grant Buller	PHONE: 405576230
ROLE: Graduate Ecologist	ORGANISATION: 360 Environmental

DESCRIPTION OF LOCATION (Provide at least nearest town/names locality, and the distance and direction to that place): 24km NE of Broome		Reserve no:
DBC DISTRICT: Kimberley region	LGA: Shire of Broome	Land manager present:
DATUM: GDA94 / MGA94 <input checked="" type="checkbox"/> AGD84 / AMG84 WGS84 Unknown	COORDINATES: (If UTM coords provided, Zone is also required) DecDegrees DegMinSec Lat / Northing: 8025442 Long / Easting: 440585 ZONE: 51K	METHOD USED: GPS <input checked="" type="checkbox"/> Differential GPS Map No. satellites: Boundary polygon captured Map used: Map Scale:
LAND TENURE: Nature reserve National park Conservation park	Timber reserve State forest Water reserve	Private property Pastoral lease UCL
	Rail reserve MRWA road reserve SLK/Pole to	Shire road reserve Other Crown reserve Specify other:

AREA ASSESSMENT: Edge survey	Partial survey <input checked="" type="checkbox"/>	Full survey	Area observed (m²):
EFFORT: Time spent surveying (minutes):			No. of minutes spent / 100 m²:
POP'N COUNT ACCURACY: Actual <input checked="" type="checkbox"/>	Extrapolation	Estimate	Count Method: <u>Actual count - individuals</u>
(Refer to field manual for list)			
WHAT COUNTED:	Plants <input checked="" type="checkbox"/>	Clumps	Clonal stems
TOTAL POP'N STRUCTURE:	Mature:	Juveniles:	Seedlings:
Alive			4
Dead			
QUADRATS PRESENT:	No.	Size 50x50	Data attached <input checked="" type="checkbox"/>
Summary Quad. Totals: Alive	4		
REPRODUCTIVE STATE:	Clonal Immature fruit <input checked="" type="checkbox"/>	Vegetative <input checked="" type="checkbox"/> Fruit <input checked="" type="checkbox"/>	Flowerbud Dehisced fruit
			Flower Percentage in flower: %

CONDITION OF PLANTS: Healthy <input checked="" type="checkbox"/>	Moderate	Poor	Senescent
COMMENT:			

THREATS – type, agent and supporting information: Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. Specify agent where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)	Current impact (N-E)	Potential impact (L-E)	Potential Threat Onset (S-L)
• Vegetation clearing - Energy transmission line	N	M	S
•			
•			

Please return completed form to **Species And Communities Branch DBCA**,
Locked Bag 104, BENTLY DELIVERY CENTRE WA 6983 OR email to: flora.data@dbca.wa.gov.au

RECORDS: Please forward to **Flora Administrative Officer**, Species and Communities Branch.

Record entered by: _____ Sheet No.: _____ Record Entered in Database ☐

Threatened and Priority Flora Report Form

Version 1.3 August 2017

HABITAT INFORMATION:

LANDFORM:	ROCK TYPE:	LOOSE ROCK:	SOIL TYPE:	SOIL COLOUR:	DRAINAGE:
Crest	Granite	(on soil surface; eg	Sand <input checked="" type="checkbox"/>	Red <input checked="" type="checkbox"/>	Well drained <input checked="" type="checkbox"/>
Hill	Dolerite	gravel, quartz fields)	Sandy loam	Brown	Seasonally
Ridge	Laterite	0-10% <input checked="" type="checkbox"/>	Loam	Yellow	inundated
Outcrop	Ironstone	10-30%	Clay loam	White	Permanently
Slope	Limestone	30-50%	Light clay	Grey	inundated
Flat <input checked="" type="checkbox"/>	Quartz	50-100%	Peat	Black	Tidal
Open depression	Specify other:		Specify other:	Specify other:	
Drainage line				Red	
Closed depression	Specific Landform Element				
Wetland	(Refer to field manual for additional values)				
CONDITION OF SOIL:	Dry <input checked="" type="checkbox"/>	Moist	Waterlogged	Inundated	

VEGETATION CLASSIFICATION*:

Eg: 1. Banksia woodland
(B. attenuata, B. illicifolia);
2. Open shrubland
(Hibbertia sp., Acacia spp.);
3. Isolated clumps of
sedges (Mesomelaena
tetragona)

1. Isolated Corymbia greeniana, Gardenia pyriformis subsp. keartlandii trees

2. Open Acacia eriopoda shrubland

3. Sparse Sorghum sp. tussock and Triodia schinzii hummock grassland

4.

