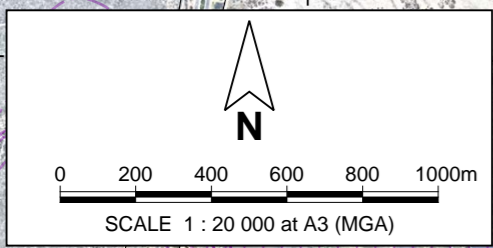
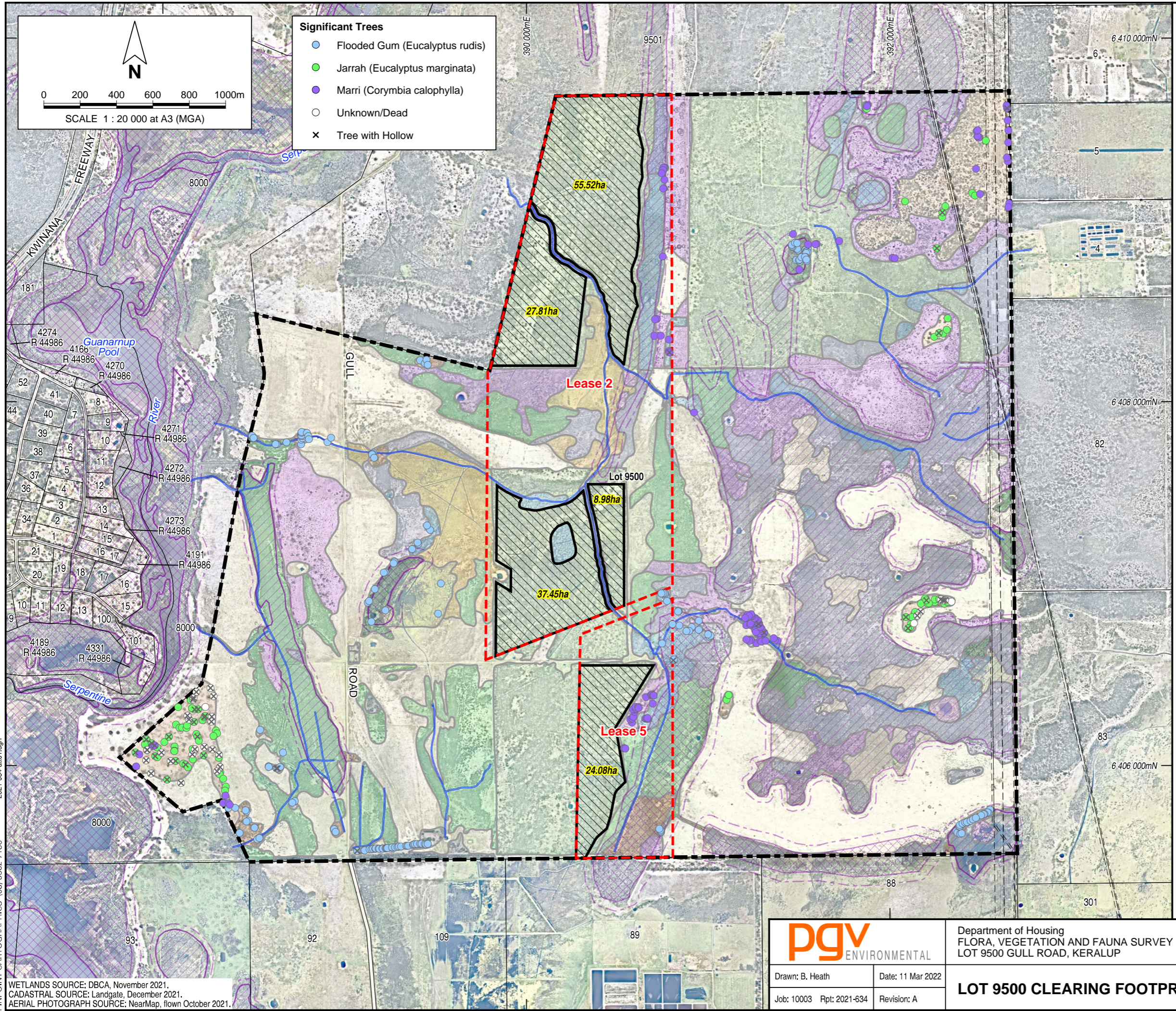


Attachment 2
Clearing Footprint



- Significant Trees**
- Flooded Gum (*Eucalyptus rudis*)
 - Jarrah (*Eucalyptus marginata*)
 - Marri (*Corymbia calophylla*)
 - Unknown/Dead
 - ✕ Tree with Hollow

- Legend**
- Site Boundary
 - - - Lease Boundary
 - Cadastral Boundary
 - - - Easement Boundary
 - Vegetation Type Boundary
 - 3m Watercourse Buffer
 - ▨ Clearing Footprint
- Geomorphic Wetlands**
- ▨ Conservation Category
 - ▨ Resource Enhancement
 - 14702 Wetland UFI Number
 - - - Wetland Buffer
- Vegetation Types**
- EmXo**
Eucalyptus marginata Woodland over *Xylomelum occidentale* Low Open Woodland over *Hibbertia hypericoides* Low Shrubland
 - EgKg**
Eucalyptus globulus Woodland over *Kunzea glabrescens* Tall Shrubland over *Astartea affinis* Shrubland
 - Mp**
Melaleuca preissiana scattered trees
 - MpAa**
Melaleuca preissiana Low Open Woodland over *Astartea affinis* Open Heath
 - MpKg**
Melaleuca preissiana Open to Low Open Forest over *Kunzea glabrescens* Tall Open Shrubland over *Astartea affinis/Regelia ciliata* Open Heath over *Lepidosperma longitundinale* Sedgeland
 - KgAa**
Kunzea glabrescens Tall Open Scrub over *Astartea affinis* Open Heath
 - Kg**
Kunzea glabrescens Scattered Shrubs
 - Mr**
Melaleuca raphiophylla Low Open Forest over *Melaleuca teretifolia/Kunzea glabrescens* Tall Shrubland over *Juncus pallidus* Open Sedgeland
 - Aa**
Astartea affinis Closed Heath
 - ErKg**
Eucalyptus rudis Open Forest over *Kunzea glabrescens* Tall Shrubland over *Astartea affinis* Open Shrubland over *Lepidosperma longitundinale* Very Open Sedgeland
 - ErCcMp**
Eucalyptus rudis/Corymbia calophylla Open Forest over *Melaleuca preissiana* Low Open Woodland over *Astartea affinis* Shrubland over *Lepidosperma longitundinale*
 - Er**
Eucalyptus rudis Scattered Trees
 - Jp**
Juncus pallidus sedgeland
 - Exotic Trees**
 - Bare**
 - Water**

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PINPOINT CARTOGRAPHICS (08) 9562 7136

WETLANDS SOURCE: DBCA, November 2021.
 CADASTRAL SOURCE: Landgate, December 2021.
 AERIAL PHOTOGRAPH SOURCE: NearMap, flown October 2021.

pgv ENVIRONMENTAL		Department of Housing FLORA, VEGETATION AND FAUNA SURVEY LOT 9500 GULL ROAD, KERALUP	Attachment 2
Drawn: B. Heath	Date: 11 Mar 2022	LOT 9500 CLEARING FOOTPRINT ON LEASES 2 AND 5	
Job: 10003 Rpt: 2021-634	Revision: A		

**Attachment 3
Flora, Vegetation and
Fauna Survey**

LOT 9500 GULL ROAD KERALUP

FLORA, VEGETATION AND FAUNA SURVEY

Prepared for: DevelopmentWA and the Peel Development Commission

Report Date: 17 January 2022

Version: 2

Report No. 2021-634

The logo for PGV Environmental is located at the bottom of the page. It features the letters 'PGV' in a large, bold, white sans-serif font. Below 'PGV', the word 'ENVIRONMENTAL' is written in a smaller, white, all-caps sans-serif font. The background of the bottom half of the page is a vibrant orange with a subtle, curved white line that sweeps across the width of the page, creating a sense of movement and design.

PGV
ENVIRONMENTAL

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1 INTRODUCTION

1.1 Background

Lot 9500 Gull Road, Keralup (the site) is located in the Shire of Murray and is part of a large government-owned landholding known as Keralup. The site is 1608.9031ha and is currently partially used for grazing cattle but is otherwise unused. DevelopmentWA and the Peel Development Commission is investigating the potential to activate the site for a range of potential land uses.

Lot 9500 contains large areas of flat, low-lying paddocks, vegetated wetlands and several low rises which are mostly bare or lightly vegetated. The site contains several large areas used previously for Blue Gum plantations which have since been cleared.

Detailed environmental investigations of the larger Keralup landholding (including Lot 9500) were undertaken by the Department of Housing (now the Department of Communities) in 2008 including flora, vegetation, and fauna surveys. The surveys are now thirteen years old, and the vegetation condition and fauna habitat may have changed during this period.

PGV Environmental was commissioned by DevelopmentWA and the Peel Development Commission to undertake a detailed flora and vegetation survey and a Basic Fauna Survey of the site to assist in understanding any environmental constraints for development of the site.

1.2 Scope of Work

1.2.1 Flora and Vegetation

PGV Environmental undertook a Detailed Flora and Vegetation Survey in accordance with *EPA Technical Guidance: Flora and Vegetation Surveys* (EPA, 2016) and included:

- A desktop search and review of the Department of Biodiversity, Conservation and Attractions' Declared Rare and Priority Flora databases and Threatened and Priority Ecological Communities database;
- A search of the Commonwealth Government's Protected Matters Search Tool to identify species potentially occurring within the area that are protected under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC);
- Field survey using quadrats to record native and introduced species as well as a thorough site walkover of any areas of native vegetation;
- Recorded the location of significant plant species;
- Description and mapped the vegetation types and vegetation condition;
- Compilation of a flora list; and
- Preparation of a digital report.

1.2.2 Fauna Survey

A Basic Fauna Survey (previously called Level 1 Fauna Survey) was undertaken in accordance with *EPA Technical Guidance: Fauna Surveys* (EPA, 2020) and included:

- A search of the DBCA Databases and NatureMap to identify locations of any Threatened and Priority Species known to be present in proximity to the site;
- A search of the Commonwealth Government's Protected Matters Search Tool to identify species potentially occurring within the area that are protected under the EPBC Act 1999 or international migratory bird agreements (JAMBA/CAMBA);
- A description of the fauna habitats on the site based on a site inspection; and
- An assessment of the site for conservation significant species in a local and regional context.

The Fauna Survey was undertaken concurrently with the Flora and Vegetation Survey.

2 EXISTING ENVIRONMENT

2.1 Land Use

The earliest aerial photography of the site from Landgate Map Viewer is from March 1965 (Plate 1). The site was progressively cleared from 1965 to the mid-1980s with native vegetation remaining in some drainage lines and low-lying areas. The paddocks were used for pasture and stock grazing with several farm dams constructed around the site.

Blue Gum plantations were established by the Department of Housing across the site in the early 1990s (Plates 2 and 3). Most of the dark areas on Plate 3 are Blue Gum Plantations.

The plantations were harvested in a staged approach in the mid-late 2000s.

Some native vegetation has regrown in the old plantations and coppicing of Blue Gums has occurred since the plantations were harvested (Plate 4).

Plate 1: Aerial Photography March 1965 (Landgate, 2021)



Plate 2: Blue Gum plantation at Southern end of the Lot - February 1999 (Landgate 2021)



Plate 3: Aerial Photography February 2000 (Landgate 2021)



Plate 4: Aerial Photography February 2021 (Landgate 2021)



2.2 Topography

The site is mostly flat in the western and central areas at 7-11m AHD and rising gently to some higher points in the eastern area up to 23-29m AHD (Figure 2).

2.3 Geology and Soils

The Bassendean Dunes system forms the predominant geomorphological unit on the site and is described as follows:

- An Aeolian deposit consisting of sandplains with low dunes and occasional swamps with iron or humus podzols (Churchward and McArthur, 1980). This unit occurs across the majority of the subject land.

The four soil mapped on the site are (GSWA, 1980) (Figure 3):

- S8 - Sand: very light grey at the surface, yellow at depth; fine to medium grained, sub-rounded quartz, moderately well sorted and of aeolian origin relating to Bassendean Sand.
- S10 - Sand: a thin layer of sand (S8) overlying clay, silt and clayey silt of the Guildford Formation.
- CP - Peaty Clay: mid to dark grey, soft, water saturated clay with variable organic content, of alluvial origin.

- Cps - Peaty Clay: dark grey and black, soft, of variable organic content, some quartz sand in places, of lacustrine origin.

2.4 Hydrology

2.4.1 Groundwater

Parsons Brinkerhoff (2008) monitored groundwater levels in 10 bores across the wider Keralup landholding between October 2005 and March 2008. The peak water levels were recorded between July and October and depth to groundwater ranged between 0.97m BGL and 2.31m BGL. Minimum groundwater levels were recorded between April and May and the depth to groundwater ranged between 1.39m BGL and 3.78m BGL.

In general, groundwater levels fluctuate seasonally. Groundwater flows east to west, with the notable influence of the Serpentine River to the west of the site.

Emerson Stewart (2009) have conducted groundwater modelling across the wider Keralup landholding.

2.4.2 Surface Water

The regional surface drainage of the site is situated within the Serpentine River catchment of the Peel-Harvey Estuarine System. The Serpentine River has a 3.7km segment meandering in a north-south alignment adjacent to the western boundary of the site.

Two pools occur in this section of the Serpentine River:

- Guanapun Pool; and
- Yalbanberup Pool (Figure 2).

There are several farm dams and surface drainage channels that traverse the site to alleviate water logging of the land.

2.4.3 Wetlands

The site is mostly mapped as wetland in the DBCA *Geomorphic Wetlands of the Swan Coastal Plain* dataset except for some sand ridges on the eastern portion of the site (Figure 4). Thirteen separate wetlands are mapped on the site. The largest wetland is a Multiple Use Palusplain (UFI 16021) that extends to the north, east and south of the site. Eleven other wetlands occur on the site, including two small Multiple Use wetlands, five Resource Enhancement wetlands and six Conservation Category wetlands (Table 1). The Serpentine River (Conservation Category wetland 15329) is located to the west of the site with the closest point about 60m away.

Table 1: Geomorphic Wetlands

Wetland ID	Wetland Type	Management Category
16021	Palusplain	Multiple Use
14702	Palusplain	Multiple Use
14700	Dampland	Resource Enhancement
15852	Palusplain	Resource Enhancement
15849	Sumpland	Resource Enhancement
15853	Palusplain	Resource Enhancement
15854	Palusplain	Resource Enhancement

Wetland ID	Wetland Type	Management Category
14654	Sumpland	Conservation
15856	Palusplain	Conservation
15857	Palusplain	Conservation
14698	Palusplain	Conservation
15858	Palusplain	Conservation
15860	Sumpland	Conservation

Two RAMSAR listed wetlands occur in the region as follows:

- Becher Point Wetlands are located approximately 10km to the northwest of the site in the suburb of Port Kennedy; and
- Peel Yalgorup System is located 24km to the southwest of the site. The Serpentine River adjacent to the site feeds into the Peel Yalgorup System.

3 FLORA AND VEGETATION

3.1 Methodology

Searches of the following databases were undertaken prior to the site survey:

- Department of Biodiversity, Conservation and Attractions (DBCA) Threatened and Priority Flora database and Threatened Ecological Communities database (Appendix 1) with a buffer radius of 10km;
- DBCA Naturemap Database (DBCA, 2021) (Appendix 2) with a buffer radius of 10km; and
- The Commonwealth Government’s Protected Matters Search Tool to identify species potentially occurring within the area that are protected under the *Environment Protection and Biodiversity Conservation (EPBC) Act 1999* (DAWE, 2021). A radius of 5km was used for this database (Appendix 3).

3.1.1 Spring Survey

A detailed spring flora and vegetation survey of the site was conducted by Dr Paul van der Moezel on 5 October, 14-15 October and 11 November 2021. Vehicle access around the site was limited, therefore most of the survey was done on foot with all vegetation types identifiable on aerial photographs surveyed. All plant species, vegetation types and vegetation condition were recorded during the survey. In addition, specific information on flora composition and vegetation structure was recorded in twenty seven 10m x 10m non-permanent quadrats in representative vegetation types.

Most plant species were identified in the field. Some specimens were photographed or taken for identification at the Perth Reference Herbarium or office using standard reference guides.

3.1.2 Survey Conditions

The conditions that the survey was undertaken in are presented in Table 2 in order to assess the adequacy of the survey. Rainfall for Keralup (Measured at Medina Research Site, Site Number 009111, approximately 4km from the site) was slightly above average for July in 2021 being 220.4mm and average in August being 183.7mm compared to mean values of 208.4mm and 182.4mm (BOM, 2021). The rainfall in September was 132mm compared to an average of 139.6mm (BOM, 2021). The above average rainfall in July is likely to have compensated for the low rainfall in August and September and is not considered to be a constraint on the survey.

Table 2: Statement of Botanical Survey Conditions

Issue	Constraints (Y/N)*	Comment
Competency/experience of the consultant conducting the survey	No	Dr Paul van der Moezel has extensive botanical survey experience on the Swan Coastal Plain, including the Karnup/Keralup region.
Proportion of the flora identified^	No	The timing of the survey in October and November was optimal to identify most flora species on the site including all potential Threatened and Priority Flora. No follow-up survey required.

Issue	Constraints (Y/N)*	Comment
Sources of information (historic/recent or new data)	No	The flora of the Swan Coastal Plain is well documented.
Proportion of the task achieved and further work that may need to be undertaken	No	No follow-up survey required as no other Threatened Flora expected to occur in other seasons.
Timing/weather/season/cycle	No	The spring survey was optimal for most flora species. 2021 was a good year for ephemeral species.
Disturbances (Fire)	No	The fire age of the vegetation was greater than 5 years
Intensity of survey (e.g. In retrospect was the intensity adequate)	No	The 4 days spent on the site, and high degree of disturbance from previous clearing and Blue Gum plantations was adequate for the amount of native vegetation on the site.
Completeness (e.g. was relevant area fully surveyed)	No	
Resources (e.g. degree of expertise available for plant identification)	No	Experienced botanist undertook most plant identifications on site.
Remoteness and/or access problems	No	Easily accessible site in the Perth Metropolitan Region
Availability of contextual (e.g. bioregional) information for the study area.	No	Bush Forever, Previous survey by Coffey Environments.

*Constraints have been rated as Significant, Moderate or No constraints

^Fungi and nonvascular flora (e.g. algae, mosses and liverworts) were not specifically surveyed for during the survey.

3.2 Desktop Studies

3.2.1 Previous Survey

A flora and vegetation survey of the greater Keralup landholding was undertaken by Coffey Environments in 2009 (Coffey Environments, 2010). The survey recorded 43 vegetation types and 302 flora species in the greater Keralup landholding, which is around 4,000ha in size.

The vegetation map prepared by Coffey Environments that covered Lot 9500 will be reviewed in this report to identify whether there have been any changes in the 12 years since the survey. A flora list specific to Lot 9500 is not available, however Coffey Environments surveyed nine quadrats in the lot which have been reviewed in terms of species present in the area. Many name changes have occurred to plant species since 2009.

Coffey Environments did not record any Threatened or Priority plant species within Lot 9500.

3.2.2 Flora Database Searches

The search of the DBCA Threatened Flora Databases were undertaken with a 15km radius from the central coordinate of the site. The flora search included the following databases:

- WA Herbarium database (WAHerb),
- Threatened and Priority Flora Species List (TFPL) (Appendix 1); and
- Naturemap (Appendix 2).

The database search indicates that a number of species that are listed as Endangered, Threatened or Priority have been recorded within the vicinity of the site.

The EPBC Act Protected Matters Search Tool (Appendix 3) identifies species listed under the EPBC Act as potentially having habitat in the area. The results from these database searches are shown in Table 3.

Table 3: Conservation Significant Flora known to occur near the Site

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act
<i>Caladenia huegelii</i>	King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid	Schedule 1	Endangered
<i>Drakaea elastica</i>	Glossy-leafed Hammer Orchid	Schedule 1	Endangered
<i>Eucalyptus x balanites</i>	Cadda Road Mallee	Schedule 1	Endangered
<i>Synaphea</i> sp. Fairbridge Farm (D Papenfus 696)	Selena's Synaphea	Schedule 1	Critically Endangered
<i>Synaphea</i> sp. Pinjarra (R. Davis 6578)	Club-leafed Synaphea	Schedule 1	
<i>Synaphea</i> sp. Serpentine (G.R Brand 103)		Schedule 1	Critically Endangered
<i>Synaphea stenoloba</i>	Dwellingup Synaphea	Schedule 1	Endangered
<i>Diuris micrantha</i>	Dwarf Bee-orchid	Schedule 2	Vulnerable
<i>Diuris purdiei</i>	Purdie's Donkey-orchid	Schedule 2	Endangered
<i>Synaphea</i> sp. Pinjarra Plain (A.S George 17182)		Schedule 2	Endangered
<i>Andersonia gracilis</i>	Slender Andersonia	Schedule 3	Endangered
<i>Diuris drummondii</i>	Tall Donkey Orchid	Schedule 3	Vulnerable
<i>Drakaea micrantha</i>	Dwarf Hammer-orchid	Schedule 3	Vulnerable
<i>Tetraria australiensis</i>	Southern Tetraria	Schedule 3	Vulnerable
<i>Acacia lasiocarpa</i> var. bracteolata long peduncle variant (G.J. Keighery 5026)		Priority 1	
<i>Stachystemon exilis</i>		Priority 1	
<i>Acacia benthamii</i>		Priority 2	
<i>Acacia oncinophylla</i> subsp. patulifolia		Priority 2	
<i>Cardamine paucijuga</i>		Priority 2	
<i>Grevillea manglesii</i> subsp. ornithopoda		Priority 2	
<i>Johnsonia pubescens</i> subsp. cygnorum		Priority 2	
<i>Phyllangium palustre</i>		Priority 2	
<i>Amanita drummondii</i>	Drummond's Grisette	Priority 3	
<i>Beyeria cinerea</i> subsp. cinerea		Priority 3	
<i>Boronia capitata</i> subsp. gracilis		Priority 3	
<i>Carex tereticaulis</i>		Priority 3	
<i>Calandrinia oraria</i>		Priority 3	
<i>Chamaescilla gibsonii</i>		Priority 3	
<i>Cyathochaeta teretifolia</i>		Priority 3	
<i>Dillwynia dillwynioides</i>		Priority 3	

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act
<i>Eryngium pinnatifidum</i> subsp. <i>Palustre</i> (G.J. Keighery 13459)		Priority 3	
<i>Jacksonia gracillima</i>		Priority 3	
<i>Lasiopetalum membranceum</i>		Priority 3	
<i>Myriophyllum echinatum</i>		Priority 3	
<i>Pimelea calcicola</i>		Priority 3	
<i>Schoenus benthamii</i>		Priority 3	
<i>Schoenus capillifolius</i>		Priority 3	
<i>Sphaerobium calcicola</i>		Priority 3	
<i>Stylidium aceratum</i>		Priority 3	
<i>Styphelia filifolia</i>		Priority 3	
<i>Acacia oncinophylla</i> subsp. <i>patulifolia</i>		Priority 4	
<i>Aponogeton hexatepalus</i>		Priority 4	
<i>Boronia tenuis</i>		Priority 4	
<i>Caladenia speciosa</i>	Sandplain White Spider Orchid	Priority 4	
<i>Calothamnus granitica</i> subsp. <i>leptophyllus</i>		Priority 4	
<i>Conostylis pauciflora</i> subsp. <i>pauciflora</i>		Priority 4	
<i>Eucalyptus rudis</i> subsp. <i>cratyantha</i>	Flooded Gum	Priority 4	
<i>Jacksonia sericea</i>	Waldjumi	Priority 4	
<i>Ornduffia submersa</i>		Priority 4	
<i>Parsonsia diaphanophleba</i>		Priority 4	
<i>Rumex drummondii</i>		Priority 4	
<i>Stylidium longitubum</i>	Jumping Jacks	Priority 4	
<i>Verticordia lindleyi</i> subsp. <i>linleyi</i>		Priority 4	

Definitions of the Conservation Codes are in Appendix 4.

The likelihood of these species occurring on the site is detailed in Table 4.

Table 4: Likelihood of Identified Significant Flora Species Occurring on the Site

Scientific Name	Common Name	Habitat*	Likelihood to occur on the site
Critically Endangered			
<i>Caladenia huegelii</i>	King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid	The Grand Spider-orchid prefers sand or clay loam. This species generally does not survive in disturbed areas.	Unlikely - This species may occur in the areas of better condition vegetation, however unlikely due to the very open understorey

Scientific Name	Common Name	Habitat*	Likelihood to occur on the site
<i>Drakaea elastica</i>	Glossy-leafed Hammer Orchid	The Glossy-leafed Hammer Orchid prefers low-lying situations adjoining winter-wet swamps. This species does not survive in disturbed areas.	Possible – The survey area contains low-lying habitat adjoining winter-wet swamps. However, the understorey is mostly disturbed thus reducing its likelihood.
<i>Eucalyptus x balanites</i>	Cadda Road Mallee	The Cadda Road Mallee prefers sandy soils with lateritic gravel.	Highly Unlikely – the site is not in the known species range and there is no lateritic gravel.
<i>Synaphea</i> sp. Fairbridge Farm (D Papenfus 696)	Selena's Synaphea	Selena's Synaphea occurs in sandy with lateritic pebbles near winter-wet flats, in low woodland with weedy grasses.	Highly Unlikely – The site does not contain lateritic pebbles near winter-wet flats
<i>Synaphea</i> sp. Pinjarra (R. Davis 6578)	Club-leafed Synaphea	Club-leafed Synaphea occurs in grey clayey sand in swamps.	Potentially occurs on the site
<i>Synaphea</i> sp. Serpentine (G.R Brand 103)		<i>Synaphea</i> sp. Serpentine occurs in brown sandy clay.	Highly Unlikely – the soils are sand with very little clay
<i>Synaphea stenoloba</i>	Dwellingup Synaphea	Dwellingup Synaphea grows in sandy or sandy clay soils on winter-wet flats, granite.	Highly Unlikely – The site has low-lying habitat, soils are sand with little clay and is outside the known range.
Endangered			
<i>Diuris micrantha</i>	Dwarf Bee-orchid	The Dwarf Bee-orchid is usually found on brown loamy clay in winter-wet swamps, in shallow water.	Potentially occurs on the site
<i>Diuris purdiei</i>	Purdie's Donkey-orchid	Purdie's Donkey Orchid occurs in grey-black sand in moist winter-wet swamps.	Potentially occurs on the site
<i>Synaphea</i> sp. Pinjarra Plain (A.S George 17182)		<i>Synaphea</i> sp. Pinjarra Plain occurs in grey sandy loam or clay, grey-brown clayey sand, brown clayey loam, laterite on flats, seasonally wet areas, railroad reserves often with wet depressions or drains.	Potentially occurs on the site

Scientific Name	Common Name	Habitat*	Likelihood to occur on the site
Vulnerable			
<i>Andersonia gracilis</i>	Slender Andersonia	Slender Andersonia occurs in white/grey sand, sandy clay, gravelly loam in winter-wet areas, near swamps.	Unlikely – The site is low-lying habitat however soils tend to be sandy with little clay and gravelly loam
<i>Diuris drummondii</i>	Tall Donkey Orchid	The Tall Donkey Orchid grows in low-lying depressions, swamps.	Potentially occurs on the site
<i>Drakaea micrantha</i>	Dwarf Hammer-orchid	Dwarf Hammer-orchid occurs in grey sands over dark, grey to blackish, sandy clay-loam substrates in winter wet depressions or swamps.	Potentially occurs on the site
<i>Tetraria australiensis</i>	Southern Tetraria	Southern Tetraria occurs in grey sand over clay; also described as yellow and sandy or clayey lateritic soils favouring winter-wet swampy depressions, drainage lines or rises surrounding swamps.	Highly Unlikely – The site is low-lying habitat however the soils are sandy with little clay and no lateritic soils
Priority 1			
<i>Acacia lasiocarpa</i> var. bracteolata long peduncle variant (G.J. Keighery 5026)		This variant of <i>Acacia lasiocarpa</i> occurs in grey or black sand over clay in swampy areas, winter wet lowlands.	Potentially occurs on the site
<i>Stachystemon exilis</i>		<i>Stachystemon exilis</i> grows in grey sand with thin litter layer (Western Australian Herbarium, 1999) and is generally in association with open, low-lying Banksia woodland in which <i>B. ilicifolia</i> is a significant component of the upper canopy (Hislop and Davies, 2020).	Highly Unlikely – not typical habitat
Priority 2			
<i>Acacia benthamii</i>		<i>Acacia benthamii</i> grows on sand, typically on limestone breakaways	Highly Unlikely – The site is not limestone
<i>Acacia oncinophylla</i> subsp. <i>patulifolia</i>		<i>Acacia oncinophylla</i> subsp. <i>oncinophylla</i> occurs in granitic soils	Highly Unlikely – The site does not have granitic soils
<i>Cardamine paucijuga</i>		<i>Cardamine paucijuga</i> is found on moist flats in calcareous clay over limestone.	Highly Unlikely – The site is not limestone

Scientific Name	Common Name	Habitat*	Likelihood to occur on the site
<i>Grevillea manglesii</i> subsp. <i>ornithopoda</i>		<i>Grevillea manglesii</i> subsp. <i>ornithopoda</i> grows amongst medium trees, or low trees, or tall (sclerophyll) shrubland, or low (sclerophyll) shrubland; in gravelly soil, or sand, or clay; occupying along creek beds.	Highly Unlikely – The site is low-lying habitat however the sandy soils are not suitable for this species
<i>Johnsonia pubescens</i> subsp. <i>cygnorum</i>		<i>Johnsonia pubescens</i> subsp. <i>cygnorum</i> occurs on grey-white-yellow sand on flats on seasonally-wet sites	Potentially occurs on the site
<i>Phyllangium palustre</i>		<i>Phyllangium palustre</i> occurs in clay on winter-wet claypans, low-lying seasonal wetlands.	Potentially occurs on the site
Priority 3			
<i>Amanita drummondii</i>	Drummond's Grisette	Drummond's Grisette is solitary to gregarious in leaf litter in association with <i>Agonis flexuosa</i> , <i>A. theiformis</i> , <i>Allocasuarina fraseriana</i> , <i>Corymbia calophylla</i> , <i>Eucalyptus marginata</i> , <i>E. patens</i> , <i>E. staeri</i> , <i>Jacksonia furcellata</i> , <i>Kunzea glabrescens</i> , <i>Melaleuca</i> sp., <i>Podocarpus drouynianus</i> , <i>Taxandria parviceps</i> . (Davidson <i>et al.</i> , 2015) growing in sandy soil (Amanitaceae Org, 2015).	Highly Unlikely – The vegetation on the site is not the preferred habitat of this species
<i>Beyeria cinerea</i> subsp. <i>cinerea</i>		<i>Beyeria cinerea</i> subsp. <i>cinerea</i> grows in sand over limestone on road verges, gullies	Highly Unlikely – The vegetation on the site is not the preferred habitat of this species
<i>Boronia capitata</i> subsp. <i>gracilis</i>		<i>Boronia capitata</i> subsp. <i>gracilis</i> occurs in white/grey or black sand on winter-wet swamps, hillslopes.	Potentially occurs on the site
<i>Carex tereticaulis</i>		<i>Carex tereticaulis</i> prefers black peaty sand.	Potentially occurs on the site
<i>Calandrinia oraria</i>		<i>Calandrinia oraria</i> is restricted to coastal habitats in low coastal heath or forbland on small white sand dunes immediately adjacent to the beach and up to 100–150 m inland in slightly larger dunes with grey or grey-brown sands (Obbens, 2014).	Highly Unlikely – The vegetation on the site is not the preferred habitat of this species

Scientific Name	Common Name	Habitat*	Likelihood to occur on the site
<i>Chamaescilla gibsonii</i>		<i>Chamaescilla gibsonii</i> grows in clay to sandy clay on winter-wet flats, shallow water-filled claypans.	Highly Unlikely – The site is low-lying habitat but does not contain clay soil types
<i>Cyathochaeta teretifolia</i>		<i>Cyathochaeta teretifolia</i> occurs in grey sand, sandy clay on swamps, creek edges.	Potentially occurs on the site
<i>Dillwynia dillwynioides</i>		<i>Dillwynia dillwynioides</i> occurs in sandy soils in winter-wet depressions.	Potentially occurs on the site
<i>Eryngium pinnatifidum</i> subsp. <i>Palustre</i> (G.J. Keighery 13459)		<i>Eryngium pinnatifidum</i> subsp. <i>Palustre</i> is recorded from a winter wet claypan, water to 20 cm deep in grey-brown clay (Western Australian Herbarium, 1989)	Highly Unlikely – The vegetation on the site is not the preferred habitat of this species
<i>Jacksonia gracillima</i>		<i>Jacksonia gracillima</i> occurs in grey and brown well-drained sand.	Potentially occurs on the site
<i>Lasiopetalum membranaceum</i>		<i>Lasiopetalum membranaceum</i> grows in sand over limestone.	Highly Unlikely – The site does not contain limestone
<i>Myriophyllum echinatum</i>		<i>Myriophyllum echinatum</i> grows in clay on winter-wet flats.	Highly Unlikely – The site is low-lying habitat but does not contain clay soils
<i>Pimelea calcicola</i>		<i>Pimelea calcicola</i> occurs in sand on coastal limestone ridges.	Highly Unlikely – The site does not contain limestone
<i>Schoenus benthamii</i>		<i>Schoenus benthamii</i> prefers white, grey sand, sandy clay in winter-wet flats, swamps.	Highly Unlikely – The site is not low-lying habitat
<i>Schoenus capillifolius</i>		<i>Schoenus capillifolius</i> grows in brown mud on claypans.	Highly Unlikely – The site is low-lying habitat but does not contain clay soils
<i>Sphaerolobium calcicola</i>		<i>Sphaerolobium calcicola</i> grows in white-grey-brown sand, sandy clay over limestone, black peaty sandy clay on tall dunes, winter-wet flats, interdunal swamps, low-lying areas.	Potentially occurs on the site
<i>Stylidium aceratum</i>		<i>Stylidium aceratum</i> occurs in sandy soils in swamp heathland.	Potentially occurs on the site

Scientific Name	Common Name	Habitat*	Likelihood to occur on the site
<i>Styphelia filifolia</i>		<i>Styphelia filifolia</i> occurs in sandy soils of the coastal plain (with one known occurrence from the northern Darling Scarp), usually in Banksia or Jarrah woodland and in low-lying situations (Hislop and Lelièvre, 2017).	Highly Unlikely – The vegetation on the site is not the preferred habitat of this species
Priority 4			
<i>Acacia oncinophylla</i> subsp. <i>patulifolia</i>		<i>Acacia oncinophylla</i> subsp. <i>patulifolia</i> occurs on granitic soils, occasionally on laterite.	Highly Unlikely – The vegetation on the site is not the preferred habitat of this species
<i>Aponogeton hexatepalus</i>		Stalked Water Ribbons grow in freshwater: ponds, rivers, claypans	Potentially occurs on the site
<i>Boronia tenuis</i>		Blue Boronia prefers laterite, stony soils, granite.	Highly Unlikely – The soils on the site are not the preferred habitat of this species
<i>Caladenia speciosa</i>	Sandplain White Spider Orchid	Sandplain White Spider Orchid occurs in white, grey or black sand.	Potentially occurs on the site
<i>Calothamnus granitica</i> subsp. <i>leptophyllus</i>		<i>Calothamnus granitica</i> subsp. <i>leptophyllus</i> occurs in clay over granite, lateritic soils on hillsides.	Highly Unlikely – The soils on the site are not the preferred habitat of this species
<i>Conostylis pauciflora</i> subsp. <i>pauciflora</i>		<i>Conostylis pauciflora</i> subsp. <i>pauciflora</i> occurs in grey sand, limestone on hillslopes, consolidated dunes in coastal areas.	Highly Unlikely – The vegetation on the site is not the preferred habitat of this species
<i>Eucalyptus rudis</i> subsp. <i>cratyantha</i>	Flooded Gum	<i>Eucalyptus rudis</i> subsp. <i>cratyantha</i> grows in loam on flats, hillsides.	Potentially occurs on the site although the soils are not loamy
<i>Jacksonia sericea</i>	Waldjumi	Waldjumi grows in calcareous and sandy soils.	Potentially occurs on the site
<i>Ornduffia submersa</i>		<i>Ornduffia submersa</i> grows in freshwater 0.05-0.6 m deep. Pools, lakes, swamps, winter-wet depressions, claypans.	Potentially occurs on the site
<i>Parsonsia diaphanophleba</i>		<i>Parsonsia diaphanophleba</i> occurs in alluvial soils along rivers.	Potentially occurs on the site
<i>Rumex drummondii</i>		<i>Rumex drummondii</i> occurs in winter-wet disturbed areas.	Potentially occurs on the site
<i>Stylidium longitubum</i>	Jumping Jacks	Jumping Jacks prefer sandy clay, clay in seasonal wetlands.	Potentially occurs on the site however soils do not contain clay

Scientific Name	Common Name	Habitat*	Likelihood to occur on the site
<i>Verticordia lindleyi</i> subsp. <i>lindleyi</i>		<i>Verticordia lindleyi</i> subsp. <i>lindleyi</i> prefers sand, sandy clay in winter-wet depressions.	Potentially occurs on the site

* sourced from Florabase, DBCA database searches and SPRAT (DoEE, 2018) unless otherwise denoted

Of the 51 species identified in the database search there is the potential for 6 Threatened (Scheduled) and 20 Priority species to occur on the site.