ASSOCIATED SPECIES:

Other (non-dominant) spp

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formation should follow 2009 *Australian Soil and Land Survey Field Handbook* guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine Excellent ☒ Very good Good Degraded Completely degraded

COMMENT:

FIRE HISTORY:	Last Fire: Season/Month: _____ Year: _____	Fire Intensity: High Medium Low No signs of fire <input checked="" type="checkbox"/>
FENCING:	Not required <input checked="" type="checkbox"/> Present	Replace / repair Required Length req'd: _____
ROADSIDE MARKERS:	Not required <input checked="" type="checkbox"/> Present	Replace / reposition Required Quantity req'd: _____

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions – include date. Also include details of additional data available, and how to locate it.)

DRF PERMIT/ LICENCE No: SL012305 Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website/ Any actions carried out under the licence/permit should be recorded above in the OTHER COMMENTS section.

SPECIMEN:	Collectors No: _____	WA Herb. <input checked="" type="checkbox"/> Regional Herb. District Herb. Other: _____
ATTACHED:	Map Mudmap Photo GIS data Field notes Other: _____	
COPY SENT TO:	Regional Office District Office Other: _____	

Submitter of Record: Grant Buller Role: Graduate Ecologist Signed: _____ Date: 21 / 1 / 22

Please return completed form to **Species And Communities Branch DBCA**,
Locked Bag 104, BENTLY DELIVERY CENTRE WA 6983 OR email to: flora.data@dbca.wa.gov.au

RECORDS: Please forward to **Flora Administrative Officer**, Species and Communities Branch.

Record entered by: _____ Sheet No.: _____ Record Entered in Database ☐

Appendix F

Flora Site Sheets

FLORA SITE SHEET

Project Name	Broome to Skuthorpe Line Extension: Flora and Fauna Survey		
Site:	BRMR01		
Location	MGA 51	444159 mE	8026103 mN

Described by: GB
Date: 17/11/2021
Type: Relève

Landform: Plain
Slope: Flat
Rock Type: -
Soil Type: Loam, Sand
Soil Colour: Red



Vegetation: *Brachychiton diversifolius* subsp. *diversifolius* low isolated trees over *Acacia eriopoda* tall open shrubland over *Santalum lanceolatum* low sparse shrubs over *Triodia schinzii* mid sparse hummock grassland and *Sorghum* sp. mid open tussock grassland

Condition:	Very Good	Disturbance:	-
Fire Age:	Unknown		

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia eriopoda</i>	800	25	
<i>Bauhinia cunninghamii</i>	250	0.5	
<i>Brachychiton diversifolius</i> subsp. <i>diversifolius</i>	700	0.5	
<i>Dodonaea hispidula</i> var?	100	0.5	
<i>Eragrostis eriopoda</i>	30	1	
<i>Grevillea refracta</i>	130	0.5	
<i>Hakea macrocarpa</i>	350	0.5	
<i>Santalum lanceolatum</i>	300	9	
<i>Sorghum</i> sp.	180	11	
<i>Spermacoce occidentalis</i>	20	0.5	
<i>Triodia schinzii</i>	150	12	

FLORA SITE SHEET

Project Name

Site:

Location

Broome to Skuthorpe Line Extension: Flora and Fauna Survey

BRMR02

MGA 51 441322 mE 8025574 mN

Described by:

Date:

Type:

GB

17/11/2021

Releve

Landform:

Slope:

Rock Type:

Soil Type:

Soil Colour:


Plain

Flat

Laterite, Quartz, Sandstone

Gravel, Loam, Sand

Red



Vegetation:

Corymbia greeniana low isolated trees over mixed *Acacia* (*A. eriopoda*, *A. tumida*) tall open shrubland over *Sorghum* sp. mid open tussock grassland

Condition:

Fire Age:

Very Good

Unknown

Disturbance:

Litter, Historical Clearing, Rehab

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia adoxa</i> var. <i>subglabra</i>	60	0.1	
<i>Acacia eriopoda</i>	500	15	
<i>Acacia monticola</i>	350	0.5	
<i>Acacia tumida</i>	300	3	
<i>Bauhinia cunninghamii</i>	450	0.5	
<i>Corymbia greeniana</i>	1000	1	
<i>Denhamia cunninghamii</i>	200	0.1	
<i>Gardenia pyriformis</i> subsp. <i>keartlandii</i>	500	1	
<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	300	0.5	
<i>Sorghum</i> sp.	70	21	

FLORA SITE SHEET

Project Name

Site:

Location

Broome to Skuthorpe Line Extension: Flora and Fauna Survey

BRMR03

MGA 51 439456 mE 8025237 mN

Described by:

Date:

Type:

GB

17/11/2021

Releve

Landform:

Slope:

Rock Type:

Soil Type:

Soil Colour:

Plain

Flat

-

Loam, Sand

Red



Vegetation:

Corymbia greeniana low isolated trees over mixed Acacia (A. eriopoda, A. tumida) tall open shrubland over Sorghum sp. tall tussock grassland

Condition:

Fire Age:

Excellent

Unknown

Disturbance:

Infrastructure

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
Acacia colei	300	0.1	
Acacia eriopoda	500	21	
Acacia tumida	350	9	
Bauhinia cunninghamii	400	0.5	
Brachychiton diversifolius subsp. diversifolius	500	0.1	
Corymbia greeniana	600	2	
Denhamia cunninghamii	240	0.1	
Eriachne melicacea	20	0.1	
Eucalyptus ?microtheca	500	0.1	
Gardenia pyriformis subsp. keartlandii	500	0.5	
Grevillea pyramidalis subsp. pyramidalis	150	0.5	
Hakea macrocarpa	250	0.5	
Sorghum sp.	120	35	
Terminalia kumpaja (P3)	300	0.1	
Triodia schinzii	130	3	

FLORA SITE SHEET

Project Name

Site:

Location

Broome to Skuthorpe Line Extension: Flora and Fauna Survey

BRMR04

MGA 51 434028 mE 8024144 mN

Described by:

Date:

Type:

GB

18/11/2021

Releve

Landform:

Slope:

Rock Type:

Soil Type:

Soil Colour:


Plain

Flat

-

Loam, Sand

Red



Vegetation:

Corymbia greeniana and *Eucalyptus ?microtheca* low isolated trees over *Acacia eriopoda* tall open shrubland over *Sorghum* sp. mid sparse tussock grassland

Condition:

Fire Age:

Very Good

Unknown

Disturbance:

-

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia adoxa</i> var. <i>subglabra</i>	40	1	
<i>Acacia colei</i>	300	0.5	
<i>Acacia eriopoda</i>	650	11	
* <i>Azadirachta indica</i>	150	1	
<i>Bauhinia cunninghamii</i>	500	1	
<i>Brachychiton diversifolius</i> subsp. <i>diversifolius</i>	450	0.5	
<i>Capparis lasiantha</i>	70	1	
<i>Carissa spinarum</i>	170	0.1	
<i>Corymbia greeniana</i>	900	2	
<i>Eucalyptus ?microtheca</i>	1000	2	
<i>Gardenia pyriformis</i> subsp. <i>keartlandii</i>	900	0.5	
<i>Pterocaulon</i> sp.	60	0.5	
<i>Sorghum</i> sp.	100	3	
<i>Spermacoce occidentalis</i>	10	0.5	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	60	1	
<i>Triodia schinzii</i>	50	1	
<i>Ventilago viminalis</i>	500	0.5	

FLORA SITE SHEET

Project Name	Broome to Skuthorpe Line Extension: Flora and Fauna Survey		
Site:	BRMR05		
Location	MGA 51	434394 mE	8024224 mN

Described by: GB
Date: 18/11/2021
Type: Relève

Landform: Plain
Slope: Flat
Rock Type: -
Soil Type: Loam, Sand
Soil Colour: Red



Vegetation: *Corymbia dendromerinx* low isolated trees over *Acacia eriopoda* tall shrubland over *Triodia schinzii* tall open hummock grassland over *Sorghum* sp. mid open tussock grassland

Condition:	Excellent	Disturbance:	-
Fire Age:	Unknown		

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
<i>Acacia adoxa</i> var. <i>subglabra</i>	40	0.5	
<i>Acacia eriopoda</i>	500	25	
<i>Aristida</i> sp.	70	0.5	
<i>Brachychiton diversifolius</i> subsp. <i>diversifolius</i>	350	0.5	
<i>Corymbia dendromerinx</i>	900	1	
<i>Corymbia greeniana</i>	500	1	
<i>Ficus aculeata</i>	200	0.1	
<i>Grevillea pyramidalis</i> subsp. <i>pyramidalis</i>	300	0.5	
<i>Hakea macrocarpa</i>	300	1	
<i>Sorghum</i> sp.	100	21	
<i>Triodia schinzii</i>	150	15	
<i>Ventilago viminalis</i>	150	0.5	

FLORA SITE SHEET

Project Name

Site:

Location

Broome to Skuthorpe Line Extension: Flora and Fauna Survey

BRMR06

MGA 50 436572 mE 8024646 mN

Described by:

Date:

Type:

GB

18/11/2021

Releve

Landform:

Slope:

Rock Type:

Soil Type:

Soil Colour:


Plain

Flat

-

Loam, Sand

Red



Vegetation:

Acacia eriopoda tall open shrubland over Sorghum sp. mid open tussock grassland over Waltheria indica mid sparse herbland (dead)

Condition:

Fire Age:

Excellent

Unknown

Disturbance:

-

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Notes
Acacia eriopoda	400	25	
Acacia monticola	300	0.5	
Acacia tumida	350	0.5	
Brachychiton diversifolius subsp. diversifolius	300	0.1	
Sida arenicola	170	0.5	
Sorghum sp.	70	21	
Spermacoce occidentalis	10	0.5	
*Stylosanthes hamata	50	1	
Trichodesma zeylanicum var. zeylanicum	80	0.5	
Waltheria indica	60	2	

Appendix G

Fauna Habitat Assessments

Hab01

Project:	Broome to Skuthorpe Line Extension: Flora and Fauna Survey					
Date	16/11/2021		Personnel	PW		
Zone	50	Easting	1083301		Northing	8018059
Landform and soil			Rock			
Landform	Plain		Rock type/s	None		
Soil type	Sand		Surface stone cover			
Soil colour	Orange, Red		Surface stone size classes present			
Condition			Habitat Features			
Quality	Good		Water Source	Absent		
Fire History	Little or no fire evidence (>5 years)					
Disturbance	Litter					
Introduced fauna	Cattle		Microhabitats	Leaf litter, Termite mounds, Woody debris		
Vegetation						
Upper stratum	Absent					
Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)		Brachychiton diversifolius subsp. diversifolius, Acacia eriopoda, Hakea		
Ground stratum	Low (>0.5 m)	Open hummock grassland (20-50%)		Triodia schinzii		



Fulcrum photo ID 37a1076e-ad7e-4689-b669-ac10c130e678, e1769020-616e-4207-8a35-0fccb30a45da

Hab02

Project:	Broome to Skuthorpe Line Extension: Flora and Fauna Survey					
Date	16/11/2021		Personnel	PW		
Zone	50	Easting	1082396		Northing	8017934
Landform and soil			Rock			
Landform	Plain		Rock type/s	None		
Soil type	Sand		Surface stone cover			
Soil colour	Orange, Red		Surface stone size classes present			
Condition			Habitat Features			
Quality	Good					
Fire History	Little or no fire evidence (>5 years)		Water Source	Absent		
Disturbance	Litter		Microhabitats	Hummocks, Leaf litter, Termite mounds, Woody debris		
Introduced fauna	None observed					
Vegetation						
Upper stratum	Absent					
Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)		Acacia eriopoda		
Ground stratum	Tall (1-2 m)	Open hummock grassland (20-50%), Sparse tussock grass Triodia schinzii, Sorghum sp.				



Fulcrum photo ID a89ce14c-4103-4a13-b009-34580106c011, 30a20961-f532-4090-b858-2f2af1b5092a

Hab03

Project:	Broome to Skuthorpe Line Extension: Flora and Fauna Survey					
Date	16/11/2021		Personnel	PW		
Zone	50	Easting	1081528		Northing	8017805
Landform and soil			Rock			
Landform	Plain		Rock type/s	None		
Soil type	Sand		Surface stone cover			
Soil colour	Orange, Red		Surface stone size classes present			
Condition			Habitat Features			
Quality	Good		Water Source	Absent		
Fire History	Little or no fire evidence (>5 years)					
Disturbance	Woody debris dumping		Microhabitats	Hummocks, Leaf litter, Termite mounds, Woody debris		
Introduced fauna	None observed					
Vegetation						
Upper stratum	Mid (10-30 m)	Isolated trees (<0.25%)		Corymbia dendromerinx		
	Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)		Acacia	
Ground stratum	Tall (1-2 m)	Open hummock grassland (20-50%)		Triodia schinzii		



Fulcrum photo ID 52200147-9540-47e0-9003-32062500618c; 25752a85-1c79-4798-ac71-3d1e0c392bc1_f9cf750b-9702-4dae-84a7-f79c8bc5b8cf_28412ca7-

Hab04

Project:	Broome to Skuthorpe Line Extension: Flora and Fauna Survey					
Date	17/11/2021		Personnel	PW		
Zone	50	Easting	1080516		Northing	8017656
Landform and soil			Rock			
Landform	Plain		Rock type/s	None		
Soil type	Sand		Surface stone cover			
Soil colour	Orange, Red		Surface stone size classes present			
Condition						
Quality	Good		Habitat Features			
Fire History	Little or no fire evidence (>5 years)		Water Source	Absent		
Disturbance	Litter		Microhabitats	Hummocks, Leaf litter, Woody debris		
Introduced fauna	None observed					
Vegetation						
Upper stratum	Absent					
Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)		Brachychiton diversifolius subsp. diversifolius, Acacia eriopoda, Hakea		
Ground stratum	Tall (1-2 m)	Sparse hummock grassland (0.25-20%), Sparse tussock gr Triodia schinzii, Sorghum sp., Eragrostis eriopoda				