3.2.3 TEC/PEC Database Searches

A search of DBCA's Threatened (TEC) and Priority Ecological Communities (PEC) database was conducted within a radius of 10km radius around the site (Appendix 5). Six conservation significant Ecological Communities were identified as potentially occurring in the region (Table 5).

Table 5: TEC and PECs identified in database searches within 5km of the site

Number	Description	Conservation Status in WA	Status under the EPBC Act
Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered
Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh	Priority 3	Vulnerable
SCP08	Herb rich shrublands in clay pans (floristic community type 8 as originally described in Gibson et al. (1994))	Vulnerable	Critically Endangered
SCP15	Forests and woodlands of deep seasonal wetlands of the Swan Coastal Plain (floristic community type 15 as originally described in Gibson et al. (1994))	Vulnerable	
SCP19a	Sedgeland in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in Gibson et al. (1994))	Critically Endangered	Endangered
SCP19b	Sedgeland in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in Gibson et al. (1994))	Critically Endangered	Endangered
SCP24	Northern Spearwood shrublands and woodlands	Priority 3	
SCP25	Southern <i>Eucalyptus gomphocephala</i> - <i>Agonis flexuosa</i> woodlands	Priority 3	
SCP29a	Coastal shrublands on shallow sands	Priority 3	
Tuart Woodlands	Tuart (<i>Eucalyptus gomphocephala</i>) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered

3.3 Flora

A total of 127 plant species were recorded from the site. The total included 86 native and 41 introduced species (Appendix 7). The relatively high percentage of introduced species (32.3%) reflects the large areas of previously cleared land.

The plant Families most represented on the site were the Fabaceae (Wattle and Pea Family – 16 species including 12 native and 4 introduced), Myrtaceae (Myrtle Family - 15 species, including 13 native and 2 introduced), Poaceae (Grass Family – 12 species, all introduced), Asteraceae (Daisy Family – 11 species, 4 native, 7 introduced), and Orchidaceae (Orchid Family – 7 species, 6 native and 1 introduced).

Species richness in the 27 quadrats was very low, ranging from 7-21 (average 12.0), with an average of 7.1 native species per quadrat. The low number of native species is indicative of the wetland vegetation types and high degree of disturbance over most of the site.

3.4 Vegetation

3.4.1 Bioregional Data

The Australian environment has been categorised into biogeographic regions (based on geology, landform, vegetation, fauna and climate) known as IBRA (Interim Biogeographic Regionalisation for Australia) regions. Based on IBRA mapping, the subject land lies within the Perth subregion of the Swan Coastal Plain bioregion.

The Swan Coastal Plain bioregion is comprised mainly of woodlands dominated by *Banksia* species or *Eucalyptus gomphocephala* (Tuart) on low-lying sandy soils, with *Allocasuarina obesa* (Swamp Sheoak) on outwash plains and *Melaleuca* species (Paperbarks) in swampy areas. The eastern side is dominated by *Eucalyptus marginata* (Jarrah) woodlands on higher elevations of duricrusted Mesozoic sediments, while three sets of dune formations line the coastal area (Thackway and Cresswell, 1995).

The Perth Subregion is composed of heath and/or *Eucalyptus gomphocephala* (Tuart) woodlands on limestone, *Banksia* and *Eucalyptus marginata* (Jarrah) woodlands on quaternary marine dunes of various ages and *Corymbia calophylla* (Marri) on colluvial and alluvial soils. The Perth Subregion includes a complex series of seasonal wetlands (DEC, 2002).

3.4.2 Beard's Vegetation Mapping

According to Beard (1990) the vegetation on the site is located within the Drummond Botanical Subdistrict of the Swan Coastal Plain Subregion. The Drummond Botanical Subdistrict is mainly comprised of *Banksia* low woodland on leached sands with *Melaleuca* swamps where ill-drained; woodland of *Eucalyptus gomphocephala* (Tuart), *Eucalyptus marginata* (Jarrah) and *Corymbia calophylla* (Marri) on less leached soils.

Beard (1979) maps the vegetation types on the site as mosaic of *Eucalyptus marginata* (Jarrah) – *Corymbia calophylla* (Marri) Woodland / *Banksia attenuata* – *B. menziesii* Low Woodland / Paperbark Low forest of *Melaleuca rhamniphylla* and *M. cuticularis*.

3.4.3 Vegetation Complex

The vegetation occurring within the site is mapped as part of the Bassendean - Central and South vegetation complex which is described as follows (Hedde et al., 1980):

- Bassendean Complex Central and South: Vegetation ranges from Woodland of *Eucalyptus marginata* - *Allocasuarina fraseriana* - *Banksia* spp. to Low Woodland of *Melaleuca* spp. and Sedgelands on the moister sites. This area includes the transition of *Eucalyptus marginata* to *Eucalyptus todtiana* in the vicinity of Perth. This complex is mapped as occurring over the site.

The vegetation on the site meets the general description of this vegetation complex.

Approximately, 26.87% of this complex is remaining in the Perth Metropolitan Region of the Swan Coastal Plain (DBCA, 2019).

3.4.4 Vegetation Types

Vegetation types are described using the structure (eg. woodland, shrubland) and dominant species in each structure. The vegetation type level of description is used to map the vegetation at a small scale such as in this survey.

PGV Environmental mapped 14 vegetation types in the survey area as shown on Figure 5 and described below in Table 6. Quadrat data is provided in Appendix 6.



3.4.5 Comparison to Coffey Environments Map



The mapping of areas of remnant vegetation in this survey was very similar to the mapping undertaken by Coffey Environments in their 2009 survey.



Some areas mapped by Coffey Environments as Cleared Pasture are now mapped by PGV Environmental as *Kunzea glabrescens* Scattered Shrubs. This represents regeneration of *Kunzea glabrescens* in the intervening 15 years between the surveys most likely due to the removal of grazing from the eastern side.



The old Bluegum plantations were mapped by Coffey Environments as partly just *Eucalyptus globulus* (Tasmanian Bluegum) Plantation and partly as *E. globulus* with *Astartea affinis* (*A. scoparia* in their survey) and *Juncus pallidus* as well as *Hypocalymma angustifolia*. The description is very similar to the EgKg vegetation unit used in this survey. It is likely that the density of the native shrubs has increased since the 2009 Coffey Environments' survey.



Table 6: Vegetation Types on the Site



Vegetation Type	Description	Photograph
<p>EmXo <i>Eucalyptus marginata</i> Woodland over <i>Xylomelum occidentale</i> Low Open Woodland over <i>Hibbertia hypericoides</i> Low Shrubland</p>	<p>This vegetation type occurs on elevated parts in the north-east part of the site. <i>Eucalyptus marginata</i> (Jarrah) is usually present up to 10-15m high but can be absent in some areas. <i>Xylomelum occidentale</i> (Woody Pear) is a mid-canopy tree to 5-6m and <i>Kunzea glabrescens</i> is occasionally present. The understorey is low with only a couple of common native species <i>Hibbertia hypericoides</i> and <i>Dasypogon bromeliifolius</i> and many introduced species including <i>Ehrharta longiflora</i>, <i>Carpobrotus edulis</i> and <i>Hypochaeris glabra</i>.</p> <p>The soils are brown sand.</p> <p>Quadrats K3 and 4 are representative of this vegetation type</p>	
<p>EgKg <i>Eucalyptus globulus</i> Woodland over <i>Kunzea glabrescens</i> Tall Shrubland over <i>Astartea affinis</i> Shrubland</p>	<p>This vegetation type represents the areas that were previously planted as a Bluegum (<i>Eucalyptus globulus</i>) plantation. Many areas contain mature regrowth Bluegum trees 15-18m tall. A tall shrub layer of <i>Kunzea glabrescens</i> to 3m and <i>Astartea affinis</i> 1.5-2m is regenerating in most of the old plantation area. The understorey is sparse and retains the parallel ridges upon which the original Bluegums were planted. Several native understorey species including <i>Astartea affinis</i>, <i>Hypocalymma angustifolium</i>, <i>Juncus pallidus</i>, <i>Drosera glanduligera</i> and <i>Lepidosperma longitudinale</i> indicate the Bluegums were planted in wetland areas.</p> <p>The soils are dark brown – black loamy sand.</p> <p>Quadrats K11, 13, 16 and 17 are representative of this vegetation type</p>	



Vegetation Type	Description	Photograph
<p>MpAa <i>Melaleuca preissiana</i> Low Open Woodland to Forest over <i>Astartea affinis</i> Open Heath</p>	<p>This vegetation type occurs along linear depressions that are seasonally moist. <i>Melaleuca preissiana</i> (Paperbark) is up to 10m high and can be sparse to dense. Common species in the understorey include <i>Astartea affinis</i>, <i>Lepidosperma longitudinale</i>, <i>Hypocalymma angustifolium</i> and <i>Juncus pallidus</i>.</p> <p>The soils are moist, black peaty sand to sandy loam.</p> <p>Quadrats K9, 10 and 18 are representative of this vegetation type</p>	
<p>MpKg <i>Melaleuca preissiana</i> Open to Low Open Forest over <i>Kunzea glabrescens</i> Tall Open Shrubland over <i>Astartea affinis/Regelia ciliata</i> Open Heath over <i>Lepidosperma longitudinale</i> Sedgeland</p>	<p>Similar to the MpAa vegetation type but containing <i>Kunzea glabrescens</i> as a common tall shrub. <i>Astartea affinis</i> is always present. Occurs in low-lying parts of the site that are more waterlogged in winter than other areas. <i>Melaleuca preissiana</i> (Paperbark) is 6-14m high. Common understorey species include <i>Hypocalymma angustifolium</i>, <i>Regelia ciliata</i>, <i>Dielsia stenostachya</i>, <i>Lepidosperma longitudinale</i> and occasional <i>Xanthorrhoea preissii</i>.</p> <p>The soils are moist, dark peaty sand and loam.</p> <p>Quadrats K2, 6 and 14 are representative of this vegetation type</p>	

Vegetation Type	Description	Photograph
<p>KgAa <i>Kunzea glabrescens</i> Tall Open Scrub over <i>Astartea affinis</i> Open Heath</p>	<p>A common vegetation type in the low-lying eastern parts of the site. <i>Kunzea glabrescens</i> is sparse to moderately dense (10-50%) and up to 5m high. <i>Astartea affinis</i> is often present as is <i>Juncus pallidus</i></p> <p>The soils are</p> <p>Quadrats K7, 20, 21 and 23 are representative of this vegetation type</p>	
<p>Aa <i>Astartea affinis</i> Closed Heath</p>	<p>Three small areas of this vegetation type occur at the northeastern end of the site in small depressions. <i>Astartea affinis</i> is dense (90% cover) and around 1.5m high. Wetland shrubs species present include <i>Hypocalymma angustifolium</i>, <i>Aotus gracillima</i> and <i>Lepidosperma longitudinale</i>.</p> <p>The soils are moist, black peaty sand.</p> <p>Quadrat K1 is representative of this vegetation type</p>	

Vegetation Type	Description	Photograph
<p>AaJp <i>Astartea affinis</i> Closed Tall Scrub over <i>Juncus pallidus</i> Very Open Sedgeland</p>	<p>This vegetation type is superficially similar to the Aa type but occurs on waterlogged flats rather than circular depressions. The unit is widespread in the western and central parts of the site. The understorey is mostly pasture species with some native <i>Juncus pallidus</i>.</p> <p>The soils are moist, black sandy clay.</p> <p>Quadrat K26 is representative of this vegetation type</p>	
<p>Jp <i>Juncus pallidus</i> sedgeland</p>	<p>Similar to the AaJp unit but with very few native shrubs. <i>Juncus pallidus</i> is up to 1-1.2m high over pasture species.</p> <p>The soils are moist, black sandy clay.</p>	

Vegetation Type	Description	Photograph
<p>ErKg <i>Eucalyptus rudis</i> Open Forest over <i>Kunzea glabrescens</i> Tall Shrubland over <i>Astartea affinis</i> Open Shrubland over <i>Lepidosperma longitudinale</i> Very Open Sedgeland</p>	<p>Two areas of this vegetation type are mapped in the south-east and south-west part of the site. The south-east area is more intact and includes <i>Eucalyptus rudis</i> trees to 15m high over <i>Kunzea glabrescens</i> to 4m and <i>Astartea affinis</i> to 1.6m. The understorey is almost bare with some scattered <i>Lepidosperma longitudinale</i> sedges.</p> <p>The soils are dark sandy loam to sandy clay.</p> <p>Quadrats K22 and 27 are representative of this vegetation type</p>	
<p>ErMr <i>Eucalyptus rudis</i> Open Forest over <i>Melaleuca raphiophylla</i> Low Open Forest over <i>Lepidosperma longitudinale</i> Sedgeland</p>	<p>One area of this vegetation type was recorded near the southeastern boundary of the site. The vegetation type differs from other types containing <i>Eucalyptus rudis</i> by the presence of tall <i>Melaleuca raphiophylla</i> trees due to the clay soil type and level of inundation. <i>Juncus pallidus</i> and <i>Lepidosperma longitudinale</i> sedges are the main native understorey species.</p> <p>The soils are clay and inundated to 0.1m at the time of survey.</p> <p>Quadrat K24 is representative of this vegetation type</p>	

Vegetation Type	Description	Photograph
<p>ErCcMp <i>Eucalyptus rudis</i>/<i>Corymbia calophylla</i> Open Forest over <i>Melaleuca preissiana</i> Low Open Woodland over <i>Astartea affinis</i> Shrubland over <i>Lepidosperma longitudinale</i></p>	<p>Two areas containing this vegetation type were mapped in the central part of the site. <i>Eucalyptus rudis</i> is the dominant tree up to 27m high, with <i>Corymbia calophylla</i> occasionally present. <i>Melaleuca preissiana</i> occurred to 12m high and at low canopy cover. Common understory species included <i>Astartea affinis</i>, <i>Lepidosperma longitudinale</i> and <i>Dielsia stenostachya</i>.</p> <p>The soils are dark brown loamy sand.</p> <p>Quadrats K8 and 19 are representative of this vegetation type</p>	
<p>Mr <i>Melaleuca raphiophylla</i> Low Open Forest over <i>Melaleuca teretifolia</i>/<i>Kunzea glabrescens</i> Tall Shrubland over <i>Juncus pallidus</i> Open Sedgeland</p>	<p>This vegetation type occurs on heavy soils that are inundated in winter, sometimes as part of an ephemeral creekline. <i>Melaleuca raphiophylla</i> <i>Melaleuca teretifolia</i> is often present, indicative of the clay soils and <i>Machaerina juncea</i> is common which indicates wet conditions for several months.</p> <p>The soils are inundated, black peaty sand and clay.</p> <p>Quadrats K12, 15 and 25 are representative of this vegetation type</p>	
<p>Er <i>Eucalyptus rudis</i> Scattered Trees</p>	<p>An area of scattered <i>Eucalyptus rudis</i> trees occurs in the south-west corner of the site in a cleared paddock</p>	<p>No photo</p>
<p>Mp <i>Melaleuca preissiana</i> Scattered Trees</p>	<p>An area of scattered <i>Melaleuca preissiana</i> trees occurs on one part of the site in a low-lying cleared paddock.</p>	<p>No photo</p>

Vegetation Type	Description	Photograph
<p>Kg <i>Kunzea glabrescens</i> Scattered Shrubs</p>	<p><i>Kunzea glabrescens</i> shrubs occur at low-moderate density in some areas that were previously cleared (but not blue gum plantation). <i>Jacksonia furcellata</i> and <i>Adenanthos cygnorum</i> (Woolly Bush) shrubs are also common. Few native species are regenerating in the ground cover which is mostly introduced grasses, Capeweed (<i>Arctotheca calendula</i>) and Pigface (<i>Carpobrotus edulis</i>) on the eastern dry sandy soils and pasture species in the western low-lying areas.</p> <p>Quadrat K5 is representative of a dense area of this vegetation type.</p>	
<p>Bare</p>	<p>The bare areas mapped on the eastern part of the site mostly occur on slightly elevated sandy dunes. The sandy soils are often covered with the native annual <i>Podotheca gnaphalioides</i> as well as introduced grass species, Capeweed (<i>Arctotheca calendula</i>) and Pigface (<i>Carpobrotus edulis</i>). Occasional <i>Kunzea glabrescens</i> shrubs occur in these areas.</p> <p>The bare areas on the western part of the site contain pasture grasses on low-lying loamy sands.</p>	

3.4.6 Vegetation Condition

The condition of the vegetation was assessed according to the system devised by Keighery and described in Bush Forever (Government of Western Australia, 2000) (Table 7).

The condition of the vegetation ranged from Completely Degraded to Excellent.

The areas of Excellent vegetation were restricted to some wetlands at the northern part of the site including one linear north-south wetland and four depressions in the north-east corner.

The other areas of remnant vegetation are rated mostly as Good or Very Good depending on the density of weeds in the understorey.

The old Bluegum plantations are hard to rate as it is difficult to interpret from historical aerial photography what the original vegetation was prior to clearing these areas. The native shrub species *Kunzea glabrescens* and *Astartea affinis* are abundant in the old plantation which indicates these areas are regenerating to their original structure. However, many *Eucalyptus globulus* trees occur in the plantation areas and the soils retain the parallel mounds and furrows created to plant the Bluegums many years ago. Therefore, a rating of Good has been given for those areas where the native shrubs are quite dense and Degraded for areas containing fewer native species.

Table 7: Vegetation Condition Rating Scale.

Condition	Description
Pristine	Pristine or nearly so, no obvious signs of disturbance.
Excellent	Vegetation structure intact, disturbance affecting individual species and weeds are non-aggressive species.
Very Good	Vegetation structure altered, obvious signs of disturbance. For example, disturbance to vegetation structure caused by repeated fires, the presence of some more aggressive weeds, dieback, logging and grazing.
Good	Vegetation structure significantly altered by very obvious signs of multiple disturbance. Retains basic vegetation structure or ability to regenerate it. For example, disturbance to vegetation structure caused by very frequent fires, the presence of some very aggressive weeds at high density, partial clearing, dieback and grazing.
Degraded	Basic vegetation structure severely impacted by disturbance. Scope for regeneration but not to a state approaching good condition without intensive management. For example, disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds, partial clearing, dieback and grazing.
Completely Degraded	The structure of the vegetation is no longer intact and the area is completely or almost completely without native species. These are often described as 'parkland cleared' with the flora comprising weed or crop species with isolated native trees or shrubs.

Source: Government of Western Australia, 2000.

3.5 Conservation Significance of Flora and Vegetation

3.5.1 Flora

A total of 26 Threatened and Priority species were identified as having potential to occur on the site. No Threatened or Priority species were recorded in the survey. Coffey Environments did not record any Threatened or Priority species on Lot 9500 in their 2009 survey.

3.5.2 Vegetation

Vegetation Complex

The vegetation on the site is part of the Bassendean - Central and South Vegetation Complex. There is approximately 10,919ha (26.87%) of the pre-European extent of the Bassendean Complex-Central and South remaining on the Swan Coastal Plain portion of the Perth Metropolitan Region (DBCA, 2019). The percentage protection is above the 10% minimum criteria for vegetation complexes in the Perth Metropolitan Region Constrained Area.

Floristic Community Type

Most of the Threatened Ecological Communities (TECs) and Priority Ecological Communities (PECs) on the southern Swan Coastal Plain are based on the Floristic Community Type (FCT) level of vegetation description (Gibson *et al.*, 1994). FCT determination is best done using computer analysis of quadrat data. However, in this case computer analysis of the quadrat data was not undertaken due to the very low species richness of the quadrats (average 12.0 species, including 7.1 native and 4.9 introduced species). The low species richness and high percentage of introduced species is highly unlikely to result in a conclusive result.

Coffey Environments (2010) undertook computer analysis of the 42 quadrats sampled from the greater Keralup site and found difficulty in arriving at a conclusive decision for most of the quadrats due to the low species richness. Coffey Environment concluded that the most likely Floristic Community Types that occur on the Keralup site are:

- FCT11 'Wet forests and woodland'; and
- FCT 12 '*Melaleuca teretifolia* and/or *Astartea* aff. *fascicularis* shrublands'
- FCT 6 'Weed dominated wetland on heavy soils'

As the vegetation types sampled by PGV Environmental are very similar to those sampled by Coffey Environments, we consider the same three FCTs are likely to occur on Lot 9500.

None of the FCTs is a Threatened or Priority Ecological Community.

3.5.3 Wetland Vegetation

As described in Section 2.4.3 the vast majority of the site is mapped as wetland including large areas of Multiple Use wetlands, Resource Enhancement wetlands and several small to medium sized Conservation Category wetlands.

The vegetation mapping undertaken for this survey confirms that most of the vegetation on the site is wetland vegetation. Areas of upland vegetation (limited to the EmXo vegetation type and bare

dunes) correspond reasonably well to the areas mapped as dryland on the DBCA Geomorphic Wetland dataset.

An assessment of the management category of the wetlands, based on the extent and condition of native vegetation within the wetlands is summarised in Table 8 within the mapped wetlands. Most of the wetland management categories were considered appropriate. Two RE wetlands (14700 and 15854) had vegetation in Excellent condition and were considered appropriate to upgrade to Conservation Category. One small CCW (15860) contained *Astartea affinis* vegetation in Good condition which was very similar to many other areas on the site mapped as REW. A reclassification of this wetland to REW is recommended.

Table 8: Geomorphic Wetland Assessment

Wetland ID	Wetland Type	Management Category	Vegetation Condition	Comment
16021	Palusplain	Multiple Use	Large wetland Mostly Degraded to Completely Degraded	MU category appropriate
14702	Palusplain	Multiple Use	Degraded	MU category appropriate
14700	Dampland	Resource Enhancement	Excellent	Upgrade to CCW
15852	Palusplain	Resource Enhancement	Mostly Degraded to Good	Borderline RE/MU
15849	Sumpland	Resource Enhancement	Degraded to Good, but large area of inundation	RE appropriate
15853	Palusplain	Resource Enhancement	Large wetland, Completely Degraded to Good with some G-VG	RE appropriate apart from old Bluegum plantation areas
15854	Palusplain	Resource Enhancement	Excellent to Very Good	Upgrade to CCW
14654	Sumpland	Conservation	Very Good to Good	CCW appropriate
15856	Palusplain	Conservation	Very Good to Degraded	Borderline CCW/RE
15857	Palusplain	Conservation	Very Good to Good	CCW appropriate
14698	Palusplain	Conservation	Excellent	CCW appropriate, could be extended further south
15858	Palusplain	Conservation	Excellent	CCW appropriate
15860	Sumpland	Conservation	Good	Reclassify to REW

The large areas of old Bluegum plantation are nearly all rated as Multiple Use wetlands apart from two portions of REW 15853 that extend into the northeastern plantation area. The vegetation in these parts of the old Bluegum plantation are rated as Degraded and do not justify the RE rating.

4 FAUNA

4.1 Methodology

The Basic 1 Fauna Survey was undertaken in accordance with EPA Technical Guidance *Fauna Surveys for Environmental Impact Assessment* (EPA, 2016b). Desktop studies were undertaken to identify habitats and potential threatened species that may occur on the site. An assessment of the fauna habitats on the site was conducted by PGV Environmental during field conducted from October to November 2021.

4.2 Desktop Studies

Desktop studies were undertaken to identify conservation significant species potentially present on the site. A search of the DBCA Database (Appendix 8), Naturemap database (Appendix 2) and the EPBC Act Protected Matters Search Tool (Appendix 3) identified threatened species of fauna listed as potentially occurring within a 10km radius of the site (Table 9). Marine fauna have not been included in the assessment as the site is 8km from the coast.

Table 9: List of Fauna Species Identified from Fauna Database Searches

Scientific Name	Common Name	Conservation Status, WA	Status under EPBC Act
<i>Calidris ferruginea</i>	Curlew Sandpiper	Schedule 1 - CR	Critically Endangered
<i>Phascogale tapoatafa wambenger</i>	South-western brush-tailed phascogale, wambenger	Schedule 1 - CR	
<i>Bettongia penicillata ogilbyi</i>	Woylie	Schedule 1 Cr	Endangered
<i>Limosa lapponica menzbieri</i>	Bar-tailed Godwit (northern Siberian)	Schedule 1 - CR	Marine/ Migratory
<i>Numenius madagascariensis</i>	Eastern Curlew	Schedule 1 - CR	Critically Endangered
<i>Pseudocheirus occidentalis</i>	Western Ringtail Possum, Ngwayir	Schedule 1 - CR	Critically Endangered
<i>Botaurus poiciloptilus</i>	Australasian bittern	Schedule 2 - EN	Endangered
<i>Calidris canutus</i>	Red Knot	Schedule 2 - EN	Marine/ Migratory
<i>Calyptorhynchus baudinii</i>	Baudin's Black Cockatoo	Schedule 2 - EN	Endangered
<i>Calyptorhynchus latirostris</i>	Carnaby's Black Cockatoo	Schedule 2 - EN	Endangered
<i>Myrmecobius fasciatus</i>	Numbat, Walpuriti	Schedule 2 - EN	Endangered
<i>Rostratula australis (Rostratula benghalensis australis)</i>	Australian Painted Snipe	Schedule 2 - EN	Endangered Marine/ Migratory
<i>Calyptorhynchus banksii naso</i>	Forest Red-tailed Black-Cockatoo	Schedule 3 - VU	Vulnerable
<i>Charadrius leschenaultii</i>	Greater Sand Plover	Schedule 3 - VU Schedule 5 - IA	Vulnerable

Scientific Name	Common Name	Conservation Status, WA	Status under EPBC Act
<i>Dasyurus geoffroii</i>	Chuditch, Western Quoll	Schedule 3 - VU	Vulnerable
<i>Leipoa ocellata</i>	Mallee Fowl	Schedule 3 - VU	Vulnerable
<i>Setonix brachyurus</i>	Quokka	Schedule 3 - VU	Vulnerable
<i>Westralunio carteri</i>	Carter's Freshwater Mussel	Schedule 3 - VU	Vulnerable
<i>Falco hypoleucos</i>	Grey Falcon	Schedule 3 - VU	Vulnerable
<i>Actitis hypoleucos (Tringa hypoleucos)</i>	Common Sandpiper	Schedule 5 - IA	Marine/ Migratory
<i>Anous stolidus</i>	Common Noddy	Schedule 5 - IA	
<i>Apus pacificus</i>	Fork-tailed Swift	Schedule 5 - IA	Marine/Migratory
<i>Calidris acuminata</i>	Sharp-tailed Sandpiper	Schedule 5 - IA	Marine/ Migratory
<i>Calidris melanotos</i>	Pectoral Sandpiper	Schedule 5 - IA	Marine/ Migratory
<i>Calidris ruficollis</i>	Red-necked Stint	Schedule 5 - IA	Marine/ Migratory
<i>Calidris subminuta</i>	Long-toed Stint	Schedule 5 - IA	Marine/ Migratory
<i>Calidris acuminata</i>	Sharp-tailed SandPiper	Schedule 5 - IA	Marine/ Migratory
<i>Limosa lapponica</i>	Bar-tailed Godwit	Schedule 5 - IA	Marine/ Migratory
<i>Limosa limosa</i>	Black-tailed Godwit	Schedule 5 - IA	Migratory/ Marine
<i>Motacilla cinerea</i>	Grey Wagtail	Schedule 5 - IA	Migratory/ Marine
<i>Pandion cristatus (Pandion haliaetus)</i>	Osprey	Schedule 5 - IA	Marine/ Migratory
<i>Philomachus pugnax</i>	Ruff	Schedule 5 - IA	Marine/ Migratory
<i>Plegadis falcinellus</i>	Glossy Ibis	Schedule 5 - IA	Marine/Migratory
<i>Thalasseus bergii (Sterna bergii)</i>	Crested Tern	Schedule 5 - IA	Marine/ Migratory
<i>Tringa glareola</i>	Wood Sandpiper	Schedule 5 - IA	Marine/ Migratory
<i>Tringa nebularia</i>	Common Greenshank	Schedule 5 - IA	Marine/ Migratory
<i>Tringa stagnatilis</i>	Marsh Sandpiper, Little Greenshank	Schedule 5 - IA	Marine/ Migratory
<i>Ardea alba (Ardea modesta)</i>	Great Egret, White Egret		Marine
<i>Ardea ibis</i>	Cattle Egret		Marine
<i>Haliaeetus leucogaster</i>	White-bellied Sea-eagle		Marine
<i>Merops ornatus</i>	Rainbow Bee-eater		Marine
<i>Idiosoma sigillatum</i>	Swan Coastal Plain shield-backed trapdoor spider	Priority 3	
<i>Lerista lineata</i>	Perth Slider, Lined Skink	Priority 3	
<i>Neelaps calonotus</i>	Black Striped Snake	Priority 3	
<i>Isoodon fusciventer</i>	Southern Brown Bandicoot, Quenda	Priority 4	
<i>Hydromys chrysogaster</i>	Water Rat, Rakali	Priority 4	
<i>Oxyura australis</i>	Blue-billed Duck	Priority 4	
<i>Thinornis rubricollis (Charadrius rubricollis)</i>	Hooded Plover	Priority 4	Marine
<i>Tringa brevipes</i>	Grey Tailed Tattler	Priority 4	

Fauna are classified under five different Priority codes and rare and endangered fauna are classified under the *Wildlife Conservation (Specially Protected Fauna) Notice 2014* into five schedules of taxa. These are outlined in Appendix 4.

4.3 Fauna Habitat

Six fauna habitats were described on the site as listed in Table 10.

Table 10: Fauna Habitat Types found on the Site

Fauna Habitat types	Habitat	
	Soils	Vegetation
Open paddock with <i>Juncus pallidus</i> (Plate 5)	Sandy clay	<i>Juncus pallidus</i> in paddock with occasional <i>Astartea affinis</i> , often on edge of wetland area
Paddock with mixed shrubland (Plate 6)	Sandy	Mixed shrubland up to 3m dominated by <i>Astartea affinis</i> , some of which is regrowth
Remnant woodland on sand (Plate 7)	Sandy	Open woodland with Jarrah, Marri woodland with a dry understorey
Remnant woodland with dense wetland understorey (Plate 8)	Loamy and moist/peat	Woodland comprising moist, dense understorey with Flooded Gums, Marri trees or some <i>Melaleuca preissiana</i>
Melaleuca and remnant woodland with wetland understorey (Plate 9)	Loamy and moist/peat	Woodland dominated by <i>Melaleuca</i> and Flooded Gums, with moist, dense understorey
Open Water Habitat (Plate 10)	Inundated	Emergent <i>Melaleuca raphiophylla</i> in water

Plate 5: Open Paddock with *Juncus pallidus*



Plate 6: Paddock with mixed shrubland



Plate 7: Remnant woodland on sand



Plate 8: Remnant woodland with dense wetland understorey



Plate 9: Melaleuca and remnant woodland with wetland understorey



Plate 10: Open Water Habitat



Fauna habitat can be assessed using a number of factors including, the size of the habitat, the level of habitat connectivity, availability of specific resources (e.g. tree hollows) and overall vegetation quality. The fauna habitat found on the site was assessed according to the categories in Table 11 (Coffey Environments, 2009).

Table 11: Fauna Habitat Quality

Fauna Habitat Quality	Description
High Quality	These areas closely approximate the vegetation mix and quality that would have been in the area prior to any disturbance. The habitat has connectivity with other habitats and is likely to contain the most natural vertebrate fauna assemblage.
Very Good	These areas show minimal signs of disturbance (e.g. grazing, clearing, fragmentation, weeds) and generally retain many of the characteristics of the habitat if it had not been disturbed. The habitat has connectivity with other habitats and fauna assemblages in these areas are likely to be minimally affected by disturbance.
Good Fauna	These areas showed signs of disturbance (e.g. grazing, clearing, fragmentation, weeds) but generally retain many of the characteristics of the habitat if it had not been disturbed. The habitat has connectivity with other habitats and fauna assemblages in these areas are likely to be affected by disturbance.
Disturbed	These areas showed signs of significant disturbance. Many of the trees, shrubs and undergrowth are cleared. These areas may be in the early succession and regeneration stages. Areas may show signs of significant grazing, contain weeds or have been damaged by vehicle or machinery. Habitats are fragmented or have limited connectivity with other fauna habitats. Fauna assemblages in these areas are likely to differ significantly from what might be expected in the area had the disturbance not occurred.
Highly Degraded	These areas often have a significant loss of vegetation, an abundance of weeds, and a large number of vehicle tracks or are completely cleared. Limited or no fauna habitat connectivity. Faunal assemblages in these areas are likely to be significantly different to what might have been in the area pre-disturbance. (Coffey Environments, 2009).

Areas of remnant vegetation with Very Good and Excellent vegetation are rated as High quality fauna habitat due to the intact structure of the vegetation and most are linked to other areas of vegetation within the site and off-site.

Areas of remnant vegetation in Good condition are rated as Good to Very Good Fauna habitat as most are linked to other areas of vegetation even though there is a high proportion of weeds in the understorey.

Completely Degraded areas are rated as Disturbed rather than Highly Degraded as these areas are linked closely to areas of remnant vegetation.

4.4 Conservation Significant Species

4.4.1 Database Searches

Outlined below in Table 12 is a short description of the preferred habitat for each of the species that were identified in the DBCA Database Search (Appendix 8), NatureMap Species Report (Appendix 2) and the EPBC Protected Matters Search Tool (Appendix 3) in Table 9. The preferred habitat has been compared to the habitats on the site described above and the likelihood of each species to be present was determined.

Table 12: Preferred Habitat of Conservation Significant Fauna Species

Scientific Name	Common Name	Habitat*	Likelihood of occurring on the site
Schedule 1 - CR			
<i>Bettongia penicillata ogilbyi</i>	Woylie	The Woylie habitat types ranged from forest to grassland, coastal and inland. During the day the Woylie shelters under patches of dense undergrowth, logs and rock-cavities and occasionally in burrows.	May be in wooded areas
<i>Calidris ferruginea</i>	Curlew Sandpiper	Curlew Sandpipers mainly occur on intertidal mudflats in sheltered coastal areas, such as estuaries, bays, inlets and lagoons, and also around non-tidal swamps, lakes and lagoons near the coast, and ponds in saltworks and sewage farms.	No – not coastal habitat
<i>Limosa lapponica menzbieri</i>	Bar-tailed Godwit (northern Siberian)	The Bar-tailed Godwit is found mainly in coastal habitats such as large intertidal sandflats, banks, mudflats, estuaries, inlets, harbours, coastal lagoons and bays. It is found often around beds of seagrass and, sometimes, in nearby saltmarsh.	No – not coastal habitat

Scientific Name	Common Name	Habitat*	Likelihood of occurring on the site
<i>Numenius madagascariensis</i>	Eastern Curlew	The Eastern Curlew is most commonly associated with sheltered coasts, especially estuaries, bays, harbours, inlets and coastal lagoons, with large intertidal mudflats or sandflats, often with beds of seagrass. Occasionally, the species occurs on ocean beaches (often near estuaries), and coral reefs, rock platforms, or rocky islets.	No – not coastal habitat
<i>Pseudocheirus occidentalis</i>	Western Ringtail Possum, Ngwayir	The Western Ringtail Possum is a medium sized nocturnal marsupial. This species occurs in and near coastal Peppermint Tree (<i>Agonis flexuosa</i>) forest and Tuart (<i>Eucalyptus gomphocephala</i>) dominated forest with a Peppermint Tree understorey.	No – no suitable habitat on the site
Schedule 2 - EN			
<i>Botaurus poiciloptilus</i>	Australasian bittern	The Australasian Bittern occurs mainly in densely vegetated freshwater wetlands and, rarely, in estuaries or tidal wetlands.	Potentially occurs intermittently on the site
<i>Calidris canutus</i>	Red Knot	In Australasia the Red Knot mainly inhabit intertidal mudflats, sandflats and sandy beaches of sheltered coasts, in estuaries, bays, inlets, lagoons and harbours; sometimes on sandy ocean beaches or shallow pools on exposed wave-cut rock platforms or coral reefs.	No – not coastal habitat
<i>Calyptorhynchus baudinii</i>	Baudin's Black Cockatoo	Baudin's Black-Cockatoo mainly occurs in eucalypt forests, especially Jarrah (<i>Eucalyptus marginata</i>), Marri (<i>Corymbia calophylla</i>), also Karri (<i>E. diversicolor</i>) forest, often feeding in the understorey on proteaceous trees and shrubs, especially banksias (SEWPaC, 2012).	Potentially occurs intermittently on the site
<i>Calyptorhynchus latirostris</i>	Carnaby's Black Cockatoo	Carnaby's Cockatoo is found in the south-west of Australia from Kalbarri through to Ravensthorpe. It has a preference for feeding on the seeds of Banksia, Hakea, Eucalyptus, Grevillea, Pinus and Allocasuarina spp. It is nomadic often moving toward the coast after breeding. It breeds in tree hollows that are 2.5 - 12m above the ground and have an entrance 23-30cm with a depth of 1-2.5m. Nesting mostly occurs in smooth-barked trees (e.g. Salmon Gum, Wandoo, Red Morrell) (SEWPaC, 2012)	Potentially occurs intermittently on the site

Scientific Name	Common Name	Habitat*	Likelihood of occurring on the site
<i>Myrmecobius fasciatus</i>	Numbat, Walpurti	Numbats occur in eucalypt forests and woodlands dominated by Eucalyptus marginata, Corymbia calophylla and Eucalyptus wandoo.	Highly Unlikely – the site doesn't contain the preferred habitat and the species hasn't been recorded since 1974
<i>Rostratula australis</i> (<i>Rostratula benghalensis australis</i>)	Australian Painted Snipe	The Australian Painted Snipe has been recorded at wetlands in all states of Australia but is most common in eastern Australia. It generally inhabits shallow terrestrial freshwater (occasionally brackish) wetlands, including temporary and permanent lakes, swamps and claypans. It also uses inundated or waterlogged grassland or saltmarsh, dams, rice crops, sewage farms and bore drains. Typical sites include a cover of vegetation, including grasses.	Potentially occurs intermittently on the site
Schedule 3 - VU			
<i>Calyptorhynchus banksii naso</i>	Forest Red-tailed Black-Cockatoo	Forest Red-tailed Black Cockatoos frequent the humid to sub-humid south-west of Western Australia from Gingin in the north, to Albany in the south and west to Cape Leeuwin and Bunbury (SEWPaC, 2012). It nests in tree hollows with a depth of 1-5m, that are predominately Marri (<i>Corymbia calophylla</i>), Jarrah (<i>Eucalyptus marginata</i>) and Karri (<i>E. diversicolor</i>) and it feeds primarily on the seeds of Marri.	Possible intermittent visitor to the site
<i>Dasyurus geoffroii</i>	Chuditch, Western Quoll	The Chuditch have been known to occupy a wide range of habitats including woodlands, dry sclerophyll forests, riparian vegetation, beaches and deserts. They are opportunistic feeders, and forage on the ground at night, feeding on invertebrates, small mammals, birds and reptiles.	Possible but hasn't been trapped on the site historically.
<i>Falco hypoleucos</i>	Grey Falcon	The Grey Falcon favours timbered lowland plains, particularly acacia shrublands that are crossed by tree-lined watercourses, but frequents other grassland and woodland habitats (Birdlife International, 2014).	Possibly intermittently present on the site

Scientific Name	Common Name	Habitat*	Likelihood of occurring on the site
<i>Leipoa ocellata</i>	Mallee Fowl	Mallee fowl have been found in mallee regions of southern Australia from approximately the 26th parallel of latitude southwards in mallee bushland.	No – no mallee habitat
<i>Limosa lapponica baueri</i>	Bar-tailed Godwit (western Alaskan)	The Bar-tailed Godwit is found mainly in coastal habitats such as large intertidal sandflats, banks, mudflats, estuaries, inlets, harbours, coastal lagoons and bays. It is found often around beds of seagrass and, sometimes, in nearby saltmarsh.	No – not coastal habitat
<i>Setonix brachyurus</i>	Quokka	Quokkas were originally very common on the Swan Coastal Plain, however, their distribution is now limited to Rottnest Island and a few isolated areas in the south-west of WA. On the mainland, they prefer densely vegetated areas around wetlands and streams, whereas on Rottnest Island they inhabit low scrubby coastal vegetation where water is not readily available year-round.	Highly Unlikely – thought to be locally extinct
<i>Westralunio carteri</i>	Carter's Freshwater Mussel	Carter's Freshwater Mussel is South-West Western Australia's only freshwater mussel (Murdoch University & SERCUL, 2012). Carter's Freshwater Mussel occurs in freshwater streams, rivers, reservoirs and lakes (ICUN, 2015b) and is intolerant to dehydration for more than three days and salinity (Murdoch University & SERCUL, 2012).	No – no permanent water on the site
Schedule 3 – VU and Schedule 5 - AI			
<i>Charadrius leschenaultii</i>	Greater Sand Plover	In Australasia, the Greater Sand Plover is almost entirely coastal, inhabiting littoral and estuarine habitats. They mainly occur on sheltered sandy, shelly or muddy beaches with large intertidal mudflats or sandbanks, as well as sandy estuarine lagoons.	Highly Unlikely-not suitable habitat
Schedule 5 - AI			
<i>Actitis hypoleucos (Tringa hypoleucos)</i>	Common Sandpiper	The Common Sandpiper is mostly found around muddy margins or rocky shores. Generally the species forages in shallow water and on bare soft mud at the edges of wetlands.	Possible intermittent visitor to the site

Scientific Name	Common Name	Habitat*	Likelihood of occurring on the site
<i>Anous stolidus</i>	Common Noddy	The Common Noddy feeds on small fish, squid, pelagic molluscs, insects and even Pandanus fruit. Most items are skimmed from the surface of the ocean by dipping and breeds on islands (Birdlife Australia, 2014).	No – not coastal habitat
<i>Apus pacificus</i>	Fork-tailed Swift	The Fork-tailed Swift is almost exclusively aerial and is not known to breed in Australia. They are seen in inland plains but sometimes above foothills or in coastal areas. They often occur over cliffs and beaches and also over islands and sometimes well out to sea. They also occur over settled areas, including towns, urban areas and cities. <i>Apus pacificus</i> subsp. <i>pacificus</i> is the only subspecies to migrate to Australia.	No – not coastal habitat – possibly could fly over the site but unlikely to land
<i>Calidris acuminata</i>	Sharp-tailed Sandpiper	The Sharp-tailed Sandpiper prefers muddy edges of shallow fresh or brackish wetlands, with inundated or emergent sedges, grass, saltmarsh or other low vegetation.	Possible intermittent visitor to the site
<i>Calidris melanotos</i>	Pectoral Sandpiper	The Pectoral Sandpiper prefers shallow fresh to saline wetlands and is found at coastal lagoons, estuaries, bays, swamps, lakes, inundated grasslands, saltmarshes, river pools, creeks, floodplains and artificial wetlands.	Possible intermittent visitor to the site
<i>Calidris ruficollis</i>	Red-necked Stint	The Red-necked Stint is mostly found in coastal areas, including in sheltered inlets, bays, lagoons and estuaries with intertidal mudflats, often near spits, islets and banks and, sometimes, on protected sandy or coralline shores.	No – not coastal habitat
<i>Calidris subminuta</i>	Long-toed Stint	The Long-toed Stint prefers shallow freshwater or brackish wetlands including lakes, swamps, river floodplains, streams, lagoons and sewage ponds. The species is also fond of areas of muddy shoreline, growths of short grass, weeds, sedges, low or floating aquatic vegetation, reeds, rushes and occasionally stunted samphire.	Possible intermittent visitor to the site
<i>Limosa lapponica</i>	Bar-tailed Godwit	The Bar-tailed Godwit is found mainly in coastal habitats such as large intertidal sandflats, banks, mudflats, estuaries, inlets, harbours, coastal lagoons and bays.	No – not coastal habitat

Scientific Name	Common Name	Habitat*	Likelihood of occurring on the site
<i>Limosa limosa</i>	Black-tailed Godwit	The Black-tailed Godwit is found mainly in coastal habitats such as large intertidal sandflats, banks, mudflats, estuaries, inlets, harbours, coastal lagoons and bays. It is found often around beds of seagrass and, sometimes, in nearby saltmarsh.	No – not coastal habitat
<i>Motacilla cinerea</i>	Grey Wagtail	The Grey Wagtail is mostly recorded in coastal areas in Western Australia (ALA, 2015) however is widespread. There is non-breeding habitat only in Australia and the species has a strong association with water, particularly rocky substrates along water courses but also lakes and marshes.	Possible intermittent visitor to the site
<i>Pandion cristatus (Pandion haliaetus)</i>	Osprey	Ospreys occur in littoral and coastal habitats and terrestrial wetlands of tropical and temperate Australia and offshore islands. They feed on fish, especially mullet where available, and rarely take molluscs, crustaceans, insects, reptiles, birds and mammals.	No – not coastal
<i>Philomachus pugnax</i>	Ruff	The Ruff is found on generally fresh, brackish or saline wetlands with exposed mudflats at the edges and is found in terrestrial wetlands including lakes, swamps, pools, lagoons, tidal rivers, swampy fields and floodlands.	Possible intermittent visitor to the site
<i>Plegadis falcinellus</i>	Glossy Ibis	The Glossy Ibis is the smallest ibis known in Australia. This species preferred habitat for foraging and breeding are fresh water marshes at the edges of lakes and rivers, lagoons, flood-plains, wet meadows, swamps, reservoirs, sewage ponds, rice-fields and cultivated areas under irrigation but do not breed in South-west Western Australia..	Possible intermittent visitor to the site
<i>Thalasseus bergii (Sterna bergii)</i>	Crested Tern	The Crested Tern occurs in coastal areas (Birdlife Australia, 2018).	No – not coastal
<i>Tringa brevipes</i>	Grey Tailed Tattler	The Grey-tailed Tattler is often found on sheltered coasts with reefs and rock platforms or with intertidal mudflats. It can also be found at intertidal rocky, coral or stony reefs as well as platforms and islets that are exposed at low tide.	No – not coastal habitat

Scientific Name	Common Name	Habitat*	Likelihood of occurring on the site
<i>Tringa glareola</i>	Wood Sandpiper	The Wood Sandpiper uses well-vegetated, shallow, freshwater wetlands, such as swamps, billabongs, lakes, pools and waterholes. They are typically associated with emergent, aquatic plants or grass, and dominated by taller fringing vegetation, such as dense stands of rushes or reeds, shrubs, or dead or live trees, especially Melaleuca and River Red Gums <i>Eucalyptus camaldulensis</i> and often with fallen timber.	Possible intermittent visitor to the site
<i>Tringa nebularia</i>	Common Greenshank	The Common Greenshank is a wader and does not breed in Australia. This species can be found in many types of wetlands and has the widest distribution of any shorebird in Australia. This species typically feeds on molluscs, crustaceans, insects, and occasionally fish and frogs.	Possible intermittent visitor to the site
<i>Tringa stagnatilis</i>	Marsh Sandpiper, Little Greenshank	The Marsh Sandpiper lives in permanent or ephemeral wetlands of varying salinity, including swamps, lagoons, billabongs, salt pans, saltmarshes, estuaries, pools on inundated floodplains, and intertidal mudflats and also regularly at sewage farms and saltworks.	Possible intermittent visitor to the site
Schedule 7 - CD			
<i>Phascogale tapoatafa wambenger</i>	South-western brush-tailed phascogale, wambenger	Southern Brush-tailed Phascogales are arboreal marsupials which require tree hollows in suitable woodland or forest and rely on abundant invertebrate prey to sustain populations (Pescott, 2012).	May be in wooded areas
Marine			
<i>Ardea alba (Ardea modesta)</i>	Great Egret, White Egret	The Eastern Great Egret has been reported in a wide range of wetland habitats and usually frequents shallow waters. This species feeds on fish, insects, crustaceans, molluscs, frogs, lizards, snakes and small birds and mammals.	Possible intermittent visitor to the site

Scientific Name	Common Name	Habitat*	Likelihood of occurring on the site
<i>Ardea ibis</i>	Cattle Egret	The Cattle Egret occurs in tropical and temperate grasslands, wooded lands and terrestrial wetlands with breeding in Western Australia recorded in the far north in Wyndham in colonies in wooded swamps such as mangrove forest. This species forages away from water on low lying grasslands, improved pastures and croplands generally in areas that have livestock eating insects, frog, lizards and small mammals.	Possible intermittent visitor to the site
<i>Haliaeetus leucogaster</i>	White-bellied Sea-eagle	The White-bellied Sea-Eagle is found in coastal habitats with large areas of open water, especially those close to the sea-shore. This species feeds opportunistically on a variety of fish, birds, reptiles, mammals and crustaceans, and on carrion and offal.	No – not coastal habitat
<i>Merops ornatus</i>	Rainbow Bee-eater	Populations of the Rainbow Bee-eater that breed in northern Australia are considered to be resident, and in many northern localities the Rainbow Bee-eater is present throughout the year. The Rainbow Bee-eater nests in a burrow dug in the ground. It is found across the better-watered parts of WA including islands preferring lightly wooded, sandy country near water.	Known as an intermittent visitor to the site
Priority 3			
<i>Idiosoma sigillatum</i>	Swan Coastal Plain shield-backed trapdoor spider	The Swan Coastal Plain Shield-backed Trapdoor Spider arranges fallen twigs from the sheoak tree around the rim of its burrow entrance, enabling it to feel the vibrations of unsuspecting prey that wander by (Curtin, 2018).	Unlikely to occur as the habitat is not suitable
<i>Lerista lineata</i>	Perth Slider, Lined Skink	The Lined Skink is a burrowing species that occurs in pale sandy soils with coastal heath and shrubland areas in isolated populations in the south-west and mid-west coast of Western Australia. It feeds on termites and other small insects (AROD, 2014).	No- not coastal heath or shrubland habitat

Scientific Name	Common Name	Habitat*	Likelihood of occurring on the site
<i>Neelaps calonotos</i>	Black Striped Snake	The Black-striped snake has a limited distribution, inhabiting areas with sandy soils that support heathlands and Banksia/Eucalypt Woodlands (Nevill, 2005) on the Swan Coastal Plain generally in the lower west coast from Lancelin to Mandurah (Storr <i>et al</i> , 1999).	No – habitat not suitable
Priority 4			
<i>Hydromys chrysogaster</i>	Water Rat, Rakali	This species is found in coastal heaths and shrublands on the lower west coast between Perth and Mandurah, including Rottnest Island, with isolated populations on the mid-west coast and Busselton.	No – not coastal environment
<i>Isoodon fusciventer</i>	Southern Brown Bandicoot, Quenda	Southern Brown Bandicoots are small grey marsupials that prefer dense scrub (up to one metre high). Their diet includes invertebrates (including earthworms, adult beetles and their larvae), underground fungi, subterranean plant material, and very occasionally, small vertebrates (DEC, 2012).	Known to occur on the site
<i>Oxyura australis</i>	Blue-billed Duck	The Blue-billed Duck is found on terrestrial wetlands in temperate regions, that are freshwater to saline, and may be natural or artificial. It nests in rushes, sedges, Lignum Muehlenbeckia cunninghamii and paperbark Melaleuca (Birdlife International, 2015). The species is almost completely aquatic, and is seldom seen on land. Non-breeding flocks, often with several hundred individuals, congregate on large, deep open freshwater dams and lakes in autumn. The daylight hours are spent alone in small concealed bays within vegetation or communally in large exposed rafts far from the shore (Birds in Backyards, 2015).	No – open water habitat is limited
<i>Thinornis rubricollis</i> (<i>Charadrius rubricollis</i>)	Hooded Plover	The Hooded Plover primarily inhabits sandy, ocean beaches, with the highest densities on beaches with large amounts of beach-washed seaweed that are backed by extensive open dunes. In Western Australia the species also inhabits inland and coastal salt lakes (Birdlife International 2014)	No – not coastal or coastal salt lakes

* Habitat descriptions from DoEE (2016) SPRAT Database unless otherwise denoted

4.4.2 Conservation Significant Fauna

Coffey Environments (2008) conducted a comprehensive survey across the wider Keralup landholding.

Baudin's Black Cockatoos, Carnaby's Black Cockatoos and Forest Red-tailed Black-Cockatoo are known to frequent the area. Foraging habitat on the site is limited to those areas that have Jarrah and Marri trees. The site contains a large number (100-200) of potentially suitable breeding habitat trees (mostly Marri) that are over 50cm DBH.

Coffey Environments (2008) did not trap or observe (spot light survey) any EPBC conservation significant mammal species during the fauna survey. The Cattle Egret (*Ardea ibis*) and Rainbow Bee-eater (*Merops ornatus*), listed Marine under the EPBC Act, are known to utilise some sections of the site as part of a much larger home range.

The Priority 4 species Quenda was trapped in a number of locations across the wider Keralup landholding. PGV Environmental's opinion is that Quenda would be distributed across Lot 9500.

4.5 Pest Fauna

The site shows signs of use by rabbits. Feral cats, foxes, rats and mice are also likely to be present.

4.6 Biodiversity Value

The EPA's (2002) *Terrestrial Biological Surveys as an Element of Biodiversity Protection Position Statement No. 3* indicated an ecological assessment of a site must consider its biodiversity value at the genetic, species and ecosystem levels; and its ecological functional value at the ecosystem level.

The project area itself is highly disturbed and a large proportion of habitat is in a degraded condition. Most of the land has been cleared for grazing. The areas of remnant vegetation remaining include the remnant woodland areas surrounding the Amarillo Wetland Complex, isolated wetland areas throughout the project area and linear strips of remnant woodland on the eastern side of the study site. These fragmented habitat areas are generally in a very good to excellent condition. Horses, cattle, goats and deer have had access to most of the areas within the site and the understorey has been disturbed. In some areas this has also led to the spread of weeds. The increased amounts of grass and weed species may have resulted in a high abundance of introduced fauna species such as House Mice and Black Rats and fauna assemblages typical of many isolated urban bushland remnants (Coffey Environments, 2009).

The site is disturbed and fragmented and with the exception of the wetlands the ecosystems have been appreciably altered and degraded over a long period. On this basis, the ecosystems within the site are considered to have a low ecological functional value. However, given the level of clearing and development within the Swan Coastal Plain, the clearing and fragmentation of good-quality fauna habitat remaining within this region should be minimal (Coffey Environments, 2009). On this basis, the habitat is considered to have some ecological functional value. The areas of highest ecological value include the conservation category wetlands and the remnant Eucalypt woodlands on the eastern side of the site which contain foraging habitat for black cockatoo species and should also be retained

5 SUMMARY AND CONCLUSIONS

5.1 Flora and Vegetation

The Flora and Vegetation survey found the following:

- A large proportion of the site has previously been cleared for grazing and Bluegum plantation. Remnant native vegetation occurs throughout the site as well as areas regenerating in the now cleared Bluegum plantation and areas no longer grazed;
- Most of the site is mapped as wetland with 13 separate wetlands mapped on the site including 2 Multiple Use, 5 Resource Enhancement and 6 Conservation Category Wetlands;
- A total of 127 plant species were recorded on the site, including 86 native and 41 introduced species (32.3%). The high percentage of introduced species reflects the previously cleared condition of much of the site;
- No Threatened or Priority flora species were recorded on the site. This is consistent with the previous survey in 2009 undertaken by Coffey Environments;
- The condition of the vegetation ranged from large areas of Degraded and Completely Degraded vegetation to some areas in Excellent condition;
- Fourteen vegetation types were described and mapped on the site. Most of the vegetation types are wetland types;
- The vegetation types were considered most likely to be representative of Floristic Community Types 11, 12 and 6. None of these FCTs is a Threatened or Priority Ecological Community;
- An assessment of the wetlands mapped on the site found the management categories to mostly be appropriate. Two RE wetlands were considered to have vegetation in Excellent condition and could be reclassified to CCW. One CCW was assessed as potentially being extended slightly and CCW was recommended for reclassifying to REW based on the condition and type of vegetation in the wetland;
- The old Bluegum plantations contain some regenerating Tasmanian Bluegums (*Eucalyptus globulus*) as well as large areas of native shrubs, mostly *Astartea affinis* and *Kunzea glabrescens*. The condition of the vegetation in the old plantations was assessed as Degraded to Good. Most of the old plantations are within Multiple Use wetlands. Development of the old plantations for horticulture or agriculture is considered appropriate. A clearing permit may be required to clear the native shrubs that have regrown in the old plantation area.

5.2 Fauna

The Basic Fauna Survey found the following:

- There are six fauna habitats on the site:
 - Open paddock with *Juncus pallidus*
 - Paddock with mixed shrubland
 - Remnant woodland on sand
 - Remnant woodland with dense wetland understorey
 - Melaleuca and remnant woodland with wetland understorey

- Open Water
- Areas of remnant vegetation with Very Good and Excellent vegetation are rated as High quality fauna habitat. Areas of remnant vegetation in Good condition are rated as Good to Very Good Fauna habitat. Completely Degraded areas are rated as Disturbed rather than Highly Degraded as these areas are linked closely to areas of remnant vegetation;
- The Jarrah and Marri trees on the site provide foraging habitat and potential breeding habitat for three species of Black Cockatoos listed species under State and Federal legislation:
- The site also contains habitat for the Southern Brown Bandicoot, Quenda (*Isoodon fusciventer*) (Priority 4);
- The Listed Marine species under the EPBC Act that may intermittently visit the site is the Cattle Egret (*Ardea ibis*) and the Rainbow Bee-eater (*Merops ornatus*); and
- Pest fauna likely to occur on the site are rabbits, feral cats, rats, mice and foxes.

5.3 Conclusion

Lot 9500 is a large site, around 1600ha, with a history of land use that has resulted in a large proportion of the site being cleared for grazing and Bluegum Plantations. Native vegetation remains in low-lying wetland areas as well as regenerating in areas no longer grazed and in the cleared Bluegum plantation.

The site does not contain any Threatened or Priority flora species or Threatened or Priority Ecological Communities. However, the site contains 11 Resource Enhancement and Conservation Category wetlands with those in the eastern half of the site more or less linked to each other. Retention of the REWs and CCWs from future development is recommended.

Development (horticulture and agriculture) of the old Bluegum plantation and areas of the site with Multiple Use wetlands is considered acceptable due to the Degraded to Completely Degraded condition of the vegetation and low value as Fauna Habitat.