Fulcrum photo ID 51572043-0497-4834-ad30-0e22211ca163; 7cae7a24-2c00-4521-a894-9369457a2fd1

Hab05

Project:	Broome to Skuthorpe Line Extension: Flora and Fauna Survey					
Date	17/11/2021		Personnel	PW		
Zone	50	Easting	1079777		Northing	8017545
Landform and soil			Rock			
Landform	Plain		Rock type/s	None		
Soil type	Sand		Surface stone cover			
Soil colour	Orange, Red		Surface stone size classes present			
Condition			Habitat Features			
Quality	Disturbed		Water Source	Absent		
Fire History	Little or no fire evidence (>5 years)					
Disturbance	Clearing, Litter		Microhabitats	Hummocks, Leaf litter, Woody debris		
Introduced fauna	None observed					
Vegetation						
Upper stratum	Mid (10-30 m)	Isolated trees (<0.25%)		Corymbia dendromerinx		
	Tall (>2 m)	Open shrubland and/or heathland (20-50%)		Acacia		
Ground stratum	Tall (1-2 m)	Sparse hummock grassland (0.25-20%), Sparse tussock grassland (0.25-20%)		Triodia schinzii, Sorghum sp.		



Fulcrum photo ID 96686112-234c-4a48-9db0-53a4e6f75fd3

Hab06

Project:	Broome to Skuthorpe Line Extension: Flora and Fauna Survey				
Date	17/11/2021		Personnel	PW	
Zone	50	Easting	1079486	Northing	8017484
Landform and soil			Rock		
Landform	Plain		Rock type/s	None	
Soil type	Sand		Surface stone cover		
Soil colour	Orange, Red		Surface stone size classes present		
Condition			Habitat Features		
Quality	Highly degraded		Water Source	Absent	
Fire History	Little or no fire evidence (>5 years)				
Disturbance	Clearing, Infrastructure, Litter		Microhabitats	Leaf litter, Peeling bark	
Introduced fauna	None observed				
Vegetation					
Upper stratum	Mid (10-30 m)	Open woodland (0.25-20%)		Corymbia greeniana (Planted)	
Mid stratum	Absent				
Ground stratum	Absent				



Fulcrum photo ID fb382af6-7d87-4c90-975b-7688f8ae26b9

Hab07

Project:	Broome to Skuthorpe Line Extension: Flora and Fauna Survey					
Date	17/11/2021		Personnel	PW		
Zone	50	Easting	1079018		Northing	8017446
Landform and soil			Rock			
Landform	Plain		Rock type/s	None		
Soil type	Sand		Surface stone cover			
Soil colour	Orange, Red		Surface stone size classes present			
Condition			Habitat Features			
Quality	Highly degraded		Water Source	Absent		
Fire History	Burnt (1-5 years)					
Disturbance	Clearing, Infrastructure, Litter, Vehicle tracks		Microhabitats	Leaf litter		
Introduced fauna	None observed					
Vegetation						
Upper stratum	Low (<10 m)	Isolated trees (<0.25%)		Brachychiton diversifolius subsp. diversifolius, Corymbia dendromerinx		
	Mid (1-2 m)	Open shrubland and/or heathland (20-50%)		Acacia, mixed shrubs (Rehab)		
Ground stratum	Absent					



Fulcrum photo ID 820b8abc-59be-45e1-a23a-f40db3e94dbf

Hab08

Project:	Broome to Skuthorpe Line Extension: Flora and Fauna Survey					
Date	17/11/2021			Personnel	PW	
Zone	50	Easting	1078599		Northing	8017344
Landform and soil				Rock		
Landform	Plain			Rock type/s	None	
Soil type	Sand			Surface stone cover		
Soil colour	Orange, Red			Surface stone size classes present		
Condition				Habitat Features		
Quality	Disturbed			Water Source	Absent	
Fire History	Little or no fire evidence (>5 years)					
Disturbance	Clearing, Infrastructure					
Introduced fauna	None observed			Microhabitats	Leaf litter	
Vegetation						
Upper stratum	Low (<10 m)	Isolated trees (<0.25%)		Corymbia dendromerinx		
Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)		Acacia		
Ground stratum	Tall (1-2 m)	Open hummock grassland (20-50%)		Sorghum sp.		