6 REFERENCES

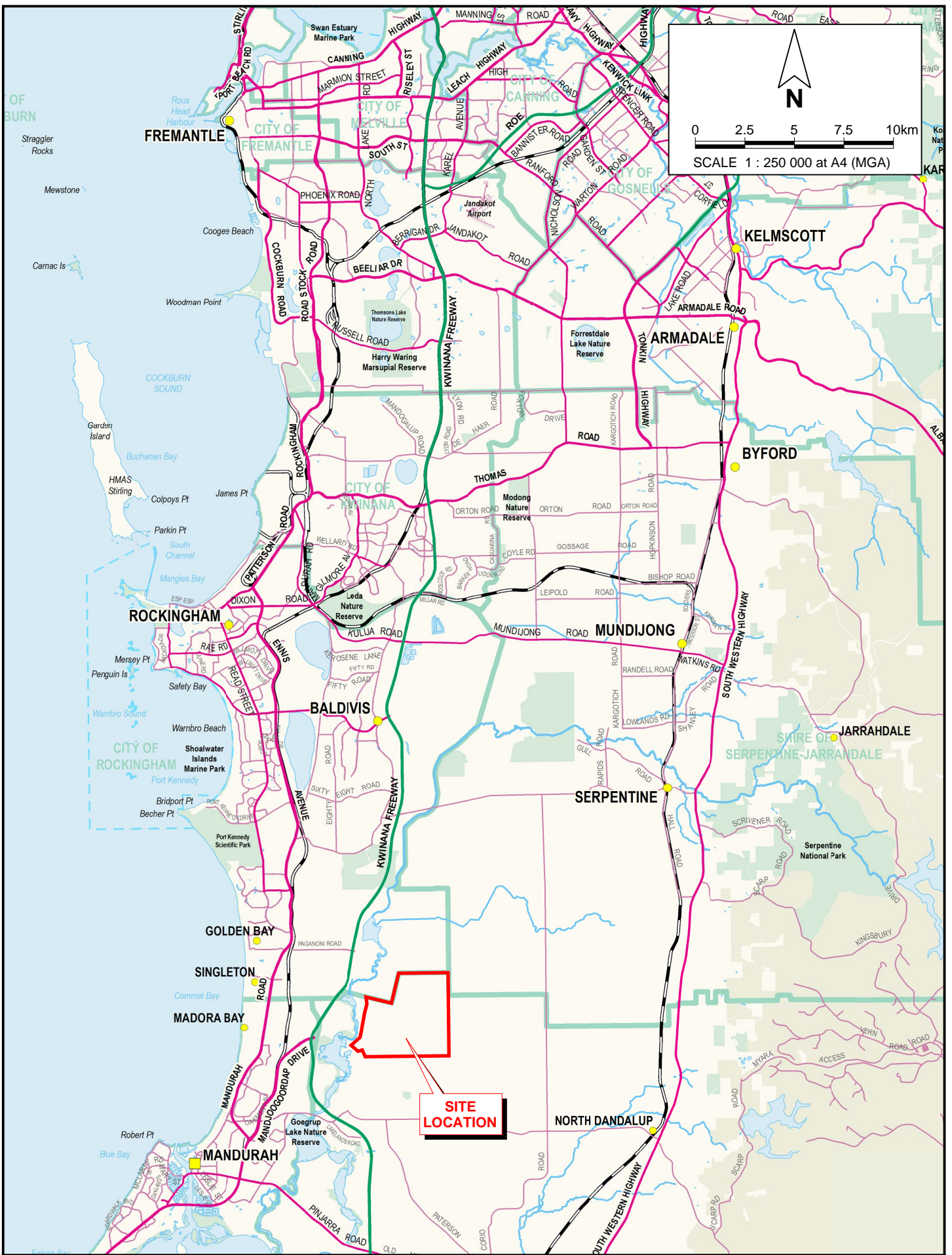
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FIGURES



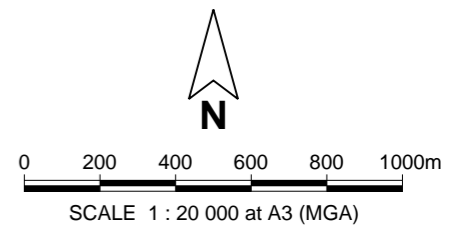
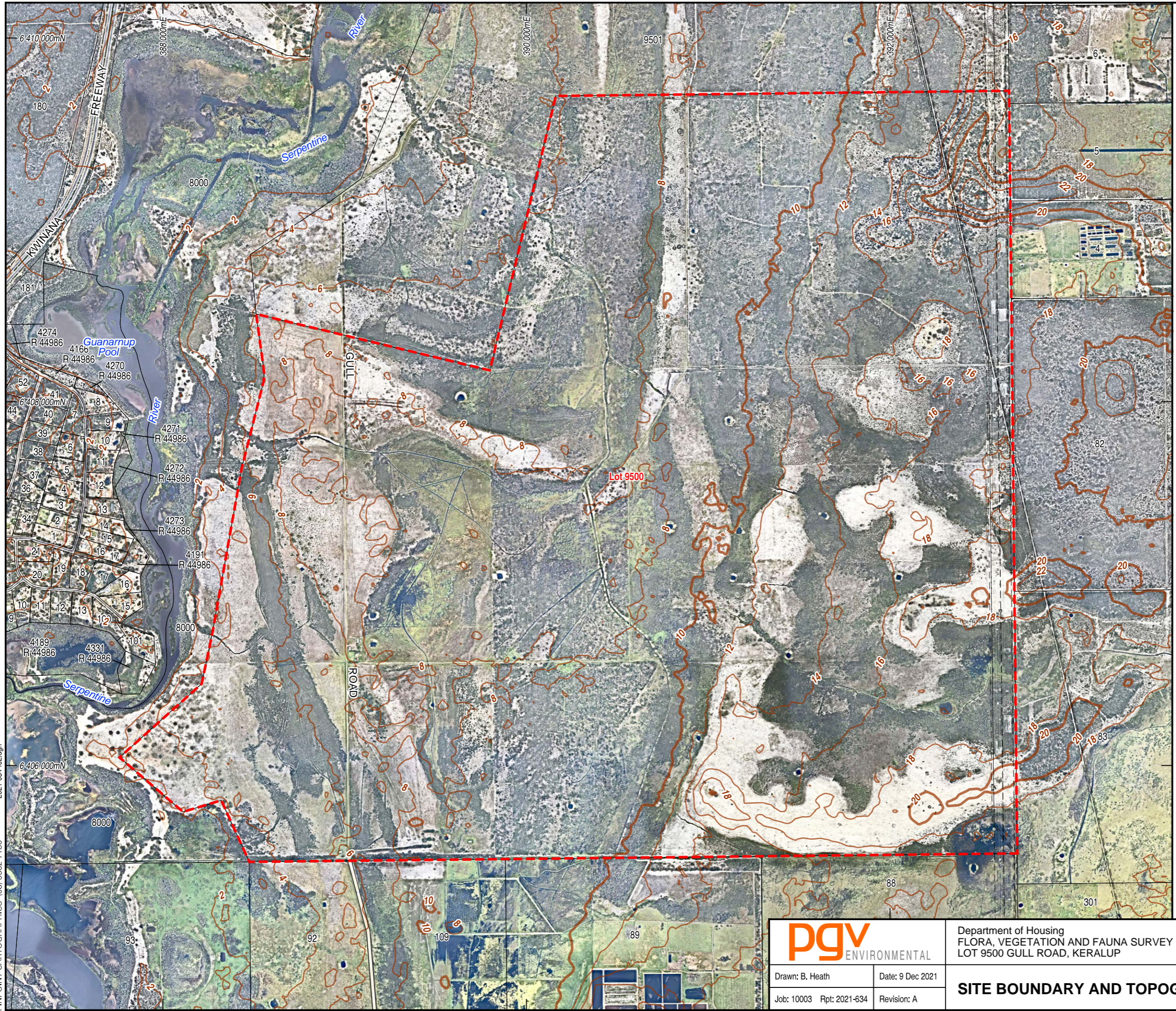
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Department of Housing
 FLORA, VEGETATION AND FAUNA SURVEY
 LOT 9500 GULL ROAD, KERALUP

SITE LOCATION

Figure 1

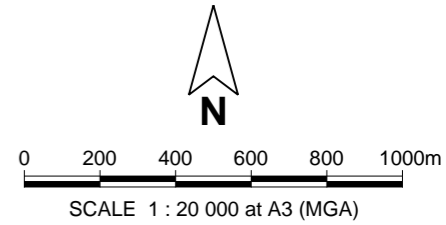
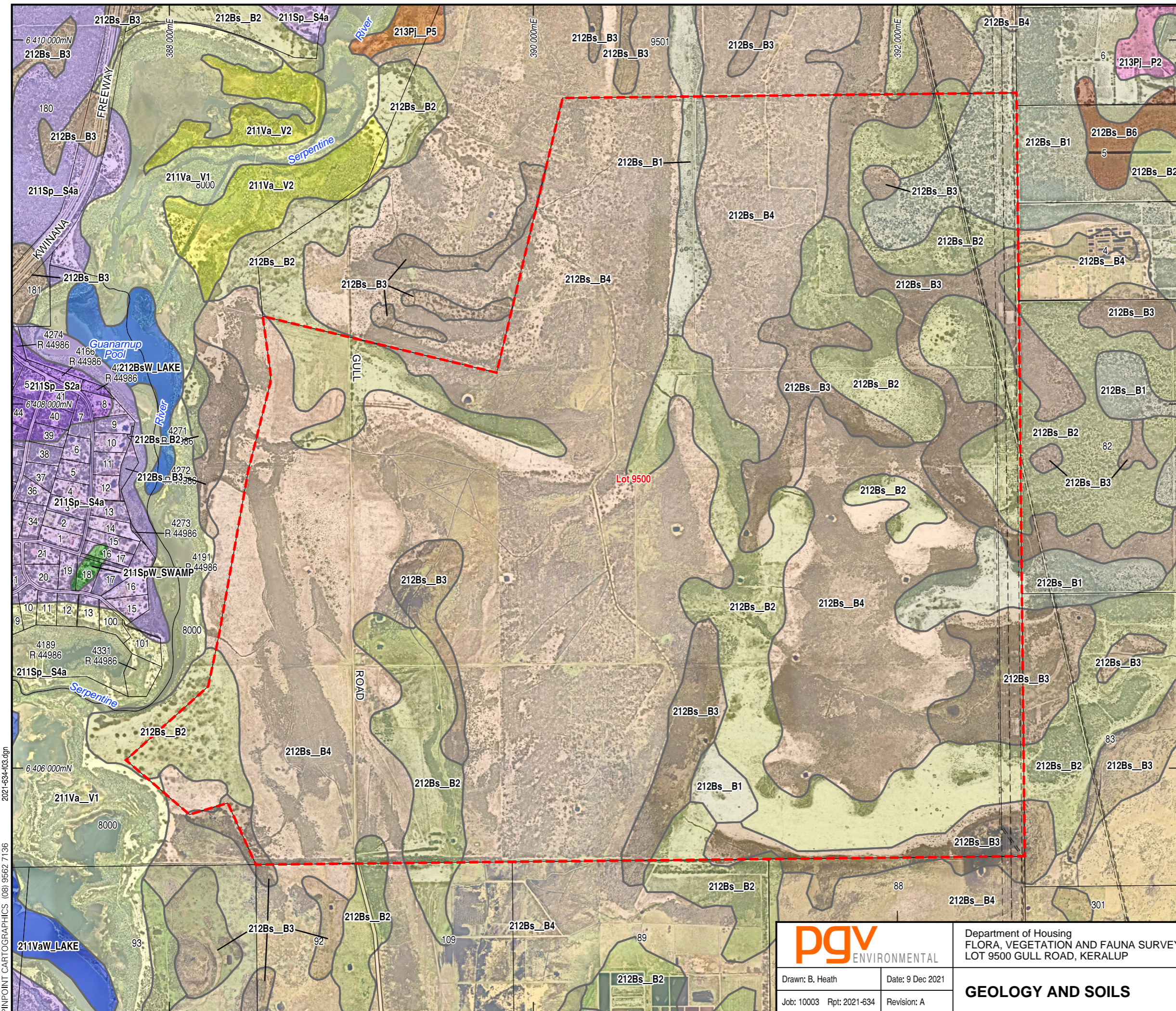


- Legend**
- - - Site Boundary
 - Cadastral Boundary
 - Easement Boundary
 - Topographic Contour

CONTOUR SOURCE: Dept. of Agriculture, 2000.
 CADASTRAL SOURCE: Landgate, December 2021.
 AERIAL PHOTOGRAPH SOURCE: NearMap, flown October 2021.

		Department of Housing FLORA, VEGETATION AND FAUNA SURVEY LOT 9500 GULL ROAD, KERALUP	Figure 2
Drawn: B. Heath	Date: 9 Dec 2021	SITE BOUNDARY AND TOPOGRAPHY	
Job: 10003 Rpt: 2021-634	Revision: A		

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- Legend**
- - - Site Boundary
 - Cadastral Boundary
 - - - Easement Boundary

- Legend**
- 211Sp_S2a - Spearwood S2a Phase
Lower slopes (1-5%) of dune ridge with moderately deep to deep siliceous yellow-brown sands or pale sands with yellow-brown subsoils and minor limestone outcrop
 - 211Sp_S4a-Spearwood S4a Phase
Flat to gently undulating sandplain with deep, pale and sometimes bleached, sands with yellow-brown subsoils
 - 211SpW_SWAMP
Spearwood wet, swamp Phase-Swamp
 - 211Va_V1-Vasse V1 Phase-Saline tidal flats composed of grey, black and brown foetid muds and humic sandy clays with locally common shell and limestone fragments
 - 211Va_V2-Vasse V2 Phase
Samphire covered sand and mud flats marginally higher than V1 and frequently inundated; with deep alkaline alluvial sands and clayey sands
 - 211VaW_LAKE-Vasse wet, lake Phase
Lake
 - 212Bs_B1-Bassendean B1 Phase
Extremely low to very low relief dunes, undulating sandplain and discrete sand rises with deep bleached grey sands sometimes with a pale yellow B horizon or a weak iron-organic hardpan at depths generally greater than 2 m; banksia dominant
 - 212Bs_B2-Bassendean B2 Phase
Flat to very gently undulating sandplain with well to moderately well drained deep bleached grey sands with a pale yellow B horizon or a weak iron-organic hardpan 1-2 m
 - 212Bs_B3-Bassendean B3 Phase
Closed depressions and poorly defined stream channels with moderately deep, poorly to very poorly drained bleached sands with an iron-organic pan, or clay subsoil. Surfaces are dark grey sand or sandy loam
 - 212Bs_B4-Bassendean B4 Phase
Broad poorly drained sandplain with deep grey siliceous sands or bleached sands, underlain at depths generally greater than 1.5 m by clay or less frequently a strong iron-organic hardpan.
 - 212Bs_B6-Bassendean B6 Phase
Sandplain and broad extremely low rises with imperfectly drained deep or very deep grey siliceous sands
 - 212BsW_LAKE-Bassendean wet, lake Phase
Lake
 - 213Pj_P2-Pinjarra P2 Phase
Flat to very gently undulating plain with deep alkaline mottled yellow duplex soils which generally consist of shallow pale sand to sandy loam over clay
 - 213Pj_P5-Pinjarra P5 Phase
Poorly drained flats, commonly with gilgai microrelief and with deep black-grey to olive-brown cracking clays with subsoils becoming alkaline

SOILS SOURCE: DPIRD, September 2021.
 CADASTRAL SOURCE: Landgate, December 2021.
 AERIAL PHOTOGRAPH SOURCE: NearMap, flown October 2021.

pgv ENVIRONMENTAL

Drawn: B. Heath Date: 9 Dec 2021

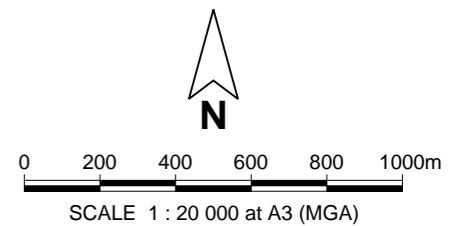
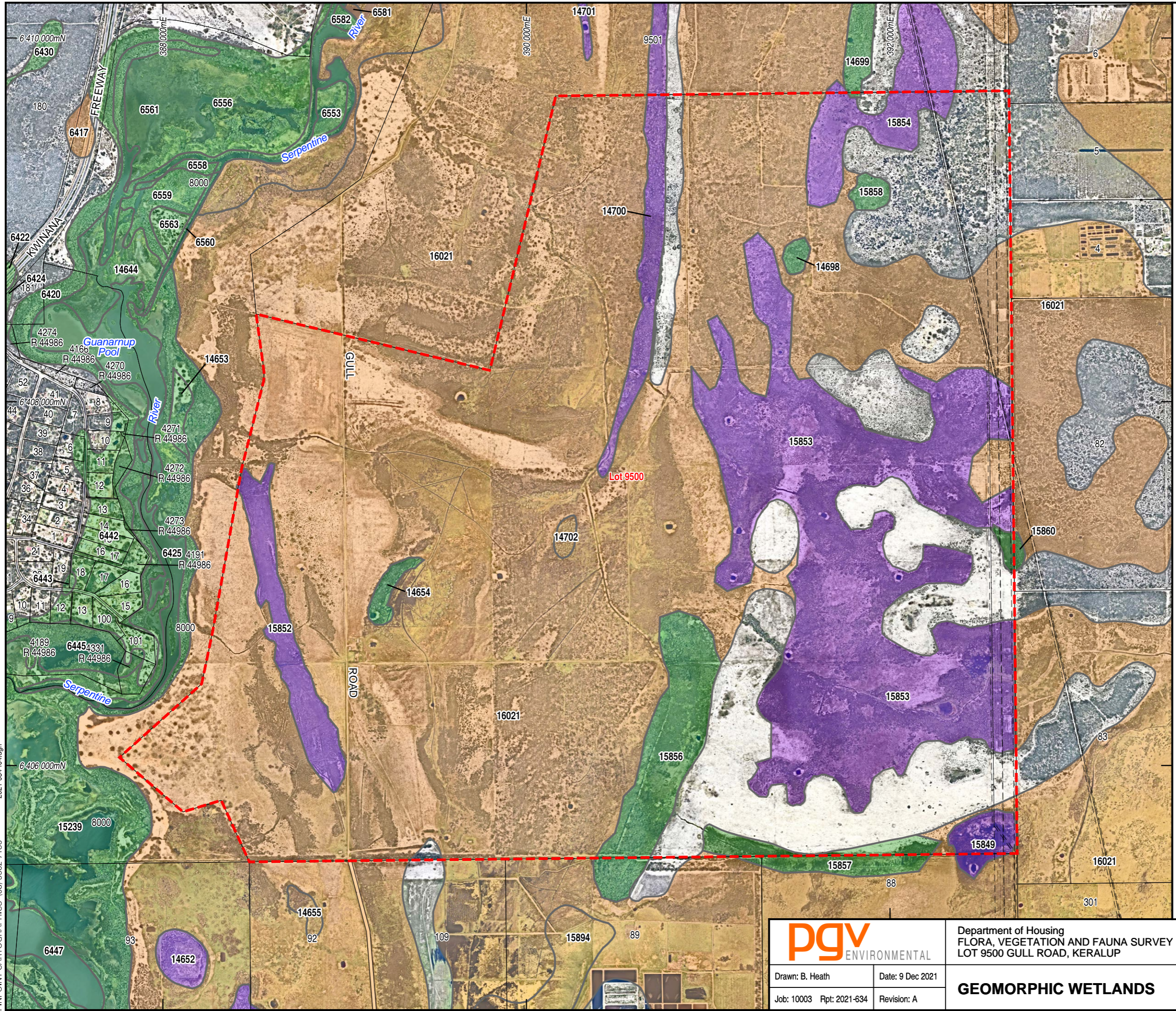
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Department of Housing
 FLORA, VEGETATION AND FAUNA SURVEY
 LOT 9500 GULL ROAD, KERALUP

GEOLOGY AND SOILS

Figure 3

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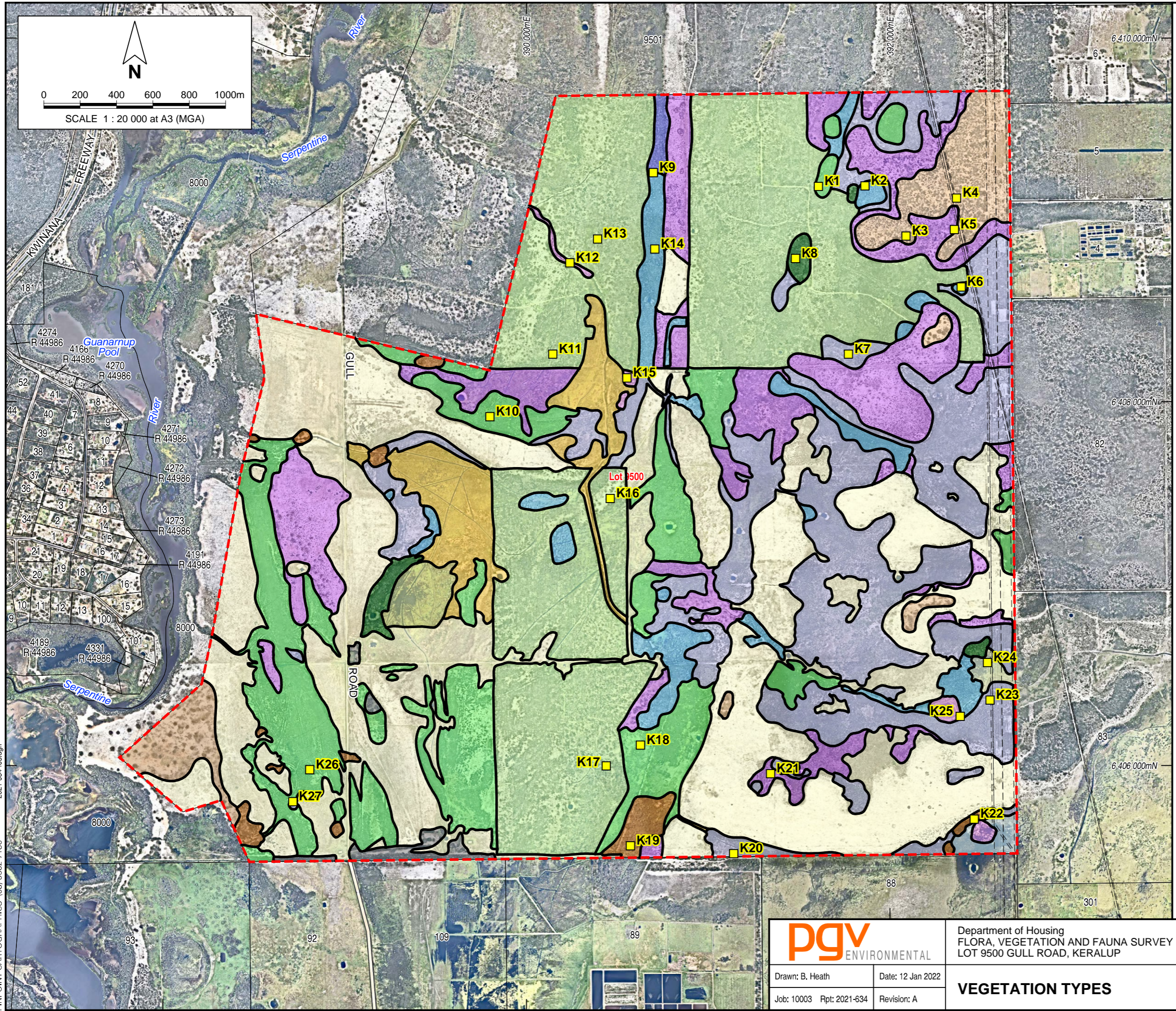
- Legend**
- - - Site Boundary
 - Cadastral Boundary
 - Easement Boundary
- Geomorphic Wetlands**
- Conservation Category
 - Resource Enhancement
 - Multiple Use
- 14702 Wetland UFI Number

WETLANDS SOURCE: DBCA, November 2021.
 CADASTRAL SOURCE: Landgate, December 2021.
 AERIAL PHOTOGRAPH SOURCE: NearMap, flown October 2021.

pgv ENVIRONMENTAL		Department of Housing FLORA, VEGETATION AND FAUNA SURVEY LOT 9500 GULL ROAD, KERALUP	
Drawn: B. Heath	Date: 9 Dec 2021	GEOMORPHIC WETLANDS	
Job: 10003 Rpt: 2021-634	Revision: A		

Figure 4

2021-634-104.dgn
PINPOINT CARTOGRAPHICS (08) 9562 7136



- Legend**
- - - Site Boundary
 - Cadastral Boundary
 - Easement Boundary
 - Quadrat Location
 - Vegetation Type Boundary

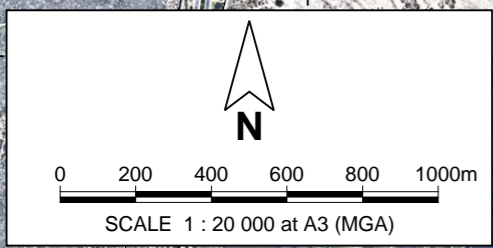
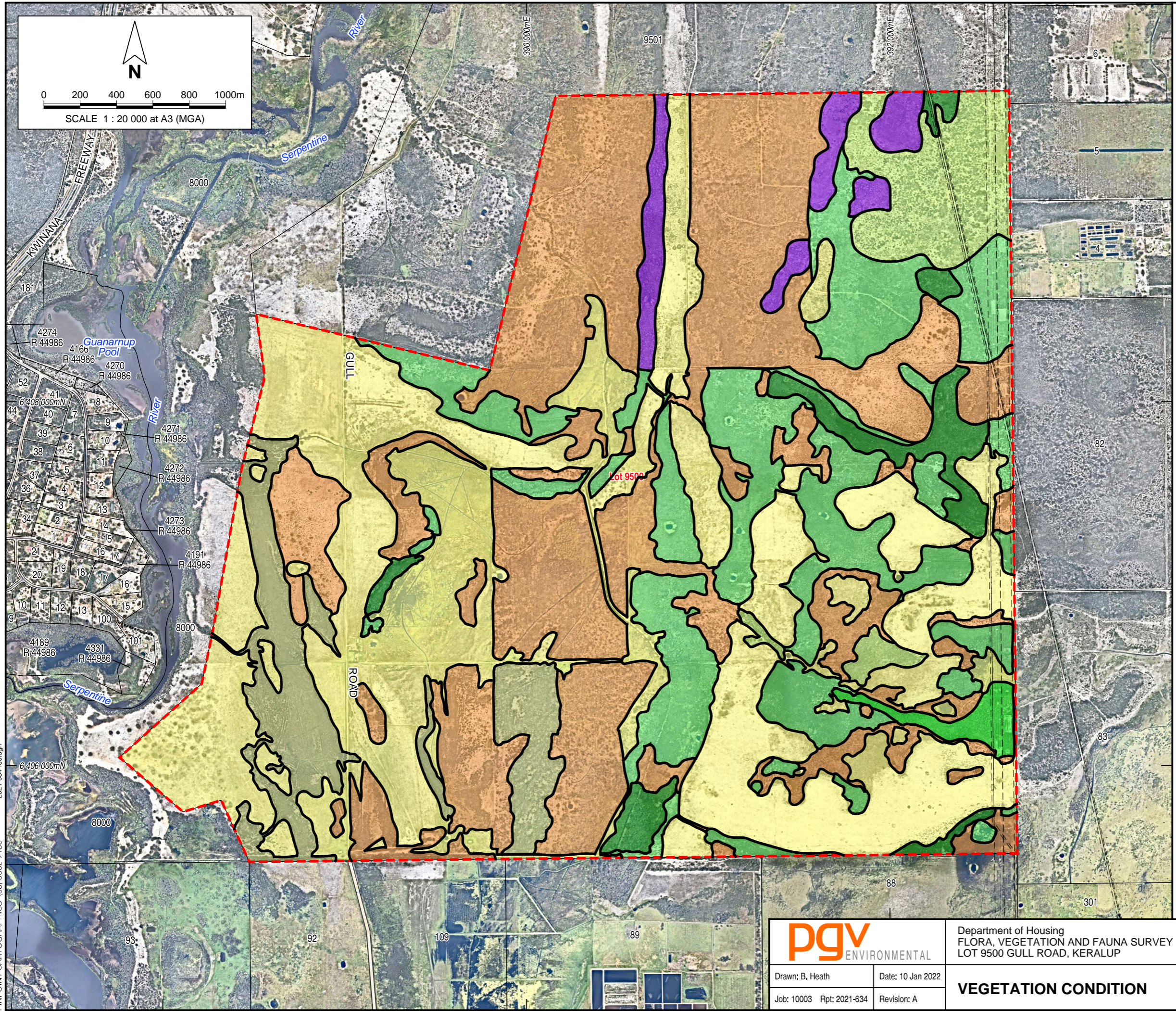
- Vegetation Types**
- EmXo**
Eucalyptus marginata Woodland over *Xylomelum occidentale* Low Open Woodland over *Hibbertia hypericoides* Low Shrubland
 - EgKg**
Eucalyptus globulus Woodland over *Kunzea glabrescens* Tall Shrubland over *Astartea affinis* Shrubland
 - Mp**
Melaleuca preissiana scattered trees
 - MpAa**
Melaleuca preissiana Low Open Woodland over *Astartea affinis* Open Heath
 - MpKg**
Melaleuca preissiana Open to Low Open Forest over *Kunzea glabrescens* Tall Open Shrubland over *Astartea affinis/Regelia ciliata* Open Heath over *Lepidosperma longitudinale* Sedgeland
 - KgAa**
Kunzea glabrescens Tall Open Scrub over *Astartea affinis* Open Heath
 - Kg**
Kunzea glabrescens Scattered Shrubs
 - Mr**
Melaleuca raphiophylla Low Open Forest over *Melaleuca teretifolia/Kunzea glabrescens* Tall Shrubland over *Juncus pallidus* Open Sedgeland
 - Aa**
Astartea affinis Closed Heath
 - ErKg**
Eucalyptus rudis Open Forest over *Kunzea glabrescens* Tall Shrubland over *Astartea affinis* Open Shrubland over *Lepidosperma longitudinale* Very Open Sedgeland
 - ErCcMp**
Eucalyptus rudis/Corymbia calophylla Open Forest over *Melaleuca preissiana* Low Open Woodland over *Astartea affinis* Shrubland over *Lepidosperma longitudinale*
 - Er**
Eucalyptus rudis Scattered Trees
 - Jp**
Juncus pallidus sedgeland
 - Exotic Trees**
 - Bare**
 - Water**

CADASTRAL SOURCE: Landgate, December 2021.
 AERIAL PHOTOGRAPH SOURCE: NearMap, flown October 2021.

PINPOINT CARTOGRAPHICS (08) 9562 7136 2021-634-105.dgn

pgv ENVIRONMENTAL		Department of Housing FLORA, VEGETATION AND FAUNA SURVEY LOT 9500 GULL ROAD, KERALUP	
Drawn: B. Heath	Date: 12 Jan 2022	VEGETATION TYPES	
Job: 10003 Rpt: 2021-634	Revision: A		

Figure 5



- Legend**
- - - Site Boundary
 - Cadastral Boundary
 - - - Easement Boundary
- Vegetation Condition**
- Completely Degraded
 - Degraded
 - Degraded-Good
 - Good to Degraded
 - Good
 - Good to Very Good
 - Very Good
 - Excellent

Vegetation Condition Descriptions
(SOURCE: Bush Forever, Govt. of W.A., 2000)

- P - Pristine**
Pristine or nearly so, no obvious signs of disturbance.
- Ex - Excellent**
Vegetation structure intact, disturbance affecting individual species and weeds are non aggressive species.
- VG - Very Good**
Vegetation structure altered, obvious signs of disturbance. For example, disturbance to vegetation structure caused by repeated fires, the presence of some more aggressive weeds, dieback, logging and grazing.
- G - Good**
Vegetation structure significantly altered by very obvious signs of multiple disturbance. Retains basic vegetation structure or ability to regenerate it. For example, disturbance to vegetation structure caused by very frequent fires, the presence of some very aggressive weeds at high density, partial clearing, dieback and grazing.
- D - Degraded**
Basic vegetation structure severely impacted by disturbance. Scope for regeneration but not to a state approaching good condition without intensive management. For example, disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds, partial clearing, dieback and grazing.
- CD - Completely Degraded**
The structure of the vegetation is no longer intact and the areas is completely or almost completely without native species. These areas are often described as 'parkland cleared' with the flora composing weed or crop species with isolated native trees or shrubs.
- CI - Cleared**
No native vegetation remaining.

CADASTRAL SOURCE: Landgate, December 2021.
AERIAL PHOTOGRAPH SOURCE: NearMap, flown October 2021.

PINPOINT CARTOGRAPHICS (08) 9562 7136 2021-634-106.dgn

		Department of Housing FLORA, VEGETATION AND FAUNA SURVEY LOT 9500 GULL ROAD, KERALUP	
Drawn: B. Heath	Date: 10 Jan 2022	<h2 style="margin: 0;">VEGETATION CONDITION</h2>	
Job: 10003 Rpt: 2021-634	Revision: A		

Figure 6

APPENDIX 1

DBCA Flora Database Search

FID	Sheet	NameID	Taxon	Cons_Cod e	Plant_Desc	Site	Vegetation	Frequency	Notes	Geo_Met hod	Precision	Date
728	5206820	3237	Acacia benthamii	2	Erect, compact shrub 1.5 cm high x 1.2 cm wide. Flowers yellow.	Plain. Brown loam.			Abundance: occasional . 80% of population flowering.	GPS	1	29/09/1998
734	7508492	3237	Acacia benthamii	2					Opportunistic collection.	GPS	1	2/10/2004
738	8008388	3237	Acacia benthamii	2	Shrub to 1.5 m.	Flat. Brown some gravel.	Corymbia calophylla, weeds, Xanthorrhoea preissii.			GPS	1	7/01/2009
741	5809150	3237	Acacia benthamii	2	Slender erect shrub 2 m high, 1 m wide.	Grey calcareous sand.	Eucalyptus gomphocephala tall woodland.	uncommon.		MAN	0	22/09/2000
745	6960103	3237	Acacia benthamii	2		Low plain. Grey sand.	Open Jarrah & Tuart woodland. Allocasuarina fraseriana, Banksia attenuata, Kunzea glabrescens, Hibbertia hypericoides.	ca 20 plants.		GPS	1	31/03/2005
2717	4080696	14932	Acacia lasiocarpa var. bracteolata long peduncle variant (G.J. Keighery 5026)	1	Erect slender shrub to 1.5 m. Flowers yellow, in full flower.	Grey sand over clay.	Eucalyptus calophylla woodland.		Abundance: scattered in area.	MAN	0	13/08/1992
2719	190713	14932	Acacia lasiocarpa var. bracteolata long peduncle variant (G.J. Keighery 5026)	1						AUTO	3	17/09/1967
3299	607681	14131	Acacia oncinophylla subsp. patulifolia	4	Shrub 1.6 - 2 m tall.					MAN	0	18/09/1975
7169	993689	141	Aponogeton hexatepalus	4	Tuberous aquatic herb, floating leaves. Inflorescence emergent, flowers white, scented.	Roadside remnant of claypan water to 20 cm. Grey-brown mud.		rare in area, one seen.		MAN	3	21/09/1983
10933	8025630	34236	Beyeria cinerea subsp. cinerea	3	Many stemmed shrub to 30 cm. Male flowers pale yellow.	In sand over limestone.	With low scrub.			TOPO	4	7/10/1967
10937	8025223	34236	Beyeria cinerea subsp. cinerea	3	Sprawling woody shrub, rootstock. 20 cm high x 40 cm wide. Flowers yellow.	Small limestone ridges. Grey sand over limestone.	Burnt low coastal heath.	scattered.		TOPO	3	18/09/1983
10943	5944783	34236	Beyeria cinerea subsp. cinerea	3			Hakea varia Dense Low Heath C over Mixed Dwarf Scrub D.			MAN	3	4/11/1998
10949	7132484	34236	Beyeria cinerea subsp. cinerea	3	Semi-erect shrub 0.2 m high x 0.2 m wide.	Limestone ridge. Brown-orange sand with outcropping limestone. Tamala limestone.	Mixed Low Heath C. Grevillea preissii, Rhagodia baccata.	uncommon.		AUTO	1	30/06/1999
10953	7508891	34236	Beyeria cinerea subsp. cinerea	3		Steeply sloping easterly facing upland site. Surface soil pale brown loamy sand with limestone exposed on <5% of surface. Subsurface limestone present. Well-drained. Litter cover - 50-70% and 5 cm depth; bare ground cover - <2%.	Melaleuca huegelii subsp. huegelii Open Scrub over Templetonia retusa and Trymalium ledifolium var. ledifolium Open Heath, over Acacia lasiocarpa var. lasiocarpa, Phyllanthus calycinus and Gompholobium tomentosum Open Low Heath, over Mixed Very Open Gras		GPS	1	16/10/2005	

FID	Sheet	NameID	Taxon	Cons_Cod e	Plant_Desc	Site	Vegetation	Frequency	Notes	Geo_Met hod	Precision	Date
10964	3322874	34236	Beyeria cinerea subsp. cinerea	3	Many stemmed shrub to 30 cm, female plant, flowers green.	In sand over limestone.	With low scrub.			AUTO	3	7/10/1967
11258	8277079	11612	Boronia capitata subsp. gracilis	3	Perennial shrub 0.6 m high x 0.6 m wide. Pink flowers. Delicate spindly weeping shrub.	Plain. Grey sand. Collection site: road verge.	Medium trees. With Eucalyptus marginata, Kunzea glabrescens, Nuytsia florabunda, Regelia ciliata, Adenanthos sygnorum, Hibbertia varginata. Characteristic species: Hypocalymma angustifolium, sedges and rushes. Other alien species: few (1-3).	7 plants.	Other alien species: few (1-3).	TOPO	3	2/09/2010
11531	950009	4444	Boronia tenuis	4	Prostrate woody herb to 10 cm.	Steep slope - granite in soil pockets. Red/brown laterite/clay over granite.	Occasional in typical granite vegetation.			MAN	3	8/01/1985
12680	870374	1596	Caladenia huegelii	T						MAN	3	16/10/1920
12880	1829963	13862	Caladenia speciosa	4	Erect tuberous herb to 60 cm high. Flowers creamy-white with pendulous segments and a small labellum for the species.	Gently undulating terrain and white sand.	Eucalyptus marginata, banksia attenuata, B. ilicifolia and Casuarina fraseriana woodland over dieback affected scrub.		Abundance: 15 plants seen.	MAN	0	25/09/1990
13026	8336296	44226	Calandrinia oraria	3		Coastal dunes (secondary).	Acacia rostellifera, Spyridium globulosum, Alyxia buxifolia shrubland over Acanthocarpus preissii, Bromus diandrus, Conostylis candicans, forbland/ grassland.			GPS	1	7/09/2011
13032	6019269	44226	Calandrinia oraria	3	Annual herb 30 cm high x 10 cm wide. Pink flowers. Reproductive method: seeds.	Beach ridge plain. Grey sand.	Open heath/grassland. Characteristic species: Melaleuca systema, Lomandra maritima.	over 50 plants in area >1 ha.	<5% weed cover. 4 or more alien species.	MAN	2	19/10/2001
13034	8765499	44226	Calandrinia oraria	3	Annual herb 10 cm, pink flowers.	Hilly, white sand, dunes.	Corymbia calophylla, Alyxia buxifolia, Conostylis candicans.			GPS	1	3/10/2012
13387	6511937	11333	Calothamnus graniticus subsp. leptophyllus	4	Lignotuberous shrub; regrowth after fire.	Dune Ridge; flat ground. Dark brown clayey sand with laterite, over laterite, well drained.	Associated species: Eucalyptus marginata.			GPS	1	1/11/1995
14166	6196268	3006	Cardamine paucijuga	2	Decumbent annual. Flowers white, inconspicuous.	Winter wet - damp flats. Calcareous clay over limestone.	Mixed Melaleuca tall shrubland. Melaleuca incana, M. teretifolia, M. viminea, M. rhapsiophylla.	common.		GPS	1	24/09/2000
14171	6330339	3006	Cardamine paucijuga	2	Annual. Flowers white, in late flower.	Swamp, winter wet. Black peaty sand over mud.	Melaleuca rhapsiophylla low forest.	scattered on roots at base of trees.		GPS	1	24/09/2000
14190	8842337	759	Carex tereticaulis	3	Sedge to 1.5 m.	Edge of Serpentine River, brown clay.	Eucalyptus rudis woodland. Lepidosperma effusum, Astartea fascicularis.	uncommon.		GPS	1	21/12/2009
15888	7832923	11657	Conostylis pauciflora subsp. pauciflora	4	Erect herb with yellow flowers.	Brown sand, disturbed soil, mining lease.			Potnetial threat from mining.	GPS	1	27/09/2007
16541	6511872	16245	Cyathochaeta teretifolia	3	Tufted perennial herb to 1.5 m.	Seasonal Wetland; flat, black sandy peat over ?sand. Poor drainage, wet during winter/spring. Soil: Grey sand. Topography/drainage: Seasonally wet flat. Geomorphology: Alluvial deposits (pinjarra plain).	Associated species: Melaleuca preissiana, Melaleuca rhapsiophylla, Eucalyptus rudis.			GPS	1	18/12/1995
18857	4494911	3863	Dillwynia dillwynioides	3	Shrub 1.5m.		Vegetation: Pericalymma floribunda, Hakea varia Dense Heath B over Schoenus rodwayanus Low Sedges.			GPS	1	2/10/1992

FID	Sheet	NameID	Taxon	Cons_Cod e	Plant_Desc	Site	Vegetation	Frequency	Notes	Geo_Met hod	Precision	Date
18860	6146813	3863	Dillwynia dillwynioides	3	Erect shrub, 2 m high. Flowers yellow and orange, crowded in a short terminal raceme.	Swamp and estuarine wetland deposits during Holocene Period. Moderate litter cover, less than 5%. Black sandy loam over aeolian and marine deposits.	Salt marsh vegetation with fringing estuarine forest. Sarcocornia quinqueflora, with Casuarina obesa, Melaleuca raphiophylla, Eucalyptus rudis.	common in the wet area.		MAN	3	/10/2001
18861	5890608	3863	Dillwynia dillwynioides	3	Erect shrub 1 m high.	Swamp and estuarine wetland deposits during Holocene period. Moderate litter cover less than 5%. Black sandy loam over aeolian and marine deposits.	Salt marsh vegetation with fringing estuarine forest. Sarcocornia quinqueflora, Casuarina obesa, Melaleuca raphiophylla, Eucalyptus rudis.	occasional.		MAN	3	/09/2001
18862	5943086	3863	Dillwynia dillwynioides	3		Seasonal dampland.	Melaleuca raphiophylla Low Forest B over M. raphiophylla Low Scrub B over Dense Low Grass and Dense Low Sedges.			MAN	2	4/11/1998
18863	5943523	3863	Dillwynia dillwynioides	3		Seasonal dampland.	Eucalyptus rudis Low Forest A over Melaleuca raphiophylla Open Low Woodland A over Kunzea ericifolia Open Scrub over Dense Low Scrub of mixed grasses, weeds and sedges.			MAN	2	4/11/1998
18866	7536062	3863	Dillwynia dillwynioides	3		Moist grey loam.	Low Woodland A of Eucalyptus rudis, Melaleuca raphiophylla, Banksia littoralis, Lepidosperma longitudinale, Hibbertia stellaris, Kunzea glabrescens, Villarsia albiflora.	>20 plants.	Condition of population: moderate.	GPS	1	15/09/2006
18872	7745508	3863	Dillwynia dillwynioides	3		Grey, inundated, saline sand. Edge of lake on flat, low plain near fire break. Fire break appears to have been pushed through middle of fire break.	Samphire flats under mixed Melaleuca species, Regelia ciliata, Kunzea micrantha, K. ericifolia, Acacia saligna and Eucalyptus rudis.	3 mature plants, several seedlings over an area of 5 x 5 m.	Potential threats are weeds, salinity and firebreaks.	UNK	2	11/07/2007
18873	7745494	3863	Dillwynia dillwynioides	3		Grey, inundated, saline, clay sand. On lake edge on flat, low plain near firebreak.	Mixed Melaleuca over samphire species, Calothamnus lateralis, Hakea varia, Melaleuca incana ssp. incana, M. osullivanii, Watsonia, Melaleuca cuticularis.	1 mature plant, 3 seedlings over area of 1 x 1 m.	Potential threats include firebreaks, weeds and salinity.	UNK	2	9/07/2007
18878	720801	3863	Dillwynia dillwynioides	3	Slender shrub up to 4 ft. Flowers orange, red.	Swampy roadside.				AUTO	3	3/10/1965
18880	6084370	3863	Dillwynia dillwynioides	3	Erect shrub 2 m high. Flowers yellow and orange, crowded in a short terminal raceme.	Swamp and estuarine wetland deposits during Holocene Period. Moderate litter cover less than 5%. Black sandy loam over aeolian and marine deposits.	Salt marsh vegetation with fringing estuarine forest. Sarcocornia quinqueflora, Casuarina obesa, Melaleuca raphiophylla, Eucalyptus rudis.	common in the wet area.		MAN	3	/10/2001
18962	917575	10796	Diuris drummondii	T		Edge of swamp.	Paperbarks			MAN	3	30/11/1956
19227	8603391	1639	Drakaea elastica	T		Grey sand.	Kunzea glabrescens thickets among Banksia woodland. Banksia attenuata, Kunzea glabrescens, Drakea glyptodon.	1000+ plants, only 50-1000 seen in flower.	Used for pollinator baiting experiments.	GPS	1	2/10/2007

FID	Sheet	NameID	Taxon	Cons_Cod e	Plant_Desc	Site	Vegetation	Frequency	Notes	Geo_Met hod	Precision	Date
19229	231231	1639	Drakaea elastica	T						MAN	3	16/10/1920
19232	231223	1639	Drakaea elastica	T						MAN	3	16/10/1920
19240	7439857	1639	Drakaea elastica	T		Low plain. Moist grey sand.	Thicket with associated vegetation: Kunzea sp.	10 mature plants in area ca 200 m x 200 m.	Healthy population. Plants are scattered through bushland on proposed road alignment. Bushland appears in excellent condition. Roadworks are potential threat.	GPS	1	12/09/2006
19242	1829971	1639	Drakaea elastica	T	Erect tuberous herb to 26 cm high. Leaves shiny light green.	Gently undulating terrain and white sand.	Eucalyptus marginata, Banksia attenuata, B. ilicifolia and Casuarina fraseriana woodland over dieback affected scrub and thickets of Kunzea ericifolia.		Abundance: One colony of six plants seen in bud.	MAN	0	25/09/1990
21556	6428304	41801	Eryngium pinnatifidum subsp. Palustre (G.J. Keighery 13459)	3	Annually renewed herb, flowers white/green/purple.	Dry Flat, brown sand, well drained.	Associated species: Eucalyptus calophylla.			GPS	1	9/11/1995
24494	1505548	13512	Eucalyptus rudis subsp. cratyantha	4	Bark thin, grey, shortly fibrous, with shallow longitudinal fissures, thicker and sometimes tessellated with age.		With E. calophylla and Melaleuca preissiana.			MAN	0	13/08/1979
24498	4918819	13512	Eucalyptus rudis subsp. cratyantha	4	Tall slender tree, rough bark for basal 2 m, white-grey smooth above. Flowers white, in full flower.				Abundance: locally dominant.	MAN	0	10/06/1995
24501	6101232	13512	Eucalyptus rudis subsp. cratyantha	4	Erect, spreading tree 7-8 m high x 3-4 m wide. Rough bark, light grey. Leaves petiolate.	Swamp and estuarine wetland deposits during holocene period. Moderate litter cover less than 5%. Black sandy loam over aeolian and marine deposits.	Salt marsh vegetation with fringing estuarine forest. Salt marsh Sarcocornia quinqueflora with Casuarina obesa, Melaleuca rhaohiophylla, Eucalyptus rudis.			MAN	3	24/01/2002

FID	Sheet	NameID	Taxon	Cons_Cod e	Plant_Desc	Site	Vegetation	Frequency	Notes	Geo_Met hod	Precision	Date
34508	1131214	20462	<i>Jacksonia gracillima</i>	3					Checked in W.E. Blackall's collecting book. Not recorded. - M.A. Lewington 17/7/2009	MAN	3	/08/1939
34665	1131753	4027	<i>Jacksonia sericea</i>	4		Deep grey sand.	<i>Banksia</i> woodland, beneath <i>B. attenuata</i> and <i>B. ilicifolia</i> stand.			MAN	3	21/02/1966
34666	1131745	4027	<i>Jacksonia sericea</i>	4		Deep grey sand.	<i>Banksia</i> woodland, beneath <i>B. attenuata</i> and <i>B. ilicifolia</i> .			MAN	3	21/02/1966
34667	5437784	4027	<i>Jacksonia sericea</i>	4	Prostrate shrub 10 cm high, 2 m wide; sterile, only a few spiny branchlets.	Limestone ridge, brown orange sand with outcropping limestone over Tamala limestone.	Mixed Low Heath C of <i>Grevillea preissii</i> , <i>Rhagodia baccata</i> and <i>Melaleuca acerosa</i> .	locally abundant.		GPS	1	30/06/1999
34668	5437768	4027	<i>Jacksonia sericea</i>	4	Prostrate shrub 10 cm high, 2 m wide; old fruit; reflexed peduncles, no spiny branchlets; could be considered <i>J. sericea</i> .	Limestone ridge, brown-orange sand with outcropping limestone over Tamala limestone.	Mixed Low Heath C of <i>Grevillea preissii</i> , <i>Rhagodia baccata</i> and <i>Melaleuca acerosa</i> .	locally abundant.		GPS	1	30/06/1999
34676	5962528	4027	<i>Jacksonia sericea</i>	4			<i>Eucalyptus gomphocephala</i> Open Woodland over Mixed Dense Low Heath C over Mixed Low Heath D.			MAN	3	4/11/1998
34679	7508239	4027	<i>Jacksonia sericea</i>	4		Gently sloping easterly facing upland site. Surface soil orange sand with limestone exposed on 1-10% of surface. Sub-surface soil orange sand with subsurface limestone. Well-drained. Litter cover - 2-10% and >5 cm depth; bare ground cover - 10-30%.	<i>Allocasuarina humilis</i> , <i>Melaleuca systema</i> and <i>Hakea prostrata</i> Shrubland over <i>Grevillea preissii</i> subsp. <i>preissii</i> Open Low Shrubland, over <i>Avena barbata</i> Grassland, <i>Conostylis candidans</i> subsp. <i>calcicola</i> Very Open Herbland and <i>Desmodcladus flexuosus</i> Open Sedge			GPS	1	16/10/2005
34682	7577907	4027	<i>Jacksonia sericea</i>	4		Slope. Dry red-brown sand with limestone rock.	Low shrubland. Associated species: <i>Allocasuarina humilis</i> , <i>Santalum acuminatum</i> , <i>Acacia rostellifera</i> , <i>Grevillea vestita</i> , <i>Rhagodia baccata</i> , <i>Hakea trifurcata</i> , <i>H. prostrata</i> , <i>Conostylis aculeata</i> .	20+ mature plants.	Condition of population: moderate.	GPS	1	22/01/2007
34694	1131257	4027	<i>Jacksonia sericea</i>	4	Bush to ca 1 ft. Flowers orange, standard deeper orange.	Sand over limestone.				MAN	3	10/11/1969
34697	8341036	4027	<i>Jacksonia sericea</i>	4	Perennial, prostrate 0.5 m high x 2 m wide. Flowers yellow-orange.	Plain, grey sand,	Low shrubland, bare areas. <i>Banksia attenuata</i> , <i>Acacia pulchella</i> , <i>Acacia cyclops</i> , <i>Grevillea crithmifolia</i> , <i>Scaevola crassifolia</i> .	over 50 plants.	Percentage of population flowering 90%.	GPS	1	24/11/2011
34797	3138321	19272	<i>Johnsonia pubescens</i> subsp. <i>cygnorum</i>	2			<i>Banksia</i> woodland.			AUTO	4	16/11/1992
34798	1969501	19272	<i>Johnsonia pubescens</i> subsp. <i>cygnorum</i>	2	Clumped rhizomatous herb to 30 cm diam., foliage grey, flowers white, green tinge.	Grey sand.	Open <i>Banksia</i> - <i>Casuarina</i> woodland.			AUTO	3	29/09/1982

FID	Sheet	NameID	Taxon	Cons_Cod e	Plant_Desc	Site	Vegetation	Frequency	Notes	Geo_Met hod	Precision	Date
34799	6632335	19272	Johnsonia pubescens subsp. cygnorum	2	Herb, 15 cm.	Grey sand with thin litter layer.	Banksia attenuata, B. menziesii, B. ilicifolia low woodland over scattered Adenanthos cygnorum ssp. cygnorum over Allocasuarina humilis, Melaleuca thymoides open shrubland over Leucopogon conostephioides, Calytrix flavescens, Scholtzia involucrata, Stirl			MAN	2	26/10/1999
35562	7390025	5038	Lasiopetalum membranaceum	3		Western boundary near firebreak.	Tuart/Banksia/Sheoak woodland.		Opportunistic collection.	GPS	1	1/11/2005
40018	9207767	6193	Myriophyllum echinatum	3	Erect annual herb.	Dampland.	Meeboldina cana, Chaetanthus aristatus, Juncus pallidus, Isolepis cernua var. setiformis, very open sedgeland with Cotula coronopifolia, Villarsia capitata open herbland and Cynodon dactylon (couch) grassland. Associated species: Myriocephalus helichryso			GPS	1	/12/2006
40508	2995409	36200	Ornduffia submersa	4		Freshwater lake.				AUTO	3	//
40754	4190211	6573	Parsonsia diaphanophleba	4	Vine, to 10 m, rampant on trees. Flowers pale pink, in full flower.	Edges and banks of Serpentine River. Sand over clay.	Eucalyptus rudis forest.			MAN	0	20/04/1992
40756	1139509	6573	Parsonsia diaphanophleba	4	Twining climber 2.5 m.		In Melaleuca raphiophylla fringing vegetation.			MAN	3	30/06/1983
40765	7329601	6573	Parsonsia diaphanophleba	4	Vine 10 m high. Flowers pale pink; largely post flowering.	Riverine floodplain. Semi-saline clay.	Casuarina obesa low forest.	uncommon.		GPS	1	5/01/2006
40766	6513042	6573	Parsonsia diaphanophleba	4	Creeper.	River spit, brown loam.	Eucalyptus rudis Forest over mixed Thicket.		scattered, plants inconspicuous as they festoon higher branches of Eucalyptus rudis trees.	GPS	1	31/08/1995
41918	3409317	5237	Pimelea calcicola	3	Small shrub to .3 m. Flowers very thick, colours from a pale pink to a dark purple, pink. Plant have a single trunk.	Flat area, very low. Soil deep and shallow pockets, whitish, calcrete outcrops, top soil light orange-brown to 6 inches.	Mid open heath, Grevillea, Lobelia, Gompholobium and Conostylis.			AUTO	3	5/11/1975
41920	3409139	5237	Pimelea calcicola	3	Spreading erect multistemmed shrub 30 cm high. Flowers pale pink.	Limestone ridge. Grey sand over limestone.	Coastal limestone heath.		Abundance: common.	AUTO	3	17/09/1983
41923	3409333	5237	Pimelea calcicola	3						AUTO	3	21/10/1962
41925	3409147	5237	Pimelea calcicola	3	Shrub to 2 ft. Flowers pale to deep pink.	Sand over limestone.				AUTO	3	10/11/1969
41927	3409163	5237	Pimelea calcicola	3	Frutex 30-40 cm alt., perianthium roseum.	In arenosis.				AUTO	3	/10/1964
41928	2936518	5237	Pimelea calcicola	3	Erect soft shrub with rootstock 30 cm high, flowers pale pink to deep pink.	Ridges on flat plain, grey sand over limestone.	Low limestone heath.		Abundance: common	AUTO	3	19/09/1983
44583	7536070	980	Schoenus capillifolius	3	Reproductive state: vegetative.	Inundated grey clay.	Dense Low Forst of Melaleuca raphiophylla. With Baumea articulata, Triglochin linearis, Villarsia albiflora, Callitriche stagnalis, Lemna disperma, Cotula coronopifolia.	large numbers, 40% cover.	Condition of population: healthy.	GPS	1	15/09/2006

FID	Sheet	NameID	Taxon	Cons_Cod e	Plant_Desc	Site	Vegetation	Frequency	Notes	Geo_Met hod	Precision	Date
46022	6406173	20348	Sphaerolobium calcicola	3	Multistemmed tall shrub, 1-1.5 m high x 50 cm wide. Flowers yellow, w/keel red, eye yellow, in full flower.	Interdunal swamp. Black sandy clay over limestone. Clay.	Melaleuca raphiophylla low woodland over Gahnia trifida.	common.		GPS	1	20/06/1997
46025	7508298	20348	Sphaerolobium calcicola	3		Very gently sloping easterly facing wetland site. Surface soil grey-grey/brown clay loam. Poor drainage, wet in winter/spring. Litter cover - 70% and <1 cm depth; bare ground <10%.	Cassytha sp. Very Open Climber over Melaleuca viminea Open Heath, over Vulpia sp. Open Grassland and Gahnia trifida Open Sedgeland.		Adjacent to quadrat.	GPS	1	16/10/2005
46257	6632386	49715	Stachystemon exilis	1	Shrub 30 cm.	Lower slope of a small dune. Grey sand with thin litter layer.	Banksia attenuata, B. menziesii, B. ilicifolia low open forest over Kunzea recurva x ericifolia tall shrubland over Melaleuca thymoides open heath over Eremaea pauciflora ssp. pauciflora, Scholtzia involucreta, Calytrix flavescens open low heath over Des			MAN	2	17/11/1999
47318	4495403	7756	Stylidium longitubum	4	Delicate annual herb.	Soil: Peaty sand. Topography/drainage: Seasonally wet poorly drained flat adjacent to river channel. Geomorphology: Alluvial deposits (pinjarra plain).	Vegetation: Eucalyptus rudis Low Forest A over Hakea varia, Melaleuca raphiophylla Thicket over Leptocarpus aff. royci Tall Sedges.			GPS	1	4/11/1992
47319	4555708	7756	Stylidium longitubum	4	Delicate annual herb.	Soil: Brown sand. Topography/drainage: Seasonally wet poorly drained flat. Geomorphology: Swamp deposits - holocene.	Vegetation: Melaleuca raphiophylla Low Forest B over exotic Very Open Low Grass over Lotus sauveolens, Stylidium longitubum Herbs over Lepidosperma longitudinale Tall Sedges.			GPS	1	6/11/1993
47324	4231678	7756	Stylidium longitubum	4	Erect annual herb. Flowers pink, with dark longitudinal stripe.	Grey clay.	Casuarina obesa open woodland.			MAN	0	16/11/1992
47331	6569757	7756	Stylidium longitubum	4	Annual herb, flowers pink.	Wet Flat, brown sandy loam over cream sand, poor drainage, wet during winter/spring.	Associated species: Banksia menziesii, Banksia ilicifolia, Banksia attenuata.			GPS	1	28/11/1995
48401	6443052	48297	Styphelia filifolia	3	Erect shrub to 90 cm high and 70 cm wide. Flowers white, strictly pendulous.	Coastal plain. Dry littered. Grey sand.	Banksia woodland. B.attenuata, B. menziesii, B. ilicifolia, Kunzea glabrescens.	occasional.		MAN	2	28/04/2002
49351	9207759	18590	Synaphea sp. Fairbridge Farm (D. Papenfus 696)	T	Dense clumped shrub.	Broad plain.	Degraded road verge.			GPS	1	/12/2006
49352	5892473	18590	Synaphea sp. Fairbridge Farm (D. Papenfus 696)	T	Compact perennial shrub 45 cm high x 45 cm wide. Active growth phase. Flowers yellow. Fruits present.	Grey clayey sand. Edge of seasonal swamp.	Scrubland. Growing with Synaphea sp. Pinjarra.	locally frequent.	80+% of population flowering.	MAN	3	/10/2001
49353	5551285	18590	Synaphea sp. Fairbridge Farm (D. Papenfus 696)	T				5 plants observed.		MAN	3	/10/1999
49354	5551277	18590	Synaphea sp. Fairbridge Farm (D. Papenfus 696)	T				30 plants observed.		MAN	3	/10/1999
49355	5551293	18590	Synaphea sp. Fairbridge Farm (D. Papenfus 696)	T						MAN	3	/10/1999

FID	Sheet	NameID	Taxon	Cons_Cod e	Plant_Desc	Site	Vegetation	Frequency	Notes	Geo_Met hod	Precision	Date
49358	7469217	18590	Synaphea sp. Fairbridge Farm (D. Papenfus 696)	T	Dense clumped shrub, 30 cm high x 60 cm wide. Inflorescences erect, rachis straight, green. Perianth pubescent, ascending. Stigma with broad lateral lobes.	Moist, grey - brown clay loam on disturbed road verge.	Very degraded Corymbia calophylla open woodland remnant with understorey vegetation comprising low shrubs of Acacia pulchella, Adenanthos meisneri, Stirlingia latifolia, Xanthorrhoea preissii, Kennedia prostrata, Mesomelaena tetragona, Patersonia occident	9 plants.		GPS	1	20/09/2003
49362	7463634	18590	Synaphea sp. Fairbridge Farm (D. Papenfus 696)	T	Dense, clumped subshrub. Leaves highly divided with fine ultimate lobes. Inflorescences erect, rachis straight. Perianth ascending, finely pubescent.	Rail reserve. Gently sloping land between seasonally wet area and upper slope, and low land near railway line. Grey-brown sandy loam on lower slopes.	Wet and dry heath, showing a preference for more exposed, sparsely vegetated areas. With Xanthorrhoea preissii, Anigozanthos manglesii, Adenanthos meisneri, Mesomelaena tetragona and Conostylis sp., plus weed invasion by Eragrostis curvula and Briza maxi	66 living plants, 1 dead plant.		GPS	1	11/09/2003
49367	7469209	18590	Synaphea sp. Fairbridge Farm (D. Papenfus 696)	T	Dense, clumped subshrub. Leaves highly divided with fine ultimate lobes. Inflorescences erect, rachis straight. Perianth ascending, finely pubescent.	Moist, grey - brown, sandy loam on a winter wet low plain.	Narrow strip of Pericalymma ellipticum and Melaleuca sp. dense shrubland with Xanthorrhoea preissii, Adenanthos meisneri, Acacia applanata, Dryandra nivea, Conostylis sp., Watsonia bulbifera and weedy grasses.			GPS	1	7/09/2003
49368	8114226	18590	Synaphea sp. Fairbridge Farm (D. Papenfus 696)	T	Upright to sprawling dwarf shrub 25 cm tall. Rachis and peduncle green, stems green-yellow. Leaf division regular, pinnatifid. Lobes multiplanar with inrolled margins.	Sloping towards roadside ditch. Along fence line. Grey-brown sand and lateritic gravel over laterite.	Disturbed roadside with Corymbia calophylla, Jacksonia, Briza, large numbers of weeds.	occasional - 3 plants seen but area not thoroughly searched.		GPS	1	27/10/1997
49392	5206359	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	Compact shrub 40 cm high x 50 cm wide. Flowers yellow. Active growth phase.	Swamp. Grey clayey sand.	With Eragrostis.		Abundance: occasional . 80+% of population flowering.	GPS	1	22/09/1998
49393	9207740	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	Compact shrub.	Broad valley floor (depression between two low rises), probably artificial area - track on E side, fence/paddock on W side. Grey sand.	Kunzea glabrescens scattered tall shrubs over Regelia ciliata, Pericalymma ellipticum heath over Adenanthos meisneri, Meeboldina scariosa, Mesomelaena tetragona very open sedgeland.			GPS	1	/12/2006
49394	5811023	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T						MAN	3	//
49395	5892503	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	Compact, perennial shrub 45 cm high x 40 cm wide. Flowers yellow. Range of age fruits present.	Grey clayey sand. Edge of seasonal swamp.	Scrubland.	locally frequent.	80+% of population flowering. Northern limit of population.	MAN	3	/10/2001

FID	Sheet	NameID	Taxon	Cons_Cod e	Plant_Desc	Site	Vegetation	Frequency	Notes	Geo_Met hod	Precision	Date
49396	7463537	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	Prostrate. Typical leaf form. Older flowers senescing, no fruits seen.	Moderately steep embankment, sloping east towards the rail line from the road reserve. Moist grey sandy loam.	Corymbia calophylla and Eucalyptus marginata open woodland remnant with Kingia australis and Xanthorrhoea preissii over low shrub understorey of sparse Pericalymma ellipticum with Hovea elliptica, Acacia applanata, Bossiaea sp., Restionaceae spp., Ehrhar	1 plant.		GPS	1	6/09/2003
49397	7463553	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	Typical. Small leaves with rounded apices on short, pilose petioles. Small, crowded flowers in long, undulating spikes.	Moist, dark grey sandy loam.	Wet heath composed of Pericalymma ellipticum, Xanthorrhoea preissii, Kingia australis, Adenanthos meisneri and species of Conostylis, Drosera and Hibbertia, frequently with high levels of Watsonia meriana var. bulbiflora, Eragrostis curvula and Homeria	locally common.		GPS	1	17/09/2003
49398	7463545	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	Typical looking specimen. Smaller leaves and flowers than others at this site.	Wet depression to the west of drainage channel near to access track. Grey clayey sand.	Low shrubland comprised of Pericalymma ellipticum, Regelia ciliata and Taxandria sp. with Xanthorrhoea preissii, Stirlingia latifolia and Restionaceae species, Watsonia meriana var. bulbiflora, Eragrostis curvula, Sonchus oleraceus and Avena barbata.	rare.		GPS	1	7/09/2003
49399	8031436	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T		Near fence and adjacent to the track on W side of Rail.	Amongst native shrubs.			GPS	3	/08/2008
49400	8031975	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T				1 near rail road.		GPS	3	/08/2008
49401	8031932	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T		E side of railway line.				GPS	3	/08/2008
49402	8031444	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T				3 plants in enclosure.		GPS	3	/08/2008
49403	7836465	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	Typical. Small leaves with rounded apices on short, pilose petioles. Small, crowded flowers in long undulating spikes.	Edge of inundated area in small marri woodland remnant. Moist dark grey sandy loam.	Corymbia calophylla open woodland with an understorey of Xanthorrhoea preissii and Restionaceae species, Synaphea sp. Pinjarra Plain. Weed invasion by Watsonia bulbiflora and Eragrostis curvula.	locally common.		UNK	2	17/09/2003
49404	7836473	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	Typical. Small leaves with rounded apices on short, pilose petioles. Small, crowded flowers in long undulating spikes.	Moist dark grey sandy loam.	Wet heath composed of Pericalymma ellipticum, Xanthorrhoea preissii, Kingia australis, Adenanthos meisneri and species of Conostylis, Drosera and Hibbertia, frequently with high levels of Watsonia bulbiflora, Eragrostis curvula and Homeria flaccida inv	locally common.		UNK	2	17/09/2003
49405	7836600	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	Typical. Small leaves with rounded apices on short, pilose petioles. Small crowded flowers in long undulating spikes.	Moist, dark grey sandy loam.	Wet heath composed of Pericalymma ellipticum, Xanthorrhoea preissii, Kingia australis, Adenanthos meisneri and species of Conostylis, Drosera and Hibbertia, frequently with high levels of Watsonia bulbiflora, Eragrostis curvula and Homeria flaccida inv	locally common.		UNK	2	17/09/2003
49406	7836589	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	Typical. Small leaves with rounded apices on short, pilose petioles. Small crowded flowers in long undulating spikes.	Moist dark grey sandy loam.	Wet heath composed of Pericalymma ellipticum, Xanthorrhoea preissii, Kingia australis, Adenanthos meisneri and species of Conostylis, Drosera and Hibbertia frequently with high levels of Watsonia bulbiflora, Eragrostis curvula and Homeria flaccida inva	locally common.		UNK	2	17/09/2004