Fulcrum photo ID 5081a8cf-0097-4e9d-a31b-931c1a24ccbd

Hab09

Project:	Broome to Skuthorpe Line Extension: Flora and Fauna Survey				
Date	17/11/2021		Personnel	PW	
Zone	50	Easting	1077751	Northing	8017234
Landform and soil			Rock		
Landform	Plain		Rock type/s	Laterite, Quartz, Sandstone	
Soil type	Sand		Surface stone cover	50 - 75%	
Soil colour	Orange, Red		Surface stone size classes present	Pebbles (<0.6 cm), Small Stones (0.6 - 2 cm)	
Condition			Habitat Features		
Quality	Disturbed		Water Source	Absent	
Fire History	Little or no fire evidence (>5 years)				
Disturbance	Clearing, Litter, Ripping for rehabilitaion, Asbestos, Water monitoring bore				
Introduced fauna	None observed		Microhabitats	Leaf litter	
Vegetation					
Upper stratum	Absent				
Mid stratum	Tall (>2 m)	Sparse shrubland and/or heathland (0.25-20%)		Acacia	
Ground stratum	Absent				



Fulcrum photo ID 5263ecc2-27c8-43c0-b43f-41ae8c3c0121_9100a91a-e390-4e1d-a770-7bdae95dd84_dd163be4-b168-4e6c-a82e-7c7bdc64b42c_dd17d88d

Hab10


Project:	Broome to Skuthorpe Line Extension: Flora and Fauna Survey					
Date	17/11/2021		Personnel	PW		
Zone	50	Easting	1076978		Northing	8017113
Landform and soil			Rock			
Landform	Plain		Rock type/s	None		
Soil type	Sand		Surface stone cover			
Soil colour	Orange, Red		Surface stone size classes present			
Condition			Habitat Features			
Quality	Good					
Fire History	Burnt (1-5 years)		Water Source	Absent		
Disturbance	None observed		Microhabitats	Leaf litter		
Introduced fauna	None observed					
Vegetation						
Upper stratum	Absent					
Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)		Acacia		
Ground stratum	Tall (1-2 m)	Open hummock grassland (20-50, Sparse tussock grasslar Triodia schinzii, Eragrostis eriopoda				



Fulcrum photo ID 013190a1-87ee-49e0-9020-9e561000a00a_21252211-611e-48ec-8150-n96b780fd99

Hab11


Project:	Broome to Skuthorpe Line Extension: Flora and Fauna Survey				
Date	17/11/2021		Personnel	PW	
Zone	50	Easting	1075809	Northing	8016940
Landform and soil			Rock		
Landform	Plain		Rock type/s	None	
Soil type	Sand		Surface stone cover		
Soil colour	Orange, Red		Surface stone size classes present		
Condition			Habitat Features		
Quality	Good				
Fire History	Little or no fire evidence (>5 years)		Water Source	Absent	
Disturbance	None observed		Microhabitats	Leaf litter, Woody debris	
Introduced fauna	None observed				
Vegetation					
Upper stratum	Low (<10 m)	Isolated trees (<0.25%)		Corymbia dendromerinx	
	Mid stratum	Tall (>2 m)	Shrubland and/or heathland (50-80%)		Acacia tumida, Acacia eriopoda
	Ground stratum	Mid (0.5-1 m)	Open tussock grassland (20-50%)		Sorghum sp.
			Fulcrum photo ID	65041910-C000-499F-0039-47672E700A05, 04001030-048C-413E-BD89-3B211B6FC8A8	





Hab12

Project:	Broome to Skuthorpe Line Extension: Flora and Fauna Survey					
Date	17/11/2021		Personnel	PW		
Zone	50	Easting	1074937	Northing	8016806	
Landform and soil			Rock			
Landform	Plain		Rock type/s	None		
Soil type	Sand		Surface stone cover			
Soil colour	Orange, Red		Surface stone size classes present			
Condition			Habitat Features			
Quality	Disturbed		Water Source	Absent		
Fire History	Little or no fire evidence (>5 years)			Microhabitats	Leaf litter, Termite mounds, Woody debris	
Disturbance	Clearing, Weeds					
Introduced fauna	None observed					
Vegetation						
Upper stratum	Absent					
Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)		Acacia, Bauhinia cunninghamii		
Ground stratum	Mid (0.5-1 m)	Sparse forbland (0.25-20%)		Trichodesma zeylanicum var. zeylanicum		
				Fulcrum photo ID	6b92208c-ebca-4089-9780-dc60322c8632	