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49407	7836597	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	Typical. Small leaves with rounded apices on short, pilose petioles. Small, crowded flowers in long undulating spikes.	Moist, dark grey sandy loam.	Wet heath composed of <i>Pericalymma ellipticum</i> , <i>Xanthorrhoea preissii</i> , <i>Kingia australis</i> , <i>Adenanthos meisneri</i> and species of <i>Conostylis</i> , <i>Drosera</i> and <i>Hibbertia</i> , frequently with high levels of <i>Watsonia bulbiflora</i> , <i>Eragrostis curvula</i> and <i>Homeria flaccida</i> inv	locally common.		UNK	2	17/09/2003
49408	7836503	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	Small pale green leaves with long lobes and rounded apices on short, pilose petioles. Small, crowded flowers in long undulating spikes.	Moist dark grey sandy loam.	Wet heath composed of <i>Pericalymma ellipticum</i> , <i>Xanthorrhoea preissii</i> , <i>Kingia australis</i> , <i>Adenanthos meisneri</i> and species of <i>Conostylis</i> , <i>Drosera</i> and <i>Hibbertia</i> , frequently with high levels of <i>Watsonia bulbiflora</i> , <i>Eragrostis curvula</i> and <i>Homeria flaccida</i> inv	locally common.		UNK	2	17/09/2003
49409	7836511	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	Typical looking specimen. Smaller leaves and flowers than others at this site.	Wet depression to the west of drainage channel near to access track. Grey clayey sand.	Low shrubland comprised of <i>Pericalymma ellipticum</i> , <i>Regelia ciliata</i> and <i>Taxandria</i> sp. with <i>Xanthorrhoea preissii</i> , <i>Stirlingia latifolia</i> and <i>Restionaceae</i> species plus <i>Watsonia bulbiflora</i> , <i>Eragrostis curvula</i> , <i>Sonchus oleraceus</i> and <i>Avena barbata</i> .	rare.		UNK	2	7/09/2003
49410	7836619	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	Typical. Small leaves with rounded apices on short pilose petioles. Small crowded flowers in long, undulating spikes.	Grey clayey sand in seasonally wet swampland.	Predominantly dense <i>Pericalymma ellipticum</i> shrubland. Southern edge of the population extends slightly into upland <i>Eucalyptus marginata</i> - <i>Allocasuarina fraseriana</i> woodland with low understorey of <i>Anigozanthos manglesii</i> , <i>Xanthorrhoea preissii</i> , <i>Burchardia um</i>	locally common.		UNK	2	11/09/2003
49411	7836635	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	Typical. Small leaves with rounded apices on short, pilose petioles. Small crowded flowers in long undulating spikes.	Grey clayey sand in seasonally wet swampland.	Predominantly dense <i>Pericalymma ellipticum</i> shrubland. Southern edge of the population extends slightly into upland <i>Eucalyptus marginata</i> - <i>Allocasuarina fraseriana</i> woodland with low understorey of <i>Anigozanthos manglesii</i> , <i>Xanthorrhoea preissii</i> , <i>Burchardia um</i>	locally common.		UNK	2	11/09/2003
49412	7836481	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	Typical. Small leaves with rounded apices on short, pilose petioles. Small, crowd flowers in long undulating spikes.	Moist dark grey sandy loam.	Wet heath composed of <i>Pericalymma ellipticum</i> , <i>Xanthorrhoea preissii</i> , <i>Kingia australis</i> , <i>Adenanthos meisneri</i> and species of <i>Conostylis</i> , <i>Drosera</i> and <i>Hibbertia</i> , frequently with high levels of <i>Watsonia bulbiflora</i> , <i>Eragrostis curvula</i> and <i>Homeria flaccida</i> inv	locally common.		UNK	2	17/09/2003
49413	5892481	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	45 cm high x 45 cm wide. Active growth phase. Flowers yellow. Range of age fruits present.	Grey sand. Edge of seasonal swamp.	Scrubland.	locally frequent.	80+% of population flowering. Southern limit of population.	MAN	0	/10/2001

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49414	7836627	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	Typical. Small leaves with rounded apices on short, pilose petioles. Small crowded flowers in long undulating spikes.	Moist, dark grey sandy loam.	Wet heath composed of <i>Pericalymma ellipticum</i> , <i>Xanthorrhoea preissii</i> , <i>Kingia australis</i> , <i>Adenanthos meisneri</i> and species of <i>Conostylis</i> , <i>Drosera</i> and <i>Hibbertia</i> , frequently with high levels of <i>Watsonia bulbiflora</i> , <i>Eragrostis curvula</i> and <i>Homeria flaccida</i> inv	locally common.		UNK	2	17/09/2003
49415	7836538	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	Typical looking specimen. Smaller leaves and flowers than others at this site.	Wet depression to the W of drainage channel near to access track. Grey clayey sand.	Low shrubland comprised of <i>Pericalymma ellipticum</i> , <i>Regelia ciliata</i> and <i>Taxandria</i> sp. with <i>Xanthorrhoea preissii</i> , <i>Stirlingia latifolia</i> and <i>Restionaceae</i> species plus <i>Watsonia bulbiflora</i> , <i>Eragrostis curvula</i> , <i>Sonchus olearaceus</i> and <i>Avena barbata</i> .	rare.		UNK	2	7/09/2003
49416	7212992	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	Dwarf shrub, 50 x 70 cm. Leaves short with broad, rounded lobes. Leaves pale green with fine, shallow reticulation. Rachis green, peduncle red and green.	Seasonally wet lowland by side of railway. White-grey clayey sand over granite.	<i>Pericalymma ellipticum</i> dominated low shrubland with <i>Hakea</i> , <i>Xanthorrhoea</i> , <i>Lambertia</i> , <i>Dasyopogon</i> between areas of <i>Corymbia calophylla</i> / <i>Allocasuarina</i> woodland.	locally frequent in swampy area.		GPS	1	19/10/1998
49418	8245614	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T	Clumps large, probably without lignotuber, flowers bright yellow, no scent. Fruit reddish above.	In gravelly sandy loam, on flat by railway.	With Marri woodland.			GPS	1	12/10/1993
49420	5427479	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T	Erect shrub 0.3 m high x 0.2 m wide. Divided leaves, medium sized. Yellow tubular flowers.	Flat. Moist, grey, sandy clay. Pinjarra Plain.	Heath. Characteristic species: Marri, other <i>Synaphea</i> .	occasional.	Grows in an area with other <i>Synaphea</i> - one large leafed, one fine leafed.	MAN	0	1/09/1999
49423	5297222	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T	Compact, 45 cm high x 45 cm wide. Flowers yellow. Growth phase: active.	Swamp. Brown loam.	<i>Watsonia</i> .	occasional.	80% of population flowering.	GPS	1	22/09/1998
49432	7463774	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T	Inflorescences exceeding leaves. Leaves with oblanceolate ultimate lobes; lobes thinner than in some other populations. Flowers ascending, dorsiventrally compressed; stigma lunate.	Red-brown clay loam near railway line.	<i>Corymbia calophylla</i> , <i>Eucalyptus marginata</i> woodland with <i>Nuytsia floribunda</i> over <i>Xanthorrhoea preissii</i> , <i>Kingia australis</i> , <i>Synaphea petiolaris</i> (RB 1014), <i>Mesomelaena tetragona</i> , <i>Anigozanthos manglesii</i> , <i>Lechenaultia biloba</i> , <i>Restionaceae</i> and young <i>Watsonia me</i>			GPS	3	19/09/2003
49433	7463782	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T	Small, clumped sub-shrub. Leaves more irregularly divided than other plants. Inflorescences ca 2 x greater than leaves. Peduncles redder than other plants. Flowers compressed. Stigma lunate. Towards end of flowering.	Wet depression between road and rail.	Shrubland dominated by <i>Leptospermum</i> with <i>Kunzea</i> and <i>Restionaceae</i> fringed by <i>Allocasuarina fraseriana</i> and <i>Corymbia calophylla</i> . Associated species: <i>Dasyopogon bromeliifolius</i> , <i>Xanthorrhoea preissii</i> , <i>Allocasuarina humilis</i> , <i>Stirlingia latifolia</i> , <i>Adenanthos obo</i>			GPS	3	6/09/2003

FID	Sheet	NameID	Taxon	Cons_Cod e	Plant_Desc	Site	Vegetation	Frequency	Notes	Geo_Met hod	Precision	Date
49434	7463804	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T	Leaves with oblanceolate lobes, lobes finer than RB 968. Flowers compressed dorsiventrally, glabrous, opening narrowly; stigma lunate. Fruits narrowly obovate on a thick neck.	Small patch of bush between railway, road and house; W side of drainage channel.	Low shrubland with Synaphea petiolaris.	7 finer-leaved plants; 57 broader-leaved plants at site.		GPS	1	6/09/2003
49437	7463855	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T	Very long inflorescences. Leaves with oblanceolate ultimate lobes. Flowers dorsiventrally compressed. Stigma transversely lunate with broad, divergent lobes.	Flat area at intersection dissected by drainage ditch.	Emergent marri over heath with Synaphea petiolaris.	locally common.		GPS	1	6/09/2003
49438	7463863	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T	Clumped sub-shrub 60-70 cm tall. Leaves dark green with linear-oblanceolate ultimate lobes, mid-vein raised, venation prominent. Petioles glabrous; sheathing base yellow-green. Very long inflorescences; peduncle and rachis thick; peduncle green and red,	Dark grey, moist, sandy loam.	Corymbia calophylla woodland remnant with low shrubland understorey comprising Pericalymma ellipticum, Xanthorrhoea preissii, Synaphea sp. Pinjarra (R. Davis 6578), Restionaceae with Eragrostis curvula and Watsonia meriana var. bulbilifera.	uncommon.		GPS	1	17/09/2003
49442	8031479	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T		Near road and behind bank.		2 plants.		GPS	3	/08/2008
49443	8031525	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T				3 plants.		GPS	3	/08/2008
49444	8031541	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T				4 plants in 3 group; triangle type 20 m apart.		GPS	3	/08/2008
49445	8031452	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T				1 plant.		GPS	3	/08/2008
49446	8031592	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T				3 plants.		GPS	3	/08/2008
49447	8031568	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T		Near road and behind bank.				GPS	3	/08/2008
49448	8031495	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T		Near road and behind bank.		2 plants.		GPS	3	/08/2008
49449	8031576	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T				2 plants.		GPS	3	/08/2008
49450	8031533	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T				3 in front and 5 at back.		GPS	3	/08/2008
49451	8031509	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T		Near rail line.		3 plants.		GPS	3	/08/2008
49452	8031924	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T				20 plants in area ca 50 m x 8 m.		GPS	3	/08/2008
49453	8031940	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T		Road on W side of railway line, N of Shanns Road.		3-4 plants.		GPS	3	/08/2008
49454	8031959	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T		Road on W side of railway line, N of Shanns Road.		3-4 plants.		GPS	3	/08/2008
49455	8031967	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T		Road on E side of railway line, N of Shanns Road.		many plants.		GPS	3	/08/2008
49456	8031487	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T				1 plant.		GPS	3	/08/2008
49457	8031460	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T				13 plants.		GPS	3	/08/2008

FID	Sheet	NameID	Taxon	Cons_Cod e	Plant_Desc	Site	Vegetation	Frequency	Notes	Geo_Met hod	Precision	Date
49458	8031606	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T				13 plants.		GPS	3	/08/2008
49459	8031401	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T				3 plants.		GPS	3	/08/2008
49460	8031584	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T				3 plants.		GPS	3	/08/2008
49461	5297168	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T	Compact, 50 cm high x 40 cm wide. Growth phase: active.	Plain. Brown sandy clay.		occasional.	80% of population flowering.	GPS	1	23/09/1998
49468	9068678	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T	Small shrub to 30 cm, yellow flowers.	Dampland with brown clay loam. Last fire 2011.	Open woodland of <i>Corymbia calophylla</i> and <i>Allocasuarina fraseriana</i> ; over open shrubland of <i>Kingia australis</i> and <i>Xanthorrhoea preissii</i> ; over sparse shrubland of <i>Astartea affinis</i> ; over sedgeland of <i>Tetradlea octandra</i> and <i>Mesomelaena tetragona</i> . Associated spe	occasional to locally abundant.	Occurs from 1.2 km S to 0.57 km N of the intersection.	GPS	1	3/11/2011
49473	9068627	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T	Small shrub to 30 cm. Yellow flowers.	Brown sandy loam with ironstone gravel.	Woodland of <i>Corymbia calophylla</i> , <i>Eucalyptus wandoo</i> , <i>E. marginata</i> ; over open shrubland of <i>Xanthorrhoea preissii</i> , <i>Kingia australis</i> ; over open sedgeland of <i>Mesomelaena tetragona</i> , <i>Cyathochaeta avenacea</i> .			GPS	1	21/09/2012
49474	9068635	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T	Small shrub to 30 cm. Yellow flowers and green fruit.	Flat. Brown clay loam over ironstone gravel.	Occasional <i>Xanthorrhoea preissii</i> , over sedgeland of <i>Mesomelaena tetragona</i> , <i>Cyathochaeta avenacea</i> , <i>Meeboldina cana</i> and thick <i>Watsonia</i> spp.	occasional.		GPS	1	14/09/2012
49475	9068651	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T	Clumped small shrub with yellow flowers.	Flat with well drained, brown sandy loam.	Low <i>Corymbia calophylla</i> woodland; over heath of <i>Xanthorrhoea preissii</i> , <i>Kingia australis</i> ; over <i>Mesomelaena tetragona</i> , <i>Tetradlea octandra</i> , <i>Lomandra sericea</i> , <i>Desmodium fasciculatum</i> , <i>Caesia occidentalis</i> , <i>Synaphea</i> sp. Pinjarra (R. Davis 6578), <i>Acacia stenoph</i>	occasional - 2 plants.	All plants are on the E side of the track.	GPS	1	14/09/2012
49486	5298865	28354	Synaphea sp. Serpentine (G.R. Brand 103)	T	Compact shrub, 50 cm high x 50 cm wide. Flowers yellow. Growth phase: active.	Brown loam. Swamp.		frequent.	80% of population flowering.	GPS	1	24/09/1998
49490	5297184	28354	Synaphea sp. Serpentine (G.R. Brand 103)	T		Brown loam. Swamp.		occasional.		GPS	1	23/09/1998
49493	5298903	28354	Synaphea sp. Serpentine (G.R. Brand 103)	T	Compact shrub, 60 cm high x 50 cm wide. Flowers yellow. Growth phase: active.	Brown loam. Swamp.	<i>Eragrostis curvula</i> , <i>Watsonia</i> .	occasional.	80% of population flowering.	GPS	1	24/09/1998
49510	8057001	28354	Synaphea sp. Serpentine (G.R. Brand 103)	T	Perennial shrub 0.6 m high with yellow flowers.	Coastal plain wetland reserve, with brown clay soil. Burnt ca 3 years ago.	Low shrubland including <i>Hakea ceratophylla</i> , <i>Anigozanthos manglesii</i> , <i>Eutaxia virgata</i> , <i>Pimelea</i> sp., <i>Calectasia</i> sp., <i>Shoenus curvifolius</i> sedges and rushes.	Common.		GPS	1	4/09/2008

FID	Sheet	NameID	Taxon	Cons_Cod e	Plant_Desc	Site	Vegetation	Frequency	Notes	Geo_Met hod	Precision	Date
49569	7463111	16749	Synaphea stenoloba	T	Large plant 1 m x 0.9 m. Many mature stems from base. Numerous stems arising from nodes; internodes long. Flowers glabrous, crowded in inflorescence; peduncle thick, infused with red. No pilose hairs on petiole. Very narrow leaf lobes; lobing irregular,	Very narrow rremnant between rail access track and paddock fence. Depressed, swampy area to W of drainage ditch. Inundated, grey-brown, clay-loam.	Growing with tall Taxandria sp. shrubs through dense, low shrubland of ?Melaleuca, Stirlingia latifolia, Acacia alata, Adenanthos meisneri, Pericalymma ellipticum, Dryandra nivea, Hypocalymma angustifolium.	1 mature plant.		GPS	1	7/09/2003
53595	1894196	14714	Verticordia lindleyi subsp. lindleyi	4	Openly-branched shrub 50 cm tall; flowers pink.	On clay flat near drain.	In open scrub.			MAN	0	27/12/1988
53611	6428312	14714	Verticordia lindleyi subsp. lindleyi	4	Slender low shrub to 0.3 m by 0.2 m, flowers pink/mauve.	Wet Flat, orange brown sandy clay, poor drainage, wet during winter/spring.	Associated species: Viminaria juncea.			GPS	1	9/11/1995

FID	Popld	Nameid	Taxon	Cons Status	WAR ank	PopN umber	SubP opCode	Location	District	Vesting	Purpos e1	Purpos e2	CountDate	Method	Mat Cou nt	JuvC ount	See dCo unt	Live Tot al	Cou ntTy pe	Area Occu py	InFl owe r	Pop Con diti	Hab Con diti	HabNotes	Landform	SoilType	SoilColor	Drainage	
334	86277	3237	Acacia benthamii	2		3		Junction of Redhead and Hopelands Roads, ca. 6km NW North Dandalup. Land tenure unknown - WAHERB record only.	SWAN COASTAL	UNKNOWN	UNKNO WN		29/09/1998 0:00		0		0				N			Plain brown loam. Abundance: occasional.		LOAM	BROWN		
336	86279	3237	Acacia benthamii	2		5		Pagononi Block, Lakes Regional Park, Pagononi Road, Baldivis. Tenure Unknown -Herbarium record only.	SWAN COASTAL	UNKNOWN	UNKNO WN		22/09/2000 0:00		0		0				N			Eucalyptus gomphocephala tall woodland		SAND	GREY		
339	86282	3237	Acacia benthamii	2		8		Lot 203 Stock Rd. Stakehill	SWAN COASTAL	PRI			31/03/2005 0:00	ESTMT	0		20				N			VegClass:Open Jarrah&Tuart Woodland	FL_PLAIN	SAND	GREY		
931	92885	14932	Acacia lasiocarpa var. bracteolata long peduncle variant (G.J. Keighery 5026)	1		3		Ca 500m SW of the junction of Scott Rd and Lakes Rd.	PERTH HILLS	UNKNOWN			17/09/1967 0:00		0		0				N								
932	92886	14932	Acacia lasiocarpa var. bracteolata long peduncle variant (G.J. Keighery 5026)	1		4		Lowlands; Serpentine River.	PERTH HILLS	UNKNOWN			13/08/1992 0:00		0		0				Y			Euc. calophylla woodland		CLAY_SND	GREY		
4674	84937	1596	Caladenia huegelii	T	CR	24		Lowlands farm. ca 1km SW of shed.	SWAN COASTAL	PRI			28/07/1991 0:00	ESTMT	7		5	7			N			Sparse understorey. On edge of firebreak.	FL_PLAIN	SAND	WHITE		
4678	97276	1596	Caladenia huegelii	T	CR	31	A	Lowlands farm. 1km W of T-jnc of Rowe & Hopelands Rd then 400m N of S bdy of farm. West of firebreak/fence.	SWAN COASTAL	PRI			16/09/2005 0:00		2		2				N			Drakaea elastica, Caladenia flava, Caladenia discoidea, C macrostylis, Drakaea livida. Banksia Woodland.	FLAT	SAND	GREY		
4679	97277	1596	Caladenia huegelii	T	CR	31	B	Approximately 800m W of Rowe Rd & Hopelands Rd T-jnc. 10m N of track on N road res.	SWAN COASTAL	LGA	VER		5/10/2004 0:00		2		2				N			Conostylis aculeata, Sowerbaea, Annual grasses, Loxophleba sedges. Banksia Woodland.	FLAT	SAND	GREY		
4680	97278	1596	Caladenia huegelii	T	CR	31	C	Lowlands Farm, ca. 300m w of powerline along the southern boundary of farm, then north along firebreak ca. 200m, then east of firbreak, ca. 50m.	SWAN COASTAL	PRI			5/10/2004 0:00		1		1				Y			Banksia Woodland.	FLAT	SAND	GREY		
4741	84967	1596	Caladenia huegelii	T	CR	75		Private property, Lot 500. 410 Rapids Rd Serpentine. About 60m S of house, 100m W of Rapids Rd.	SWAN COASTAL	PRI			23/09/2010 0:00	ACT_IND	1		1				Y			Banksia illicifolia & B. grandis, Eucalyptus marginata. Many shrubs and herbs listed. Long unburnt.	FLAT	SAND	GREY		
4881	91482	13862	Caladenia speciosa	4		12		SE corner of Hopelands Farm, Hopelands Rd.	SWAN COASTAL	PRI			25/09/1990 0:00	ACT_IND	15		15				N			Gently undulating terrain.		SAND	WHITE		
5099	89641	11333	Calothamnus graniticus subsp. leptophyllus	4		15		PRI Lot.1. Private property in Page Road Bushland (Bush Forever Site.78)	SWAN COASTAL	PRI			1/11/1995 0:00		0		0				N					RIDGE	SND_CLAY	BROWN	
5319	86156	3006	Cardamine paucijuga	2		3		Private Lot 809. Pagononi Block, Pagononi Rd, Baldivis.	SWAN COASTAL	PRI			24/09/2000 0:00		0		0				N			Low rainforest.	OD_SWA MP	PEAT	BLACK	SEASINUN	
6194	89774	11657	Conostylis pauciflora subsp. pauciflora	4		6		Private Property, Lot 808, [adjacent to Lot 806 & 807]. Singleton. [Ca. 840m S along track from Pagononi Rd]. [Ca. 500m E of Mandurah Rd]. City of Mandurah.	SWAN COASTAL	PRI			27/09/2007 0:00		0		0				Y					SAND	BROWN		
6380	93204	16245	Cyathochaeta teretifolia	3		2		Private Property. SW corner of Lot 52 Mandurah Rd, Ravenswood. Drag Strip. 1 km S of Mandurah Rd, at 2.7 km E of the junction with Pinjarra Rd. Murray.	SWAN COASTAL	PRI			18/12/1995 0:00		0		0				N			Baumea articulata, Baumea vaginalis.	FLAT	PEAT	BLACK	SEASINUN	
7194	86764	3863	Dillwynia dillwynioides	3		4		Seasonal wetland adjoining Hymus Swamp. Ca 2 km N of Karnup Rd, at approx 1 km W of the junction with Yangetti Rd.	SWAN COASTAL	PRI			15/06/1994 0:00		0		0				N			Low lying seasonal wetland.				SEASINUN	
7196	86766	3863	Dillwynia dillwynioides	3		6		Wetland in Pagononi block, 11 km ENE of Mandurah. W side of Stock Route Rd, at ca 2.5 km S of Paganoli Rd.	SWAN COASTAL	SPC			15/06/1994 0:00		0		0				N			Wetland area.					
7199	86769	3863	Dillwynia dillwynioides	3		9		Baldivis Ordinance Reserve (ID: 37090).	SWAN COASTAL	EXD	OTH		15/09/2006 0:00	ESTMT	20		20				Y					OD_SWA MP	LOAM	GREY	
7200	86745	3863	Dillwynia dillwynioides	3		10		Walk track adj. to Serpentine River (W side), N side of Pinjarra Rd. Between St.Ives Retirement Village and Serpentine River (i.e. end of 2nd boardwalk).Lot 123.	SWAN COASTAL	PRI			30/10/2006 0:00	ESTMT	850		850				Y			DomSp:Viminarea sp., Pattersonia occidentalis, Leptosperma sp., Dampier sp., Kinzea/Hypolaena exsulca.	OD_RVRB K	CLA_LOA M			
7201	86746	3863	Dillwynia dillwynioides	3		11		Coodanup-Serpentine Rd (West), Track N from riverside. Lot 440.	SWAN COASTAL	PRI			30/10/2006 0:00	UNKNO WN	300		300				Y			DomSp:Jacksonia sp., Hypoleana exsulca, Gomophobium tomentosum.	OD_RVRB K	CLA_LOA M	RED_BRW N		
7203	86748	3863	Dillwynia dillwynioides	3		13		Water Corp, Un-Named Reserve (ID: 38749), N of Austin Bay.	SWAN COASTAL	WAT	OTH		14/11/2006 0:00	UNKNO WN	16		16				Y					OD_SWA MP	PEAT		

FID	Popld	Nameid	Taxon	Cons Status	WAR ank	PopN umbe r	SubP opCo de	Location	District	Vesting	Purpos e1	Purpos e2	CountDate	Method	Mat Cou n	JuvC ount	See dCo unt	Live Tot	Cou nty	Area Occu py	InFl owe r	Pop Con diti	Hab Con diti	HabNotes	Landform	SoilType	SoilColor	Drainage	
7206	86749	3863	Dillwynia dillwynioides	3		15		Serpentine River Reserve, Bridal trail off Caponi Rd (Possibly un-named reserve, ID:46501).	SWAN COASTAL	UNKNOWN	UNKNO WN		19/02/2007 0:00	ESTMT	100			100				N		DomSp:Viminaria juncea, Kunzea micrantha, Melaleuca pauciflora, Desmodcladus flexuosa.	OD_RVRB K	LOAM_SND	BROWN		
7210	86753	3863	Dillwynia dillwynioides	3		19		Goegrup Lake, N end of Caponi Rd. Lot 442.	SWAN COASTAL	PRI			1/10/2001 0:00		0			0				N		VegClass:Salt Marsh vegetation with fringing Estuarine forest.	OD_SWAMP	LOAM_SND	BLACK		
7211	98820	3863	Dillwynia dillwynioides	3		20	A	Baldivis Ordance Reserve (ID: 37090). Site 8, 1.4km S of Stakehill Rd and the N boundary of Baldivis Pine Plantation, Karnup.	SWAN COASTAL	EXD	TIM	OTH	4/11/1998 0:00		0			0				N			FL_PALU			SEASINUN	
7212	98821	3863	Dillwynia dillwynioides	3		20	B	Baldivis Ordance Reserve (ID: 37090). Site 10, 100m N of S boundary of Baldivis Pine Plantation & 1.8km E of Karri St, Karnup.	SWAN COASTAL	EXD	TIM	OTH	4/11/1998 0:00		0			0				N			FL_PALU			SEASINUN	
7285	89502	10796	Diuris drummondii	T	VU	35		PP lot 8000, NW area of the property. Ca 760m S of Vine Rd and Kwinana Fwy intersection. Department of communities land. Pop extends across the N boundary for 460m	SWAN COASTAL	PRI			12/11/2020 0:00	ACT_IND	0			0	PLANTS				GO OD		Seems to be evidence of drying. would have been seasonally inundated, but during this survey there was no evidence of this. Some high impact weeds are beginning to establish on the site, such as Arum lilly, cotton bush, fig and gladiolis angustus .	FLAT	PEAT	GRY_BLACK	SEASINUN
7296	107482	10796	Diuris drummondii	T	VU	42		'Murrayfield Air Park' Reserve 50750. Ca 1.3km NNW of Lakes Rd and Nambelup Rd intersection.	SWAN COASTAL	CC	CFF		28/11/2019 0:00	EXT_TRNS ###				0	PLANTS	####	Y	SEN VRY SCN _GO OD		Plants found predominantly in Very Open Sedgeland of Lepidosperma longitudinale and Juncus pallidus over Poaceae spp weeds (including Bromus, Avena & Briza), Prasophyllum drummondii, Microtis media, *Holcus lanatus and *Lotus subbiflorus.	FLAT	FSA_LOAM	BLACK	SEASINUN	
7312	90604	12938	Diuris micrantha	T	VU	3		Cooleenup Island, South Yunderup. Crown Reserve 23016. Site is ~90m N of the unmade Fawcett St (p791 of 2013 Melway Street Directory) and ~50m W of the E estuary. Boat access only.	SWAN COASTAL	LGA	REC		19/10/2010 0:00		0	0	0	0					DEGRAD ED		The dominant vegetation structure within the wider surveyed area was Low Open Forest of Eucalyptus rudis, Melaleuca rhapsiophylla over Tall Open Scrub of M. viminea, Kunzea ericifolia over Sedgeland and Herbland of Lepidosperma longitudinale, Brachyscome	FL_FLOOD	CLA_LOAM	BROWN	SEASINUN
7496	97395	1639	Drakaea elastica	T	CR	23	A	Private Property, Loc 16, part 2 (Lowlands Farm). 1km W of T-junction of Hopelands Rd & Rowe Rd, then ca 150m N of S boundary of Farm. East of fence. Shire of Serpentine-Jarrahdale.	SWAN COASTAL	PRI			9/08/2010 0:00		0			0				N		Intact		SAND	WHITE		
7497	97396	1639	Drakaea elastica	T	CR	23	B	Private Property, Loc 16, part 2 (Lowlands Farm). 1km W of T-junction of Hopelands Rd & Rowe Rd, then ca 400m N of S boundary of Farm. Ca 40m W of fence. Shire of Serpentine-Jarrahdale.	SWAN COASTAL	PRI			9/08/2010 0:00		0			0				N		Caladenia huegelii		SAND	WHITE		
7498	85067	1639	Drakaea elastica	T	CR	24		Private Property, Loc 16, part 2 (Lowlands Farm). Ca 600m N of S boundary of Farm, N of T-junction of Hopelands Rd & Rowe Rd, and then 150m E of track. Shire of Serpentine-Jarrahdale.	SWAN COASTAL	PRI			9/08/2010 0:00		0			0				N			OD_DRGL N				
7504	85073	1639	Drakaea elastica	T	CR	30		Private property, Lot 2 Lowlands Rd, Mardella (Lowlands Farm). S from Wilkinson Road/Serpentine River junction. Within 'Hymus Swamp' along the 'Dampier to Bunbury Natural Gas Pipeline Corridor'. Both sides of gas pipeline.	SWAN COASTAL	PRI			29/09/2005 0:00	ACT_IND	54			54				N		Banksia woodland over kunzea thicket.	FL_PLAIN	SAND	WHITE		
7513	97404	1639	Drakaea elastica	T	CR	36	A	Private Property, 601 Lakes Road, East Greenfields (Stake Hill). Main Roads vested, Lot 907 Fowler Road, Stake Hill. N off Lakes Road. Near junction with Lakelands Road. East of Private property Lot 601. Access road has been rehab'd and the eastern portion fenced. Plants mostly in SE cnr of lot.	SWAN COASTAL	PRI			9/09/2009 0:00	ACT_IND	64			64				N		Kunzea and banksia species	FL_PLAIN	SAND	GREY		
7514	97405	1639	Drakaea elastica	T	CR	36	B	Private Property, 601 Lakes Road, East Greenfields (Stake Hill). Main Roads vested, Lot 907 Fowler Road, Stake Hill. N off Lakes Road. Near junction with Lakelands Road. East of Private property Lot 601. Access road has been rehab'd and the eastern portion fenced. Plants mostly in SE cnr of lot.	SWAN COASTAL	MRD	GVT		17/08/2010 0:00	ESTMT	62			62				N		Kunzea glabrescens thicket with emergent Banksia spp.	FL_PLAIN	SAND	GREY		