Hab13

Project:	Broome to Skuthorpe Line Extension: Flora and Fauna Survey				
Date	18/11/2021		Personnel	PW	
Zone	50	Easting	1073803	Northing	8016629
Landform and soil			Rock		
Landform	Plain		Rock type/s	None	
Soil type	Sand		Surface stone cover		
Soil colour	Orange, Red		Surface stone size classes present		
Condition			Habitat Features		
Quality	Highly degraded		Water Source	Absent	
Fire History	Little or no fire evidence (>5 years)				
Disturbance	Clearing, Litter, Vehicle tracks, Weeds				
Introduced fauna	None observed		Microhabitats	Leaf litter, Woody debris	
Vegetation					
Upper stratum	Absent				
Mid stratum	Absent				
Ground stratum	Absent				



Fulcrum photo ID fcec442f-197f-4039-83b5-d92e9dc8e2cf

Hab14

Project:	Broome to Skuthorpe Line Extension: Flora and Fauna Survey					
Date	18/11/2021		Personnel	PW		
Zone	50	Easting	1073272		Northing	8016505
Landform and soil			Rock			
Landform	Plain		Rock type/s	None		
Soil type	Sand		Surface stone cover			
Soil colour	Orange, Red		Surface stone size classes present			
Condition						
Quality	Good		Habitat Features			
Fire History	Little or no fire evidence (>5 years)		Water Source	Absent		
Disturbance	Clearing, Vehicle tracks		Microhabitats	Leaf litter, Termite mounds, Woody debris		
Introduced fauna	None observed					
Vegetation						
Upper stratum	Absent					
Mid stratum	Tall (>2 m)	Shrubland and/or heathland (50-80%)		Acacia		
Ground stratum	Tall (1-2 m)	Open hummock grassland (20-50%)		Sorghum sp.		



Fulcrum photo ID 7c222acf-4dba-4991-a1d2-553443e17b37

Hab15

Project:	Broome to Skuthorpe Line Extension: Flora and Fauna Survey				
Date	18/11/2021		Personnel	PW	
Zone	50	Easting	1072285	Northing	8016354
Landform and soil			Rock		
Landform	Plain		Rock type/s	None	
Soil type	Sand		Surface stone cover		
Soil colour	Brown, Red		Surface stone size classes present		
Condition			Habitat Features		
Quality	Good		Water Source	Absent	
Fire History	Little or no fire evidence (>5 years)		Microhabitats	Leaf litter, Termite mounds, Woody debris	
Disturbance	None observed				
Introduced fauna	None observed				
Vegetation					
Upper stratum	Absent				
Mid stratum	Tall (>2 m)	Shrubland and/or heathland (50-80%)		Acacia eriopoda	
Ground stratum	Tall (1-2 m)	Sparse hummock grassland (0.25-20%), Sparse tussock grassland (0.25-20%)		Triodia schinzii, Sorghum sp.	



Fulcrum photo ID 1e0100d2-ccaf-4210-b77c-90a334740c08, 5241b09c-b040-4a16-bce7-c726d76050d6

Hab16

Project:	Broome to Skuthorpe Line Extension: Flora and Fauna Survey					
Date	18/11/2021		Personnel	PW		
Zone	50	Easting	1071557		Northing	8016250
Landform and soil			Rock			
Landform	Plain		Rock type/s	None		
Soil type	Sand		Surface stone cover			
Soil colour	Orange, Red		Surface stone size classes present			
Condition			Habitat Features			
Quality	Good		Water Source	Absent		
Fire History	Little or no fire evidence (>5 years)					
Disturbance	Old fence line		Microhabitats	Leaf litter, Termite mounds, Woody debris		
Introduced fauna	None observed					
Vegetation						
Upper stratum	Low (<10 m)	Isolated trees (<0.25%)		Corymbia dendromerinx		
	Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)		Acacia tumida, Acacia eriopoda	
Ground stratum	Tall (1-2 m)	Sparse hummock grassland (0.25-20%), Sparse tussock gr Triodia schinzii, Sorghum sp.				



Fulcrum photo ID 13115610-20a5-4439-9520-2254079e01c9, 4a77c089-06c3-4070-b677-7ebc0152327a

Hab17

Project:	Broome to Skuthorpe Line Extension: Flora and Fauna Survey				
Date	18/11/2021		Personnel	PW	
Zone	50	Easting	1070331	Northing	8016012
Landform and soil			Rock		
Landform	Plain		Rock type/s	None	
Soil type	Sand		Surface stone cover		
Soil colour	Brown, Red		Surface stone size classes present		
Condition			Habitat Features		
Quality	Good		Water Source	Absent	
Fire History	Little or no fire evidence (>5 years)		Microhabitats	Leaf litter, Termite mounds	
Disturbance	Litter				
Introduced fauna					
Vegetation					
Upper stratum	Low (<10 m)	Open woodland (0.25-20%)		<i>Corymbia dendromerinx</i>	
Mid stratum	Tall (>2 m)	Open shrubland and/or heathland (20-50%)		<i>Acacia, Bauhinia cunninghamii</i>	
Ground stratum	Tall (1-2 m)	Open hummock grassland (20-50%)		<i>Sorghum sp.</i>	



Fulcrum photo ID 5e4c47ef-c050-41d1-a876-930139737510, e10ac814-1era-4590-0e0a-a1f540ffb0cb

Appendix H Fauna Inventory

Conservation Status: State - Listed under Biodiversity Conservation Act 2016, Federal - Listed under Environmental Protection and Biodiversity Conservation Act 1999. MA - Marine.

Family	Scientific Name	Common Name	Conservation Status		Method						
			State	Federal	Sighting	Call	Remains	Tracks	Scat	Feather	Digging
Aves											
Accipitridae	<i>Haliastur sphenurus</i>	Whistling Kite		MA	3						
	<i>Milvus migrans</i>	Black Kite			4						
Alcedinidae	<i>Todiramphus sanctus</i>	Sacred Kingfisher		MA	5						
Artamidae	<i>Cracticus nigrogularis</i>	Pied Butcherbird			4						
Cacatuidae	<i>Cacatua sanguinea</i>	Little Corella			3	1					
	<i>Calyptorhynchus banksii macrorhynchus</i>				3						
	<i>Eolophus roseicapilla</i>	Galah			3						
Campephagidae	<i>Coracina novaehollandiae</i>	Black-faced Cuckoo-shrike		MA	11						
Charadriidae	<i>Vanellus miles</i>	Masked Lapwing			22						
Columbidae	<i>Geopelia humeralis</i>	Bar-shouldered Dove			6						
	<i>Geopelia striata placida</i>	Peaceful Dove			6	3					
	<i>Ocyphaps lophotes</i>	Crested Pigeon			7						
Coraciidae	<i>Eurystomus orientalis</i>	Oriental Dollarbird		MA	3						
Corvidae	<i>Corvus orru</i>	Torresian Crow			9	7					
Dicaeidae	<i>Dicaeum hirundinaceum</i>	Mistletoebird			3						
Estrildidae	<i>Stizoptera bichenovii</i>	Double-barred Finch			5						
Falconidae	<i>Falco berigora</i>	Brown Falcon			2					1	
	<i>Falco cenchroides</i>	Australian Kestrel		MA	1						
Locustellidae	<i>Cincloramphus mathewsi</i>	Rufous Songlark				1					
Maluridae	<i>Malurus assimilis</i>	Purple-backed Fairywren			2						
	<i>Malurus melanocephalus</i>	Red-backed Fairywren			16	4					
Meliphagidae	<i>?Conopophila rufogularis</i>	Rufous-throated Honeyeater			1						
	<i>?Ptilotula flavescens</i>	Yellow-tinted Honeyeater			1						
	<i>Gavicalis virescens</i>	Singing Honeyeater			2	1					
	<i>Philemon argenticeps</i>	Silver-crowned Friarbird			1						
	<i>Philemon citreogularis</i>	Little Friarbird			18	4					
Monarchidae	<i>Grallina cyanoleuca</i>	Magpie-lark		MA	27	6					
Numididae	<i>*Numida meleagris</i>	Guineafowl			3					1	
Pachycephalidae	<i>?Colluricincla harmonica</i>	Grey Shrikethrush			1						

Family	Scientific Name	Common Name	Conservation Status		Method						
			State	Federal	Sighting	Call	Remains	Tracks	Scat	Feather	Digging
Pachycephalidae	<i>Pachycephala rufiventris</i>	Rufous Whistler				8					
Pomatostomidae	<i>Pomatostomus temporalis</i>	Grey-crowned Babbler			7						
Psittaculidae	<i>Aprosmictus erythropterus</i>	Red-winged Parrot			29						
	<i>Trichoglossus rubritorquis</i>	Red-collared Lorikeet			37						
Ptilonorhynchidae	<i>Chlamydera nuchalis</i>	Great Bowerbird			1						
Rhipiduridae	<i>Rhipidura leucophrys</i>	Willie Wagtail			9	1					
Threskiornithidae	<i>Threskiornis spinicollis</i>	Straw-necked Ibis		MA	4						
Mammalia											
Bovidae	<i>*Bos primigenius taurus</i>	European Cattle							1		
Canidae	<i>*Canis familiaris</i>	Dog/Dingo						1			
Macropodidae	<i>Macropodidae sp.</i>							5	12		4
	<i>Notamacropus agilis nigrescens</i>	Agile Wallaby			11		5	2			
Reptilia											
Agamidae	<i>Diporiphora pindan</i>	Pindan Dragon			2						