FID	PopId	NameId	Taxon	Cons Status	WAR ank	PopN umbe r	SubP opCo de	Location	District	Vesting	Purpos e1	Purpos e2	CountDate	Method	Mat Cou n	JuvC oun t	See dCo unt	Live Tot al	Cou nty	Area Occu py	InFl owe r	Pop Con diti	Hab Con diti	HabNotes	Landform	SoilType	SoilColor	Drainage	
7515	97407	1639	Drakaea elastica	T	CR	37	A	Main Roads vested, Lot 212 Lymon Rd, Stake Hill. Between Stock Rd and Paganoni Reserve. Along edge of firebeak on W side of road reserve for future Kwinana Fwy extension. Population has been cleared for freeway extension.	SWAN COASTAL	MRD			1/09/2010 0:00	ACT_IND	0		0					N		Site has been cleared, some revegetation present.	FL_PLAIN	SAND	GREY		
7516	97408	1639	Drakaea elastica	T	CR	37	B	Rockingham Lakes Regional Park, Lot 809 - Paganoni Swamp area. Ca. 1km N of S boundary and 100m W of E boundary. Shire of Rockingham.	SWAN COASTAL	SPC	UNKNO WN		6/08/2010 0:00	ACT_IND	210	###	0					Y	HEA LTH Y	Kunzea thicket with emergent Banksia spp.	FL_PLAIN	SAND	WHITE		
7517	97409	1639	Drakaea elastica	T	CR	37	C	Private Property, Lot 519 Stock Rd, Stake Hill. North-eastern boundary of the property. [Adjacent to the west side of the Kwinana Freeway extension].	SWAN COASTAL	PRI			6/09/2010 0:00	ACT_IND	4	30	0	PLA NTS	1200	N		MO DER ATE	Dom sp: Drosera erythrorhiza, Drakaea livida, Leporella fimbriata, Banksia attenuata, B. menziesii.	FL_PLAIN	SAND	GREY			
7518	109312	1639	Drakaea elastica	T	CR	37	D	Rockingham Lakes Regional Park, Lot 180. Known as Paganoni. Access is off Paganoni Rd on the north boudary of the Park through locked gates. Plants are in the NE cnr ~730m S from NE cnr on firebreak, then ~388m W on track to plants closest to track.	SWAN COASTAL	SPC	OTH		19/08/2011 0:00	ACT_IND	3	29	0	PLA NTS	5401			HEA LTH Y	EXC ELE NT	Low Open Forest of Banksia attenuata, B. menziesii, Allocasuarina fraseriana over Tall Open Scrub of Kunzea glabrescens over Low Open Shrubland of Hibbertia hypericoides, Macrozamia riedlei, Brachyloma preissii with Very Open Hermland of Dasypogon bromel	FLAT	SAND	GREY	WLL_DRN D	
7519	97411	1639	Drakaea elastica	T	CR	38	A	Lot 50. Western side of Serpentine River, in WAPC land bounded by Stock, Lakes and Fowler Roads. Edge of Perth to Bunbury Hwy. Shire of Murray. Adjacent to Serpentine River NR, W side of bike path near SW cnr of reserve.	SWAN COASTAL	SPC			3/08/2010 0:00	ESTMT	104		104					N		Kinzea thicket with emergent Nuystia floribunda and Banksia spp. Adenanthos cygnorum, Macrozamia reidlei	FLAT	SAND	WHITE		
7520	97412	1639	Drakaea elastica	T	CR	38	B	Unnamed Nature Reserve (44986), Lot 4157. Near southern boundary of Reserve 44986 on the west side of Serpentine River. Occurs on N & S sides of central sandy track through reserve and scattered throughout vegetation in small clumps. Shire of Murray.	SWAN COASTAL	CC	CFE		23/07/2010 0:00	ACT_IND	99	321	0					N		Kunzea thicket with emergent Nuystia floribunda and Banksia sp.	FLAT	SAND	WHITE		
7521	97413	1639	Drakaea elastica	T	CR	38	D	Lot 50. Western side of Serpentine River, in WAPC land bounded by Stock and Lakes Roads and Forrest Hwy. South-Western side of Kwinana Freeway (freeway bisects Lot 50). Shire of Murray.	SWAN COASTAL	SPC			3/08/2010 0:00	ESTMT	26	66	0					N		Kinzea thicket with emergent Nuystia floribunda and Banksia spp. High level of Kunzea death.	FLAT	SAND	GREY		
7535	109313	1639	Drakaea elastica	T	CR	49		Freehold (WAPC Owned) Vacant Residential Lot 193. North end of Fiegert Road, East of Mandurah. Approx 400-500m North of Pinjarra Road. WAPC Reserve, 70m South West of Population.	SWAN COASTAL	SPC	UCL		22/07/2014 0:00	ACT_IND	0	3	6	0	PLA NTS	15	N		HEA LTH Y	GO OD	Woodland with large trees over sheoaks and low shrubs.	FLAT	SAND	WHITE	WLL_DRN D
7536	109909	1639	Drakaea elastica	T	CR	50		Jubata Reserve (CR 49425), Lot 1995, Dudley Park 6210. City Of Mandurah.	SWAN COASTAL	LGA	PAR		8/10/2015 0:00	ACT_IND	14	2	0	PLA NTS	3500	Y		HEA LTH Y	VR Y GO OD	Low Closed Forest of Eucalyptus marginata, Banksia grandis, B. attenuata, Kunzea glabrescens, Corymbia calophylla, Allocasuarina fraseriana over Very Open Dwarf Shrubland of Bossiaea eriocarpa, Acacia pulchella, Gompholobium tomentosum, Dasypogon obliqui	FL_PLAIN	SAND	GREY	WLL_DRN D	
7538	113829	1639	Drakaea elastica	T	CR	52		Private Property. Lot 223 Lakes Rd, Nambeelup. NW corner of the property. Population extends 100m NW of GPS coords.	SWAN COASTAL	PRI			13/10/2017 0:00	ACT_IND	24	50	0	PLA NTS	1026	Y		HEA LTH Y	VR Y GO OD	Moderate disturbance - Stock. Plants only present in open sandy areas	SLOPE	SAND	GREY	WLL_DRN D	
12297	94660	19272	Johnsonia pubescens subsp. cygnorum	2		2		Nambeelup Rd., ENE of Mandurah	SWAN COASTAL	LGA	VER		16/11/1992 0:00		0	0					N		Banksia sp.						
12628	87340	5038	Lasiopetalum membranaceum	3		24		STATE, Lot.809. WSWA Bushland Plant Survey in Paganoni Swamp, Paganoni Rd, Karnup. W boundary near firebreak.	SWAN COASTAL	PRI			1/11/2005 0:00		0	0						N		VegClass:Tuart/Banksia/Sheoak woodland					
14351	88790	6573	Parsonia diaphanophleba	4		3		Fringing the W bank of Serpentine River. E of Ibis Retreat. Benara Farm, Lot 2 of Pt Lot 42, Cockburn Sound Location 16.	PERTH HILLS	UNKNOWN			15/06/1983 0:00		0	0						N							

FID	PopId	NameId	Taxon	Cons Status	WAR ank	PopN umbe r	SubP opCo de	Location	District	Vesting	Purpos e1	Purpos e2	CountDate	Method	Mat Cou nt	JuvC ount	See dCo unt	Live Total	Cou ntTy pe	Area Occu py	InFl owe r	Pop Con diti	Hab Con diti	HabNotes	Landform	SoilType	SoilColor	Drainage	
15439	84515	980	Schoenus capillifolius	3		12		Baldevis Ordinance Reserve (No.37090), Rockingham	SWAN COASTAL	EXD			15/09/2006 0:00		0		0					N		VegClas:Dense low forest of Melaleuca raphiophylla. DomSp:Calliche staynalis (others - but illegible)	OD_SWAMP	CLAY	GREY		
15911	89311	7756	Stylidium longitubum	4		7		Yangedi Swamp. 0.6 km N of Elliot Rd, at ca 1.5 km E of the junction with Yangedi Rd.	SWAN COASTAL	PRI			28/11/1995 0:00		0		0					Y		Myriocephalus helichrysoides, Stylidium.	FLAT	LOAM_SND	BROWN		
15916	89293	7756	Stylidium longitubum	4		11		Un-named Reserve (ID: 44986), Paganoni block E of Mandurah Rd, 11km NNE of Mandurah near Serpentine River (adj. to plot paga-2).	SWAN COASTAL	CC	CFF		4/11/1992 0:00		0		0					N		DomSp: Melaleuca raphiophylla; GeoMorph: Alluvial deposits (pinjarra plain)	FL_PALU	PEAT		SEASINUN	
15919	89296	7756	Stylidium longitubum	4		14		PRI Lot.2. Remnant bushland near Hymus Swamp in SW cnr of lowlands property (M105), 11km WNW of Serpentine (plot hymus05).	SWAN COASTAL	PRI			6/11/1993 0:00		0		0					N		DomSp: Melaleuca raphiophylla, Lotus sauevolens	FL_PALU	SAND	BROWN	SEASINUN	
16288	94504	18590	Synaphea sp. Fairbridge Farm (D. Papenfus 696)	T	CR	2		Rail reserve, both sides of railway line between 1.8-2.45km south along rail service track from Shanns Road. Plants located on west side ca. 1.8km. Remaining plants on east side at ca. 2.0-2.15km and 2.35-2.45km in association with swampy areas.	SWAN COASTAL	RAI	RRE		23/09/2010 0:00	ACT_IND	159		14	0	PLANTS	1176	Y		HEALTHY			FL_PLAIN	SND_LOAM	GREY	
16293	103969	18590	Synaphea sp. Fairbridge Farm (D. Papenfus 696)	T	CR	3	E	Rail Reserve. Between 4.35-4.45km south of Karnup Road (Serpentine) along Hall Road east side of road in rail reserve (original 1999 collection at 200m north of Utley Road)	SWAN COASTAL	RAI	RRE		21/09/2010 0:00	ACT_IND	112		0	PLANTS	1600	Y		HEALTHY				FLAT	SND_CLAY	BRN_BLACK	
16296	107086	18590	Synaphea sp. Fairbridge Farm (D. Papenfus 696)	T	CR	3	H	Road Reserve. Between 4.35-4.45km south of Karnup Road and ~180m S of Utley Rd along Hall Road, east verge	SWAN COASTAL	LGA	VER		21/09/2010 0:00	ACT_IND	3		0	PLANTS	1600	Y		HEALTHY				FLAT	SND_CLAY	BRN_BLACK	
16305	94511	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	CR	1	A	Railway reserve. SW of North Dandalup. 3.1 km south along Shanns Road from Lakes Road intersection on the eastern side of the rail line. Plants occur within vegetation and on the edge of a cleared track closer to the rail line.	SWAN COASTAL	RAI	RRE		18/10/2017 0:00	ACT_IND	55	33	0	PLANTS	645	Y		HEALTHY	DEGRADED	Habitat 2 (mostly on rail reserve) is Heath of Pericalymma ellipticum, Kingia australis, Hakea sulcata and occasional Allocasuarina fraseriana and *Eragrostis curvula. This habitat is in Degraded to Completely Degraded condition.	FL_PALU	SND_CLAY	GREY		
16306	117510	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	CR	1	B	Road reserve. SW of North Dandalup. 3.1km south along Shanns Road from Lakes Road intersection on the eastern side of the rail line. Plants occur mostly on a cleared track and a few in vegetation closer to private property.	SWAN COASTAL	LGA	VER		18/10/2017 0:00	ACT_IND	14		0	PLANTS	560	Y		HEALTHY	DEGRADED	Habitat 1 (mostly on the road reserve on the east side of the rail line) is occasional Corymbia calophylla and Melaleuca viminea to 4m over Open Heath of Regelia ciliata, Hakea sulcata, Xanthorrhoea preissii over Low Open Shrubland of Kingia australis,	FL_PALU	SND_CLAY	GREY		
16307	94552	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	CR	2	A	Railway Reserve. SW of North Dandalup. 1.4 km to 2.1 km south along the rail access track from the intersection where Shanns Rd heads west. Most of the plants occur on the east side of the rail line with a few patches on the west.	SWAN COASTAL	RAI	RRE		13/09/2017 0:00	ACT_IND	686	40	0	PLANTS	####	Y		HEALTHY	VERY GOOD	Localised changes in vegetation composition and structure occur over the length of the habitat, but plants grow predominantly in Open to Closed Shrubland of Pericalymma ellipticum, Kingia australis, Xanthorrhoea preissii, X. brunonis over Low Shrubland o	CD_DMPLD	LOAM_SND	GREY		
16308	117470	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	CR	2	B	Road Reserve. SW of North Dandalup. 1.4 km to 2 km south along the rail access track from the intersection where Shanns Rd heads west. All plants occur on the east side of the rail line.	SWAN COASTAL	LGA	VER		13/09/2017 0:00		242	4	0	PLANTS		Y		HEALTHY	VERY GOOD	Localised changes in vegetation composition and structure occur over the length of the habitat, but plants grow predominantly in Open to Closed Shrubland of Pericalymma ellipticum, Kingia australis, Xanthorrhoea preissii, X. brunonis over Low Shrubland o	CD_DMPLD	LOAM_SND	GREY		

FID	PopId	NameId	Taxon	Cons Status	WAR ank	PopN umbe r	SubP opCo de	Location	District	Vesting	Purpos e1	Purpos e2	CountDate	Method	Mat Cou nt	JuvC ount	See dCo unt	Live Tot al	Cou ntTy pe	Area Occu py	InFl owe r	Pop Con diti	Hab Con diti	HabNotes	Landform	SoilType	SoilColor	Drainage
16309	117769	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	CR	2	C	Road Reserve. SW of North Dandalup. ca. 3 km south along the rail access track from the intersection where Shanns Rd heads west. Plants occur on the western side of the rail access track.	SWAN COASTAL	LGA	VER		31/10/2017 0:00	ACT_IND	3	1	0	0	PLANTS	23	Y	HEALTHY	GOOD	Occasional <i>Corymbia calophylla</i> over Shrubland of <i>Adenanthos cygnorum</i> , <i>Xanthorrhoea preissii</i> , <i>Xanthorrhoea brunonis</i> over Low Open Shrubland of <i>Pericalymma ellipticum</i> , <i>Stirlingia latifolia</i> , <i>Adenanthos meisneri</i> over occasional sedges and herbs of <i>Mesomelaena</i>	FL_PLAIN	SND_LOAM	GREY	WLL_DRND
16310	94553	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	CR	3		Rail Reserve. SW of North Dandalup, 2.3 km S of Shanns and Lakes Road intersection, on the W side of the rail line.	SWAN COASTAL	RAI	RRE		31/10/2017 0:00		0	0	0				N		GOOD	FL_PLAIN	SND_LOAM	GREY		
16311	94554	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	CR	4	A	Rail Reserve. SW of North Dandalup. ca. 3.6 km south along the rail access track from the intersection where Shanns Rd heads west. Plants occur on the west side of the rail line and access track.	SWAN COASTAL	RAI	RRE		31/10/2017 0:00		0	0	0				N		GOOD	CD_DMPLD	SND_LOAM	BROWN		
16312	117492	19055	Synaphea sp. Pinjarra (R. Davis 6578)	T	CR	4	B	Rail Reserve. SW of North Dandalup. ca. 3.8 km to 4.05 km south along the rail access track from the intersection where Shanns Rd heads west. Plants occur on the west side of the rail line and access track.	SWAN COASTAL	RAI	RRE		31/10/2017 0:00	ACT_IND	306	23	0	0	PLANTS	7420	Y	HEALTHY	GOOD	There are two localised habitats where plants occur. 1. Tall Open Scrub of <i>Kinzea glabrescens</i> , <i>Adenanthos meisneri</i> , <i>Kingia australis</i> over Sedgeland of <i>Tetragonia octandra</i> , <i>Tetragonia australiensis</i> (T), <i>Cyathochaeta avenacea</i> . Weeds are * <i>Eragrostis curvula</i> , *	CD_DMPLD	SND_LOAM	BROWN	
16313	107442	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T	EN	1	A	Shanns Rd. North, North Dandalup. Road Reserve from ~130m to 1.2km south of Lakes Rd. intersection. Plants occur in patches along both the road and rail reserve and are unable to be separated in the field.	SWAN COASTAL	LGA	VER		17/11/2011 0:00	ACT_IND	24	0	0	0	PLANTS	150	Y	Moderate	GOOD	Condition ranged from very good to degraded. As the plants occur in separated groups along the road reserve, they are growing in different vegetation layers. The layers entered on this form are not all in the one place.	CD_DMPLD	CLA_LOAM	BROWN	SEASINUN
16314	107444	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T	EN	1	B	Rail reserve, from 570m N Lakes Rd, North Dandalup, rail crossing (on both sides of the railway line) to 1200m S of the crossing (on the west side of the rail crossing). Plants occur in discrete groups throughout this section of rail reserve.	SWAN COASTAL	RAI	RRE		3/09/2012 0:00	ACT_IND	192	492	0	0	PLANTS	1046	Y	HEALTHY	GOOD	West of the Railway - Reveg species: Tall open shrubland <i>Acacia saligna</i> , <i>Hakea varia</i> , <i>Hakea lissocarpa</i> , <i>Corymbia calophylla</i> with <i>Anigozanthos manglesii</i> , <i>Kennedia prostrata</i> , <i>Hakea prostrata</i> . Drain Embankment - isolated <i>Acacia lasiocarpa</i> , <i>Grevillea bipin</i>	FLAT	SND_LOAM	BROWN	
16315	107445	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T	EN	1	C	CR50023 Between Atkins Rd and the Railline, from Lakes Rd to 121m north of the rail crossing.	SWAN COASTAL	LGA	REC		14/09/2012 0:00	ACT_IND	10	0	0	0	PLANTS	130	Y	HEALTHY	DEGRADED	Reveg species - Tall open shrubland <i>Acacia saligna</i> , <i>Hakea varia</i> , <i>Hakea lissocarpa</i> , <i>Corymbia calophylla</i> with <i>Anigozanthos manglesii</i> , <i>Kennedia prostrata</i> , <i>Hakea prostrata</i> Drain Embankment - isolated <i>Acacia lasiocarpa</i> , <i>Grevillea bipinnatifida</i> , <i>Haemodorum</i>	FLAT	CLA_LOAM	BROWN	SEASINUN
16316	107446	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T	EN	1	D	CR45103 Between Railway Ave and the Rail reserve, from 100m-760m N Lakes Rd rail crossing. Note - Most of the plants in this area occur in the railreserve. The plants in this area occur in two clumps 250m apart.	SWAN COASTAL	LGA	REC	OTH	3/09/2012 0:00	ACT_IND	8	5	0	0	PLANTS		Y	Moderate	VERYGOOD	Open Forest of <i>Corymbia calophylla</i> , over Shrubland of <i>Hakea varia</i> , <i>Hakea lissocarpa</i> , <i>Acacia pulchella</i> , <i>Xanthorrhoea preissii</i> , over Low shrubland <i>Hibbertia hypericoides</i> , <i>Bossiaea eriocarpa</i> with <i>Mesomelaena pseudostygia</i> , <i>Haemodorum sp</i> , <i>Pattersonia occiden</i>	FLAT	SND_LOAM	BROWN	WLL_DRND

FID	PopId	NameId	Taxon	Cons Status	WAR ank	PopN umbe r	SubP opCo de	Location	District	Vesting	Purpos e1	Purpos e2	CountDate	Method	Mat Cou nnt	JuvC ount	See dCo unt	Live Tot al	Cou nty	Area Occu py	InFl owe r	Pop Con diti	Hab Con diti	HabNotes	Landform	SoilType	SoilColor	Drainage
16317	107447	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T	EN	2		Unknown Road reserve, pop located 4.44 Km S of South St/Railway Ave intersection on an unmade road reserve on the E of the railway, North Dandalup. All plants are E of the track.	SWAN COASTAL	LGA	VER		14/09/2012 0:00	ACT_IND	2	0	0	0	PLANTS	10	Y	HEALTHY	GOOD	Low woodland of Corymbia calophylla, over Open Heath Xanthorrhoea preissii, Kingia australis, over Mesomelaena tetragona, Tetraia octandra, Lomandra sericea, Desmodcladus fasciculatus, Caesia occidentalis, Hypolaena ? exsulca, Synaphea sp Pinjarra (T). Occasional Xanthorrhoea preisii, over Sedgeland of Mesomelaena	FLAT	SND_LOAM	BROWN	WLL_DRND
16319	107449	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T	EN	4	A	Road Reserve on the E side of Atkins Rd, Keysbrook, W side of the railway line, 300-430m south of Page Road.	SWAN COASTAL	LGA	VER		14/09/2012 0:00	ACT_IND	1	0	0	0	PLANTS	6	Y	HEALTHY	DEGRADED	tetragona, Cyathochaeta avenacea, Meeboldina cana, and thick (30-70%) Watsonia spp.	FLAT	CLA_LOAM	BROWN	
16320	107451	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T	EN	4	B	Rail Reserve on the E side of Atkins Rd, Keysbrook, W side of the railway line, 300-430m south of Page Road.	SWAN COASTAL	RAI	RRE		14/09/2012 0:00	ACT_IND	6	0	0	0	PLANTS	70	Y	HEALTHY		Occasional Xanthorrhoea preisii, over Sedgeland of Mesomelaena tetragona, Cyathochaeta avenacea, Meeboldina cana, and thick (30-70%) Watsonia spp.	FLAT	CLA_LOAM	BROWN	
16321	107452	30751	Synaphea sp. Pinjarra Plain (A.S. George 17182)	T	EN	5		Reserve Reserve 15758. Corner of Elliot Rd and Baden Rd (N end of Atkins Rd) Keysbrook. Plants occur between Baden Rd and the Railway line, 80-150m north of the railway crossing.	SWAN COASTAL	RAI	RRE		27/10/2020 0:00	ACT_IND	16		0	0	PLANTS	1617	Y	Moderate	GOOD	Woodland of Corymbia calophylla, Eucalyptus wandoo, Eucalyptus marginata. over open shrubland of Xanthorrhoea preissii, Kingia australis, over open sedgeland Mesomelaena tetragona, Cyathochaeta avenacea.	FLAT	SND_LOAM	BROWN	WLL_DRND
16346	107546	28354	Synaphea sp. Serpentine (G.R. Brand 103)	T	CR	2	A	Lot 506 (No. 354) Rapids Road, Serpentine. Alive plants are located on both N & S edges of the N firebreak; ~320m and 465m NW of Rapids Rd along northern firebreak. (~46m due south of Karnup Rd).	SWAN COASTAL	SPC	UNKNOWN		28/10/2010 0:00	ACT_IND	4	0	0	0	PLANTS	46	Y	Moderate	Varying	Closed Heath Exposed Ironstone	CD_DMPLD	CLAY_SND	ORANGE	SEASINUN
16347	107548	28354	Synaphea sp. Serpentine (G.R. Brand 103)	T	CR	2	B	UCL Lot 61 Punrak Rd (wide bushland that runs parallel to Karnup Rd.) Plants are located from 348m to 740m W of Rapids Rds along Karnup Rd.	SWAN COASTAL	NON	UCL		28/10/2010 0:00	ACT_IND	18	0	0	0	PLANTS	4900	Y	HEALTHY	EXCELLENT	Tall Open Scrub and Low Open Shrubland in disturbed areas Exposed Ironstone	CD_DMPLD	CLAY_SND	ORANGE	SEASINUN
16386	93404	16749	Synaphea stenoloba	T	CR	12		Railway Reserve, W side. 3.4 km S along rail access track from Shanns Rd.	SWAN COASTAL	RAI	RRE		23/09/2010 0:00	ACT_IND	0		0	0	PLANTS		N				OD_SWAMP	CLA_LOAM	BROWN	
16442	96976	1033	Tetralia australiensis	T	VU	4	A	N side of Page Rd, ca. 0.25 km W of the junction with South Western Hwy. No 28, Lot 1. Occurs throughout bushland. Page Rd in road reserve North Dandalup. On N side of rd between 30 and 340m W of South Western Hwy, on S side of rd between 74 and 340m W of Hwy. Extends further west but not surveyed.	SWAN COASTAL	PRI			9/12/2009 0:00	ESTMT	###			###			N			Tetralia octandra, Patersonia babianoides. TEC type SCP3b.	SLOPE	SAND	YEL_BRWN	
16443	96977	1033	Tetralia australiensis	T	VU	4	B	Page Rd in road reserve North Dandalup. On N side of rd between 30 and 340m W of South Western Hwy, on S side of rd between 74 and 340m W of Hwy. Extends further west but not surveyed.	SWAN COASTAL	LGA	VER		9/12/2009 0:00	ACT_IND	226						N			Tetralia octandra, Patersonia babianoides.	SLOPE	SAND	YEL_BRWN	
16458	84539	1033	Tetralia australiensis	T	VU	12	A	Railway Reserve. West side of rail line. 3.8 km S along access track from Westward deviation of Shanns Rd, North Dandalup. [Adjacent to PTA owned PP Lot 50].	SWAN COASTAL	RAI	RRE		12/11/2009 0:00	ESTMT	120						N	HEALTHY			OD_SWAMP	CLAY_SND	GREY	
16459	106342	1033	Tetralia australiensis	T	VU	12	B	Lot 50 on Plan 3765 west side of rail reserve. 3.8 km S along access track from Westward deviation of Shanns Rd, North Dandalup. [PTA owned]	SWAN COASTAL	PRI			12/11/2009 0:00		0						N				OD_SWAMP	CLAY_SND	GREY	
16461	84541	1033	Tetralia australiensis	T	VU	14		410 (Lot 500) Rapids Rd Serpentine. In marri woodland in SW corner of property. [No coordinate given; estimated from description].	SWAN COASTAL	PRI			19/10/2010 0:00	ESTMT	5			5			N			Condition good. Invasion of veldt grass in understorey.	FLAT	CLA_LOAM	GREY	

FID	PopId	NameId	Taxon	Cons Status	WAR ank	PopN umbe r	SubP opCo de	Location	District	Vesting	Purpose1	Purpose2	CountDate	Method	Mat Cou nt	JuvC ount	See dCo unt	Live Total	Cou ntTy pe	Area Occu py	InFl owe r	Pop Con diti	Hab Con diti	HabNotes	Landform	SoilType	SoilColor	Drainage
16466	108105	1033	Tetragia australiensis	T	VU	17		Unnamed Shire road reserve, 4.3-5.1km S of Lakes Road, north Dandalup, on the unmade road reserve E of the Railway. Plants occur on the east of the track within the unmade road reserve.	SWAN COASTAL	LGA	VER		14/09/2012 0:00	ACT_IND	16		0		PLANTS	36			HEALTHY VRY_GOD	Habitat Condition - ranges from excellent in the south to good in the north Open woodland of <i>Corymbia calophylla</i> , <i>Nuytsia floribunda</i> , <i>Allocasuarina fraseriana</i> , over open heath of <i>Kingia australis</i> , <i>xanthorrhoea preissii</i> , <i>Pericalymma ellipticum</i> , over S	FLAT	SND_LOAM	BROWN	SEASINUN
16467	108106	1033	Tetragia australiensis	T	VU	18		Unnamed road reserve SW of North Dandalup along the rail reserve which parallels the northern end of Shanns Rd. The plants are located 3.2 km south of Lakes Rd along the rail access track on the eastern side of the railway line.	SWAN COASTAL	LGA	VER		28/09/2010 0:00	PART_CNT	2		0		CLUMPS		N		VRY_GOD	Open Heath - <i>Pericalymma ellipticum</i> , <i>Xanthorrhoea preissii</i> , <i>Lambertia multiflora</i> , <i>Hibbertia hypericoides</i> , * <i>Eragrostis curvula</i> .	FLAT	CLAY_SND	GREY	SEASINUN
17239	92652	14714	Verticordia lindleyi subsp. lindleyi	4		10		East side of the junction of Karnup and Punrack Rds, Serpentine.	SWAN COASTAL	LGA	VER	DRA	27/12/1988 0:00		0		0							FLAT	CLAY			
17262	92666	14714	Verticordia lindleyi subsp. lindleyi	4		25		Private. Lot 506, 354 Rapids Road, Serpentine. Bush Forever Site 74. South of Karnup Rd, just to the south-west of the intersection with Rapids Road. System 6 Update quadrat punr03.	SWAN COASTAL	PRI			9/11/1995 0:00		0		0					Y		Loxocarya pubescens, <i>Centrolepis aristata</i> .			BROWN	SEASINUN

APPENDIX 2

Naturemap Report

NatureMap Species Report

Created By Guest user on 02/12/2021

Current Names Only Yes
Core Datasets Only Yes
Method 'By Circle'
Centre 115° 50' 36" E, 32° 27' 42" S
Buffer 15km
Group By Conservation Status

Conservation Status	Species	Records
Non-conservation taxon	1355	16306
Other specially protected fauna	2	16
Priority 1	2	5
Priority 2	4	19
Priority 3	18	79
Priority 4	18	201
Protected under international agreement	34	1219
Rare or likely to become extinct	30	997
TOTAL	1463	18842

Name ID	Species Name	Naturalised	Conservation Code	Endemic To Query Area
Rare or likely to become extinct				
1.	24209 <i>Arctocephalus tropicalis</i> (Subantarctic fur-seal)		T	
2.	24050 <i>Balaenoptera physalus</i> (Fin Whale)		T	
3.	24162 <i>Bettongia penicillata</i> subsp. <i>ogilbyi</i> (Woylie, Brush-tailed Bettong)		T	
4.	24345 <i>Botaurus poiciloptilus</i> (Australasian Bittern)		T	
5.	1596 <i>Caladenia huegelii</i> (Grand Spider Orchid)		T	
6.	24784 <i>Calidris ferruginea</i> (Curlew Sandpiper)		T	
7.	24790 <i>Calidris tenuirostris</i> (Great Knot)		T	
8.	24731 <i>Calyptorhynchus banksii</i> subsp. <i>naso</i> (Forest Red-tailed Black Cockatoo)		T	
9.	24733 <i>Calyptorhynchus baudinii</i> (Baudin's Cockatoo, White-tailed Long-billed Black Cockatoo)		T	
10.	24734 <i>Calyptorhynchus latirostris</i> (Carnaby's Cockatoo, White-tailed Short-billed Black Cockatoo)		T	
11.	48400 <i>Calyptorhynchus</i> sp. (white-tailed black cockatoo)		T	
12.	25335 <i>Caretta caretta</i> (Loggerhead Turtle)		T	
13.	25575 <i>Charadrius leschenaultii</i> (Greater Sand Plover)		T	
14.	24372 <i>Charadrius leschenaultii</i> subsp. <i>leschenaultii</i> (Greater Sand Plover (Mongolian))		T	
15.	25576 <i>Charadrius mongolus</i> (Lesser Sand Plover)		T	
16.	24092 <i>Dasyurus geoffroii</i> (Chuditch, Western Quoll)		T	
17.	10796 <i>Diuris drummondii</i> (Tall Donkey Orchid)		T	
18.	12938 <i>Diuris micrantha</i>		T	
19.	1639 <i>Drakaea elastica</i> (Glossy-leaved Hammer Orchid)		T	
20.	24146 <i>Myrmecobius fasciatus</i> (Numbat, Walpurti)		T	
21.	24798 <i>Numenius madagascariensis</i> (Eastern Curlew)		T	
22.	24462 <i>Phoebastria fusca</i> (Sooty Albatross)		T	
23.	24145 <i>Setonix brachyurus</i> (Quokka)		T	
24.	18590 <i>Synaphea</i> sp. Fairbridge Farm (D. Papenfus 696)		T	
25.	19055 <i>Synaphea</i> sp. Pinjarra (R. Davis 6578)		T	
26.	30751 <i>Synaphea</i> sp. Pinjarra Plain (A.S. George 17182)		T	
27.	28354 <i>Synaphea</i> sp. Serpentine (G.R. Brand 103)		T	
28.	16749 <i>Synaphea stenoloba</i>		T	
29.	1033 <i>Tetraria australiensis</i>		T	
30.	34113 <i>Westralunio carteri</i> (Carter's Freshwater Mussel)		T	
Protected under international agreement				
31.	41323 <i>Actitis hypoleucos</i> (Common Sandpiper)		IA	
32.	24334 <i>Apus pacificus</i> subsp. <i>pacificus</i> (Fork-tailed Swift, Pacific Swift)		IA	
33.	48573 <i>Ardenna pacifica</i> (Wedge-tailed Shearwater)		IA	
34.	25736 <i>Arenaria interpres</i> (Ruddy Turnstone)		IA	
35.	24779 <i>Calidris acuminata</i> (Sharp-tailed Sandpiper)		IA	
36.	24780 <i>Calidris alba</i> (Sanderling)		IA	

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
37.	25738 <i>Calidris canutus</i> (Red Knot, knot)		IA	
38.	24786 <i>Calidris melanotos</i> (Pectoral Sandpiper)		IA	
39.	24788 <i>Calidris ruficollis</i> (Red-necked Stint)		IA	
40.	24789 <i>Calidris subminuta</i> (Long-toed Stint)		IA	
41.	25574 <i>Charadrius dubius</i> (Little Ringed Plover)		IA	
42.	41332 <i>Chlidonias leucopterus</i> (White-winged Black Tern, white-winged tern)		IA	
43.	24481 <i>Glareola maldivarum</i> (Oriental Pratincole)		IA	
44.	48587 <i>Hydroprogne caspia</i> (Caspian Tern)		IA	
45.	25739 <i>Limicola falcinellus</i> (Broad-billed Sandpiper)		IA	
46.	30932 <i>Limosa lapponica</i> (Bar-tailed Godwit)		IA	
47.	25741 <i>Limosa limosa</i> (Black-tailed Godwit)		IA	
48.	24690 <i>Macronectes giganteus</i> (Southern Giant Petrel)		IA	
49.	24799 <i>Numenius minutus</i> (Little Curlew, Little Whimbrel)		IA	
50.	25742 <i>Numenius phaeopus</i> (Whimbrel)		IA	
51.	41347 <i>Onychoprion anaethetus</i> (Bridled Tern)		IA	
52.	48591 <i>Pandion cristatus</i> (Osprey, Eastern Osprey)		IA	
53.	24802 <i>Philomachus pugnax</i> (Ruff, reeve)		IA	
54.	24843 <i>Plegadis falcinellus</i> (Glossy Ibis)		IA	
55.	24382 <i>Pluvialis fulva</i> (Pacific Golden Plover)		IA	
56.	24383 <i>Pluvialis squatarola</i> (Grey Plover)		IA	
57.	24716 <i>Puffinus pacificus</i> (Wedge-tailed Shearwater)		IA	
58.	24517 <i>Stercorarius parasiticus</i> (Arctic jaeger, Arctic Skua)		IA	
59.	25642 <i>Sterna hirundo</i> (Common Tern)		IA	
60.	48597 <i>Thalasseus bergii</i> (Crested Tern)		IA	
61.	24806 <i>Tringa glareola</i> (Wood Sandpiper)		IA	
62.	24808 <i>Tringa nebularia</i> (Common Greenshank, greenshank)		IA	
63.	24809 <i>Tringa stagnatilis</i> (Marsh Sandpiper, little greenshank)		IA	
64.	41351 <i>Xenus cinereus</i> (Terek Sandpiper)		IA	
Other specially protected fauna				
65.	25624 <i>Falco peregrinus</i> (Peregrine Falcon)		S	
66.	48070 <i>Phascogale tapoatafa</i> subsp. <i>wambenger</i> (South-western Brush-tailed Phascogale, Wambenger)		S	
Priority 1				
67.	14932 <i>Acacia lasiocarpa</i> var. <i>bracteolata</i> long peduncle variant (G.J. Keighery 5026)		P1	
68.	20666 <i>Stachystemon</i> sp. <i>Keysbrook</i> (R. Archer 17/11/99)		P1	
Priority 2				
69.	3237 <i>Acacia benthamii</i>		P2	
70.	3006 <i>Cardamine paucijuga</i>		P2	
71.	13452 <i>Grevillea manglesii</i> subsp. <i>ornithopoda</i>		P2	
72.	19272 <i>Johnsonia pubescens</i> subsp. <i>cygnorum</i>		P2	
Priority 3				
73.	45013 <i>Amanita drummondii</i>		P3	
74.	34236 <i>Beyeria cinerea</i> subsp. <i>cinerea</i>		P3	
75.	11612 <i>Boronia capitata</i> subsp. <i>gracilis</i>		P3	
76.	44226 <i>Calandrinia oraria</i>		P3	
77.	19338 <i>Chamaescilla gibsonii</i>		P3	
78.	16245 <i>Cyathochaeta teretifolia</i>		P3	
79.	3863 <i>Dillwynia dillwynioides</i>		P3	
80.	41801 <i>Eryngium pinnatifidum</i> subsp. <i>Palustre</i> (G.J. Keighery 13459)		P3	
81.	34030 <i>Geotria australis</i> (Pouched Lamprey)		P3	
82.	48935 <i>Idiosoma sigillatum</i> (Swan Coastal Plain shield-backed trapdoor spider)		P3	
83.	20462 <i>Jacksonia gracillima</i>		P3	
84.	5038 <i>Lasiopetalum membranaceum</i>		P3	
85.	25147 <i>Lerista lineata</i> (Perth Slider, Lined Skink)		P3	
86.	25249 <i>Neelaps calonotos</i> (Black-striped Snake, black-striped burrowing snake)		P3	
87.	5237 <i>Pimelea calcicola</i>		P3	
88.	980 <i>Schoenus capillifolius</i>		P3	
89.	20348 <i>Sphaerolobium calcicola</i>		P3	
90.	48297 <i>Styphelia filifolia</i>		P3	
Priority 4				
91.	14131 <i>Acacia oncinophylla</i> subsp. <i>patulifolia</i>		P4	
92.	141 <i>Aponogeton hexatepalus</i> (Stalked Water Ribbons)		P4	
93.	4444 <i>Boronia tenuis</i> (Blue Boronia)		P4	
94.	13862 <i>Caladenia speciosa</i>		P4	
95.	11333 <i>Calothamnus graniticus</i> subsp. <i>leptophyllus</i>		P4	
96.	11657 <i>Conostylis pauciflora</i> subsp. <i>pauciflora</i>		P4	
97.	13512 <i>Eucalyptus rudis</i> subsp. <i>cratyantha</i>		P4	
98.	24215 <i>Hydromys chrysogaster</i> (Water-rat, Rakali)		P4	

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99.	48588 <i>Isoodon fusciventer</i> (Quenda, southwestern brown bandicoot)		P4	
100.	4027 <i>Jacksonia sericea</i> (Waldjumi)		P4	
101.	36200 <i>Ornduffia submersa</i>		P4	
102.	24328 <i>Oxyura australis</i> (Blue-billed Duck)		P4	
103.	6573 <i>Parsonia diaphanophleba</i>		P4	
104.	2435 <i>Rumex drummondii</i>		P4	
105.	7756 <i>Stylidium longitubum</i> (Jumping Jacks)		P4	
106.	33992 <i>Synemon gratiosa</i> (Graceful Sunmoth)		P4	
107.	24803 <i>Tringa brevipes</i> (Grey-tailed Tattler)		P4	
108.	14714 <i>Verticordia lindleyi</i> subsp. <i>lindleyi</i>		P4	

Non-conservation taxon

109.	??			
110.	15429 <i>Acacia alata</i> var. <i>alata</i>			
111.	15466 <i>Acacia applanata</i>			
112.	3262 <i>Acacia cochlearis</i> (Rigid Wattle)			
113.	3282 <i>Acacia cyclops</i> (Coastal Wattle)			
114.	16975 <i>Acacia decurrens</i>	Y		
115.	3323 <i>Acacia ericifolia</i>			
116.	3374 <i>Acacia huegelii</i>			
117.	18217 <i>Acacia iteaphylla</i>	Y		
118.	3409 <i>Acacia lasiocarpa</i> (Panjang)			
119.	11611 <i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>			
120.	3464 <i>Acacia obovata</i>			
121.	17860 <i>Acacia podalyriifolia</i>	Y		
122.	3502 <i>Acacia pulchella</i> (Prickly Moses)			
123.	15481 <i>Acacia pulchella</i> var. <i>glaberrima</i>			
124.	15483 <i>Acacia pulchella</i> var. <i>pulchella</i>			
125.	3525 <i>Acacia rostellifera</i> (Summer-scented Wattle)			
126.	3527 <i>Acacia saligna</i> (Orange Wattle, Kudjong)			
127.	30033 <i>Acacia saligna</i> subsp. <i>lindleyi</i>			
128.	30032 <i>Acacia saligna</i> subsp. <i>saligna</i>			
129.	3541 <i>Acacia sessilis</i>			
130.	3557 <i>Acacia stenoptera</i> (Narrow Winged Wattle)			
131.	3584 <i>Acacia truncata</i>			
132.	3591 <i>Acacia urophylla</i>			
133.	3602 <i>Acacia willdenowiana</i> (Grass Wattle)			
134.	<i>Acanthistius serratus</i>			
135.	24260 <i>Acanthiza apicalis</i> (Broad-tailed Thornbill, Inland Thornbill)			
136.	24261 <i>Acanthiza chrysorrhoa</i> (Yellow-rumped Thornbill)			
137.	24262 <i>Acanthiza inornata</i> (Western Thornbill)			
138.	1208 <i>Acanthocarpus preissii</i>			
139.	24560 <i>Acanthorhynchus superciliosus</i> (Western Spinebill)			
140.	25535 <i>Accipiter cirrocephalus</i> (Collared Sparrowhawk)			
141.	25536 <i>Accipiter fasciatus</i> (Brown Goshawk)			
142.	<i>Acentrogobius bifrenatus</i>			
143.	13146 <i>Acetabularia peniculus</i>			
144.	<i>Achoerodus gouldii</i>			
145.	42368 <i>Acritoscincus trilineatus</i> (Western Three-lined Skink)			
146.	25755 <i>Acrocephalus australis</i> (Australian Reed Warbler)			
147.	6295 <i>Acrotriche cordata</i> (Coast Ground Berry)			
148.	6203 <i>Actinotus glomeratus</i>			
149.	26449 <i>Adelophycus corneus</i>			
150.	11837 <i>Adenanthos cygnorum</i> subsp. <i>cygnorum</i> (Common Woollybush)			
151.	1790 <i>Adenanthos meisneri</i>			
152.	1791 <i>Adenanthos obovatus</i> (Basket Flower)			
153.	4582 <i>Adriana quadripartita</i> (Bitter Bush)			
154.	<i>Afurcagobius suppositus</i>			
155.	17202 <i>Agonis flexuosa</i> var. <i>flexuosa</i>			
156.	23474 <i>Agrostocrinum hirsutum</i>			
157.	184 <i>Aira caryophyllea</i> (Silvery Hairgrass)	Y		
158.	185 <i>Aira cupaniana</i> (Silvery Hairgrass)	Y		
159.	1728 <i>Allocasuarina fraseriana</i> (Sheoak, Kondil)			
160.	1732 <i>Allocasuarina humilis</i> (Dwarf Sheoak)			
161.	2652 <i>Alternanthera nodiflora</i> (Common Joyweed)			
162.	48620 <i>Althenia preissii</i>			
163.	6565 <i>Alyxia buxifolia</i> (Dysentery Bush)			
164.	48320 <i>Amanita eucalypti</i>			
165.	35909 <i>Amansia pinnatifida</i>			
166.	2656 <i>Amaranthus caudatus</i> (Love Lies Bleeding)			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
167.	1489 <i>Amaryllis belladonna</i> (Belladonna Lily)	Y		
168.	35159 <i>Ammophila arenaria</i> subsp. <i>arenaria</i>	Y		
169.	13101 <i>Amperea simulans</i>			
170.	198 <i>Amphipogon laguroides</i>			
171.	20184 <i>Amphipogon laguroides</i> subsp. <i>laguroides</i>			
172.	200 <i>Amphipogon turbinatus</i>			
173.	13267 <i>Amyema linophylla</i> subsp. <i>linophylla</i>			
174.	2380 <i>Amyema miquelii</i> (Stalked Mistletoe)			
175.	<i>Aname mainae</i>			
176.	<i>Aname tepperi</i>			
177.	24310 <i>Anas castanea</i> (Chestnut Teal)			
178.	24312 <i>Anas gracilis</i> (Grey Teal)			
179.	24313 <i>Anas platyrhynchos</i> (Mallard)			
180.	<i>Anas platyrhynchos</i> subsp. <i>domesticus</i>			
181.	24315 <i>Anas rhynchotis</i> (Australasian Shoveler)			
182.	24316 <i>Anas superciliosa</i> (Pacific Black Duck)			
183.	7833 <i>Angianthus preissianus</i>			
184.	47414 <i>Anhinga novaehollandiae</i> (Australasian Darter)			
185.	1409 <i>Anigozanthos humilis</i> (Catspaw)			
186.	11434 <i>Anigozanthos humilis</i> subsp. <i>humilis</i>			
187.	1411 <i>Anigozanthos manglesii</i> (Mangles Kangaroo Paw, Kurulbrang)			
188.	11261 <i>Anigozanthos manglesii</i> subsp. <i>manglesii</i>			
189.	11566 <i>Anigozanthos viridis</i> subsp. <i>viridis</i>			
190.	44629 <i>Anilios australis</i>			
191.	<i>Anoplocapros amygdaloides?</i>			
192.	<i>Anoplocapros lenticularis</i>			
193.	24088 <i>Antechinus flavipes</i> subsp. <i>leucogaster</i> (Yellow-footed Antechinus, Mardo)			
194.	11725 <i>Anthocercis ilicifolia</i> subsp. <i>ilicifolia</i>			
195.	6949 <i>Anthocercis littorea</i> (Yellow Tailflower)			
196.	24561 <i>Anthochaera carunculata</i> (Red Wattlebird)			
197.	24562 <i>Anthochaera lunulata</i> (Western Little Wattlebird)			
198.	12724 <i>Anthotium junciforme</i>			
199.	202 <i>Anthoxanthum odoratum</i> (Sweet Vernal Grass)	Y		
200.	25670 <i>Anthus australis</i> (Australian Pipit)			
201.	3688 <i>Aotus gracillima</i>			
202.	3692 <i>Aotus procumbens</i>			
203.	1117 <i>Aphelia cyperoides</i>			
204.	6210 <i>Apium annuum</i>			
205.	6211 <i>Apium prostratum</i> (Sea Celery)			
206.	12040 <i>Apium prostratum</i> subsp. <i>prostratum</i> var. <i>prostratum</i> (Sea Celery)			
207.	24990 <i>Aprasia pulchella</i> (Granite Worm-lizard)			
208.	24991 <i>Aprasia repens</i> (Sand-plain Worm-lizard)			
209.	24285 <i>Aquila audax</i> (Wedge-tailed Eagle)			
210.	<i>Arachnura higginsi</i>			
211.	7838 <i>Arctotheca calendula</i> (Cape Weed, African Marigold)	Y		
212.	7839 <i>Arctotheca populifolia</i> (Dune Arctotheca, Beach Pumpkin, Coast Capeweed, Beach Daisy)	Y		
213.	7840 <i>Arctotis stoechadifolia</i> (White Arctotis, Silver Arctotis)	Y		
214.	24337 <i>Ardea garzetta</i> subsp. <i>nigripes</i> (Little Egret)			
215.	25558 <i>Ardea ibis</i> (Cattle Egret)			
216.	41324 <i>Ardea modesta</i> (great egret, white egret)			
217.	24340 <i>Ardea novaehollandiae</i> (White-faced Heron)			
218.	24341 <i>Ardea pacifica</i> (White-necked Heron)			
219.	24610 <i>Ardeotis australis</i> (Australian Bustard)			
220.	26483 <i>Areschougia congesta</i>			
221.	<i>Argiope trifasciata</i>			
222.	222 <i>Aristida ramosa</i> (Purple Wiregrass)	Y		
223.	<i>Armillaria luteobubalina</i>			
224.	1264 <i>Arnocrinum preissii</i>			
225.	<i>Arripis truttacea</i>			
226.	25566 <i>Artamus cinereus</i> (Black-faced Woodswallow)			
227.	24353 <i>Artamus cyanopterus</i> (Dusky Woodswallow)			
228.	6580 <i>Asclepias curassavica</i> (Redhead Cottonbush)	Y		
229.	8779 <i>Asparagus asparagoides</i> (Bridal Creeper)	Y		
230.	1364 <i>Asphodelus fistulosus</i> (Onion Weed)	Y		
231.	20350 <i>Astartea affinis</i> (West-coast Astartea)			
232.	20249 <i>Astartea leptophylla</i> (River-bank Astartea)			
233.	20283 <i>Astartea scoparia</i> (Common Astartea)			
234.	7851 <i>Asteridea pulverulenta</i> (Common Bristle Daisy)			

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235.	6323 <i>Astroloma ciliatum</i> (Candle Cranberry)			
236.	6334 <i>Astroloma pallidum</i> (Kick Bush)			
237.	<i>Atherinosoma wallacei</i>			
238.	2462 <i>Atriplex hypoleuca</i>			
239.	2463 <i>Atriplex isatidea</i> (Coast Saltbush)			
240.	2471 <i>Atriplex prostrata</i> (Hastate Orache)	Y		
241.	2480 <i>Atriplex suberecta</i>			
242.	<i>Aulohalaclurus labiosus</i>			
243.	38762 <i>Auriscalpium barbatum</i>			
244.	<i>Austracantha minax</i>			
245.	47713 <i>Austronomus australis</i> (White-striped Free-tailed Bat)			
246.	17234 <i>Austrostipa compressa</i>			
247.	17239 <i>Austrostipa exilis</i>			
248.	17240 <i>Austrostipa flavescens</i>			
249.	233 <i>Avena barbata</i> (Bearded Oat)	Y		
250.	234 <i>Avena fatua</i> (Wild Oat)	Y		
251.	24318 <i>Aythya australis</i> (Hardhead)			
252.	18279 <i>Babiana angustifolia</i>	Y		
253.	36441 <i>Babingtonia camphorosmae</i> (Camphor Myrtle)			
254.	<i>Backobourkia heroine</i>			
255.	1800 <i>Banksia attenuata</i> (Slender Banksia, Piara)			
256.	32580 <i>Banksia dallanneyi</i> subsp. <i>dallanneyi</i> var. <i>dallanneyi</i>			
257.	1819 <i>Banksia grandis</i> (Bull Banksia, Pulgarta)			
258.	1822 <i>Banksia ilicifolia</i> (Holly-leaved Banksia)			
259.	1830 <i>Banksia littoralis</i> (Swamp Banksia, Pungura)			
260.	1834 <i>Banksia menziesii</i> (Firewood Banksia)			
261.	32202 <i>Banksia nivea</i> (Honeypot Dryandra, Pudjarn)			
262.	32203 <i>Banksia nivea</i> subsp. <i>nivea</i>			
263.	32080 <i>Banksia sessilis</i> var. <i>sessilis</i>			
264.	1852 <i>Banksia telmatiaea</i> (Swamp Fox Banksia)			
265.	32054 <i>Banksia undata</i> var. <i>undata</i>			
266.	<i>Barnardius zonarius</i>			
267.	<i>Batrachomoeus rubricephalus</i>			
268.	741 <i>Baumea articulata</i> (Jointed Rush)			
269.	743 <i>Baumea juncea</i> (Bare Twigrush)			
270.	744 <i>Baumea laxa</i>			
271.	748 <i>Baumea vaginalis</i> (Sheath Twigrush)			
272.	5387 <i>Beaufortia macrostemon</i> (Darling Range Beaufortia)			
273.	7046 <i>Bellardia trixago</i> (Bellardia)	Y		
274.	48868 <i>Bellardia viscosa</i>	Y		
275.	34237 <i>Beyeria cinerea</i> subsp. <i>borealis</i>			
276.	25788 <i>Billardiera fraseri</i> (Elegant Pronaya)			
277.	24319 <i>Biziura lobata</i> (Musk Duck)			
278.	1417 <i>Blancoa canescens</i> (Winter Bell)			
279.	749 <i>Bolboschoenus caldwellii</i> (Marsh Club-rush)			
280.	<i>Boletus</i> sp.			
281.	11503 <i>Boronia crenulata</i> subsp. <i>crenulata</i> var. <i>crenulata</i>			
282.	11381 <i>Boronia ramosa</i> subsp. <i>anethifolia</i>			
283.	48782 <i>Bossiaea angustifolia</i>			
284.	3710 <i>Bossiaea eriocarpa</i> (Common Brown Pea)			
285.	<i>Bostockia porosa</i>			
286.	6341 <i>Brachyloma preissii</i> (Globe Heath)			
287.	8661 <i>Brachypodium distachyon</i> (False Brome)	Y		
288.	7878 <i>Brachyscome iberidifolia</i>			
289.	42381 <i>Brachyurophis semifasciatus</i> (Southern Shovel-nosed Snake)			
290.	244 <i>Briza maxima</i> (Blowfly Grass)	Y		
291.	245 <i>Briza minor</i> (Shivery Grass)	Y		
292.	247 <i>Bromus arenarius</i> (Sand Brome)			
293.	249 <i>Bromus diandrus</i> (Great Brome)	Y		
294.	250 <i>Bromus hordeaceus</i> (Soft Brome)	Y		
295.	1383 <i>Burchardia bairdiae</i>			
296.	12770 <i>Burchardia congesta</i>			
297.	1385 <i>Burchardia multiflora</i> (Dwarf Burchardia)			
298.	25714 <i>Cacatua pastinator</i> (Western Long-billed Corella)			
299.	25715 <i>Cacatua roseicapilla</i> (Galah)			
300.	25716 <i>Cacatua sanguinea</i> (Little Corella)			
301.	24729 <i>Cacatua tenuirostris</i> (Eastern Long-billed Corella)	Y		
302.	25598 <i>Cacomantis flabelliformis</i> (Fan-tailed Cuckoo)			
303.	42307 <i>Cacomantis pallidus</i> (Pallid Cuckoo)			
304.	<i>Caenidae</i> sp.			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
305.	1276 <i>Caesia micrantha</i> (Pale Grass Lily)			
306.	1277 <i>Caesia occidentalis</i>			
307.	3002 <i>Cakile maritima</i> (Sea Rocket)	Y		
308.	15330 <i>Caladenia arenicola</i>			
309.	1586 <i>Caladenia discoidea</i> (Dancing Orchid)			
310.	1590 <i>Caladenia ferruginea</i> (Rusty Spider Orchid)			
311.	1592 <i>Caladenia flava</i> (Cowslip Orchid)			
312.	15348 <i>Caladenia flava</i> subsp. <i>flava</i>			
313.	1599 <i>Caladenia latifolia</i> (Pink Fairy Orchid)			
314.	15361 <i>Caladenia longicauda</i> subsp. <i>calcigena</i>			
315.	1605 <i>Caladenia marginata</i> (White Fairy Orchid)			
316.	17589 <i>Caladenia occidentalis</i>			
317.	15503 <i>Caladenia paludosa</i>			
318.	15377 <i>Caladenia reptans</i> subsp. <i>reptans</i>			
319.	18019 <i>Caladenia vulgata</i>			
320.	2846 <i>Calandrinia calypttrata</i> (Pink Purslane)			
321.	2848 <i>Calandrinia corrigioloides</i> (Strap Purslane)			
322.	2854 <i>Calandrinia granulifera</i> (Pygmy Purslane)			
323.	2856 <i>Calandrinia liniflora</i> (Parakeelya)			
324.	16365 <i>Calandrinia</i> sp. <i>Kenwick</i> (G.J. Keighery 10905)			
325.	40827 <i>Calandrinia tholiformis</i>			
326.	19309 <i>Calectasia narragara</i>			
327.	36520 <i>Callitris acuminata</i> (Dwarf Cypress)			
328.	8466 <i>Callitris columellaris</i> (White Cypress Pine)			
329.	36600 <i>Callitris pyramidalis</i> (Swamp Cypress)			
330.	26534 <i>Callophycus dorsifer</i>			
331.	26535 <i>Callophycus harveyanus</i>			
332.	26536 <i>Callophycus oppositifolius</i>			
333.	5415 <i>Calothamnus lateralis</i>			
334.	25717 <i>Calyptorhynchus banksii</i> (Red-tailed Black-Cockatoo)			
335.	<i>Calyptorhynchus latirostris</i> ?			Y
336.	5439 <i>Calytrix angulata</i> (Yellow Starflower)			
337.	5458 <i>Calytrix flavescens</i> (Summer Starflower)			
338.	5460 <i>Calytrix fraseri</i> (Pink Summer Calytrix)			
339.	<i>Candelariella</i> sp.			
340.	48920 <i>Canis familiaris</i> (Dog, Dingo)	Y		
341.	<i>Carassius auratus</i>			
342.	3005 <i>Cardamine hirsuta</i> (Common Bittercress)	Y		
343.	25625 <i>Carduelis carduelis</i> (Goldfinch, European Goldfinch)	Y		
344.	43241 <i>Carex thecata</i>			
345.	2795 <i>Carpobrotus edulis</i> (Hottentot Fig)	Y		
346.	2798 <i>Carpobrotus virescens</i> (Coastal Pigface, Kolboko, Bain)			
347.	26546 <i>Carpopeltis elata</i>			
348.	1162 <i>Cartonema phylloides</i>			
349.	2951 <i>Cassytha flava</i> (Dodder Laurel)			
350.	2952 <i>Cassytha glabella</i> (Tangled Dodder Laurel)			
351.	2957 <i>Cassytha racemosa</i> (Dodder Laurel)			
352.	11799 <i>Cassytha racemosa</i> forma <i>racemosa</i>			
353.	1742 <i>Casuarina obesa</i> (Swamp Sheoak, Kuli)			
354.	26586 <i>Caulocystis uvifera</i>			
355.	41564 <i>Cenchrus clandestinus</i> (Kikuyu Grass)	Y		
356.	259 <i>Cenchrus echinatus</i> (Burrgrass)	Y		
357.	7916 <i>Centaurea melitensis</i> (Maltese Cockspur, Malta Thistle)	Y		
358.	6539 <i>Centaureum erythraea</i> (Common Centaury)	Y		
359.	6542 <i>Centaureum tenuiflorum</i>	Y		
360.	6214 <i>Centella asiatica</i>			
361.	7366 <i>Centranthus macrosiphon</i>	Y		
362.	35322 <i>Centranthus ruber</i> subsp. <i>ruber</i>	Y		
363.	<i>Centroberyx gerrardi</i>			
364.	1120 <i>Centrolepis alepyroides</i>			
365.	1121 <i>Centrolepis aristata</i> (Pointed Centrolepis)			
366.	1125 <i>Centrolepis drummondiana</i>			
367.	1129 <i>Centrolepis glabra</i> (Smooth Centrolepis)			
368.	2889 <i>Cerastium glomeratum</i> (Mouse Ear Chickweed)	Y		
369.	24086 <i>Cercartetus concinnus</i> (Western Pygmy-possum, Mundarda)			
370.	17685 <i>Chaetanthus aristatus</i>			
371.	<i>Chaetodermis penicilligera</i>			
372.	26607 <i>Chaetomorpha aerea</i>			
373.	24186 <i>Chalinolobus gouldii</i> (Gould's Wattled Bat)			
374.	18156 <i>Chamaecytisus palmensis</i> (Tagasaste)	Y		

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375.	1280 <i>Chamaescilla corymbosa</i> (Blue Squill)			
376.	11299 <i>Chamaescilla corymbosa</i> var. <i>corymbosa</i>			
377.	24377 <i>Charadrius ruficapillus</i> (Red-capped Plover)			
378.	26622 <i>Chauviniella coriifolia</i>			
379.	<i>Cheilodactylus gibbosus</i>			
380.	<i>Chelidonichthys kumu</i>			
381.	43380 <i>Chelodina colliei</i> (South-western Snake-necked Turtle)			
382.	24321 <i>Chenonetta jubata</i> (Australian Wood Duck, Wood Duck)			
383.	2490 <i>Chenopodium glaucum</i> (Glaucous Goosefoot)	Y		
384.	2494 <i>Chenopodium murale</i> (Nettle-leaf Goosefoot)	Y		
385.	33939 <i>Cherax cainii</i> (Marron)			
386.	<i>Cherax destructor</i>			
387.	<i>Cherax quinquecarinatus</i>			
388.	267 <i>Chloris gayana</i> (Rhodes Grass)	Y		
389.	763 <i>Chorizandra enodis</i> (Black Bristlerush)			
390.	3753 <i>Chorizema dicksonii</i> (Yellow-eyed Flame Pea)			
391.	24980 <i>Christinus marmoratus</i> (Marbled Gecko)			
392.	<i>Chroicocephalus novaehollandiae</i>			
393.	24431 <i>Chrysococcyx basalisi</i> (Horsfield's Bronze Cuckoo)			
394.	25601 <i>Chrysococcyx lucidus</i> (Shining Bronze Cuckoo)			
395.	41264 <i>Chrysothrix xanthina</i>			
396.	6543 <i>Cicendia filiformis</i> (Slender Cicendia)	Y		
397.	24288 <i>Circus approximans</i> (Swamp Harrier)			
398.	24289 <i>Circus assimilis</i> (Spotted Harrier)			
399.	<i>Cirrhimuraena calamus</i>			
400.	48838 <i>Citrullus amarus</i>	Y		
401.	27688 <i>Cladonia ochrochlora</i>			
402.	26659 <i>Cladophora valonioides</i>			
403.	24774 <i>Cladorhynchus leucocephalus</i> (Banded Stilt)			
404.	26663 <i>Cladurus elatus</i>			
405.	10804 <i>Clematis linearifolia</i>			
406.	2929 <i>Clematis pubescens</i> (Common Clematis)			
407.	44593 <i>Coleonema pulchellum</i>	Y		
408.	25675 <i>Colluricincla harmonica</i> (Grey Shrike-thrush)			
409.	24613 <i>Colluricincla harmonica</i> subsp. <i>rufiventris</i> (Grey Shrike-thrush)			
410.	24399 <i>Columba livia</i> (Domestic Pigeon)	Y		
411.	4550 <i>Comesperma calymega</i> (Blue-spike Milkwort)			
412.	4552 <i>Comesperma confertum</i>			
413.	4555 <i>Comesperma integerrimum</i>			
414.	4564 <i>Comesperma virgatum</i> (Milkwort)			
415.	<i>Conger wilsoni</i>			
416.	6217 <i>Conium maculatum</i> (Hemlock)	Y		
417.	16853 <i>Conospermum capitatum</i> subsp. <i>glabratum</i>			
418.	1882 <i>Conospermum stoechadis</i> (Common Smokebush)			
419.	15611 <i>Conospermum stoechadis</i> subsp. <i>stoechadis</i> (Common Smokebush)			
420.	1885 <i>Conospermum triplinervium</i> (Tree Smokebush)			
421.	6347 <i>Conostephium minus</i> (Pink-tipped Pearl flower)			
422.	6348 <i>Conostephium pendulum</i> (Pearl Flower)			
423.	6349 <i>Conostephium preissii</i>			
424.	1418 <i>Conostylis aculeata</i> (Prickly Conostylis)			
425.	11826 <i>Conostylis aculeata</i> subsp. <i>aculeata</i>			
426.	1427 <i>Conostylis candicans</i> (Grey Cottonhead)			
427.	12027 <i>Conostylis candicans</i> subsp. <i>calcicola</i>			
428.	1436 <i>Conostylis juncea</i>			
429.	1443 <i>Conostylis pauciflora</i> (Dawesville Conostylis)			
430.	1454 <i>Conostylis setigera</i> (Bristly Cottonhead)			
431.	1455 <i>Conostylis setosa</i> (White Cottonhead)			
432.	<i>Contusus brevicaudus</i>			
433.	7939 <i>Conyza bonariensis</i> (Flaxleaf Fleabane)	Y		
434.	7941 <i>Conyza parva</i>	Y		
435.	20074 <i>Conyza sumatrensis</i>	Y		
436.	25568 <i>Coracina novaehollandiae</i> (Black-faced Cuckoo-shrike)			
437.	<i>Coris aygula</i>			
438.	<i>Cormocephalus turneri</i>			
439.	2891 <i>Corrigiola litoralis</i> (Strapwort)	Y		
440.	277 <i>Cortaderia selloana</i> (Pampas Grass)	Y		
441.	48259 <i>Cortaderia selloana</i> subsp. <i>selloana</i>	Y		
442.	25592 <i>Corvus coronoides</i> (Australian Raven)			
443.	24417 <i>Corvus coronoides</i> subsp. <i>perplexus</i> (Australian Raven)			
444.	17104 <i>Corymbia calophylla</i> (Marri)			

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445.	17105 <i>Corymbia haematoxylon</i> (Mountain Marri)			
446.	1285 <i>Corynotheca micrantha</i> (Sand Lily)			
447.	11883 <i>Corynotheca micrantha</i> var. <i>elongata</i>			
448.	11283 <i>Corynotheca micrantha</i> var. <i>micrantha</i>			
449.	7943 <i>Cotula australis</i> (Common Cotula)			
450.	7945 <i>Cotula coronopifolia</i> (Waterbuttons)	Y		
451.	7946 <i>Cotula cotuloides</i> (Smooth Cotula)			
452.	7947 <i>Cotula turbinata</i> (Funnel Weed)	Y		
453.	24671 <i>Coturnix pectoralis</i> (Stubble Quail)			
454.	24420 <i>Cracticus nigrogularis</i> (Pied Butcherbird)			
455.	25595 <i>Cracticus tibicen</i> (Australian Magpie)			
456.	24422 <i>Cracticus tibicen</i> subsp. <i>dorsalis</i> (White-backed Magpie)			
457.	25596 <i>Cracticus torquatus</i> (Grey Butcherbird)			
458.	<i>Crapatalus</i> sp.			Y
459.	42009 <i>Craspedia</i> sp. Yalgorup National Park (G.J. Keighery 14449)			
460.	3137 <i>Crassula colorata</i> (Dense Stonecrop)			
461.	11709 <i>Crassula colorata</i> var. <i>acuminata</i>			
462.	11563 <i>Crassula colorata</i> var. <i>colorata</i>			
463.	3140 <i>Crassula glomerata</i>	Y		
464.	3142 <i>Crassula natans</i>	Y		
465.	15706 <i>Crassula natans</i> var. <i>minus</i>	Y		
466.	25398 <i>Crinia georgiana</i> (Quacking Frog)			
467.	25399 <i>Crinia glauerti</i> (Clicking Frog)			
468.	25400 <i>Crinia insignifera</i> (Squelching Froglet)			
469.	25401 <i>Crinia pseudinsignifera</i> (Bleating Froglet)			
470.	<i>Cristiceps aurantiacus</i>			
471.	<i>Cristiceps australis</i>			
472.	<i>Cristiceps</i> sp.			
473.	4802 <i>Cryptandra mutila</i>			
474.	30893 <i>Cryptoblepharus buchananii</i>			
475.	30899 <i>Ctenophorus adelaidensis</i> (Southern Heath Dragon, Western Heath Dragon)			
476.	25027 <i>Ctenotus australis</i>			
477.	25039 <i>Ctenotus fallens</i>			
478.	48865 <i>Cucumis myriocarpus</i> subsp. <i>myriocarpus</i>	Y		
479.	11021 <i>Cuscuta planiflora</i>	Y		
480.	15404 <i>Cyanicula sericea</i>			
481.	768 <i>Cyathochaeta avenacea</i>			
482.	<i>Cyclosa trilobata</i>			
483.	40660 <i>Cycnogeton huegelii</i>			
484.	40661 <i>Cycnogeton lineare</i>			
485.	24322 <i>Cygnus atratus</i> (Black Swan)			
486.	19625 <i>Cymbalaria muralis</i> subsp. <i>muralis</i>	Y		
487.	283 <i>Cynodon dactylon</i> (Couch)	Y		
488.	285 <i>Cynosurus echinatus</i> (Rough Dogstail)	Y		
489.	783 <i>Cyperus congestus</i> (Dense Flat-sedge)	Y		
490.	806 <i>Cyperus polystachyos</i> (Bunchy Sedge)			
491.	815 <i>Cyperus tenellus</i> (Tiny Flatsedge)	Y		
492.	<i>Cypselurus</i> sp.			
493.	10916 <i>Cyrtostylis huegelii</i>			
494.	26720 <i>Cystophora grevillei</i>			
495.	26724 <i>Cystophora pectinata</i>			
496.	17692 <i>Cytogonidium leptocarpoides</i>			
497.	30901 <i>Dacelo novaeguineae</i> (Laughing Kookaburra)	Y		
498.	287 <i>Dactylis glomerata</i> (Cocksfoot)	Y		
499.	7420 <i>Dampiera alata</i> (Winged-stem Dampiera)			
500.	7454 <i>Dampiera linearis</i> (Common Dampiera)			
501.	7484 <i>Dampiera trigona</i> (Angled-stem Dampiera)			
502.	25673 <i>Daphoenositta chrysoptera</i> (Varied Sittella)			
503.	24606 <i>Daphoenositta chrysoptera</i> subsp. <i>pileata</i> (Varied Sittella, Black-capped Sittella)			
504.	5508 <i>Darwinia citriodora</i> (Lemon-scented Darwinia)			
505.	5518 <i>Darwinia neildiana</i> (Fringed Bell)			
506.	26739 <i>Dasya extensa</i>			
507.	26749 <i>Dasya villosa</i>			
508.	<i>Dasyatis thetidis</i>			Y
509.	26751 <i>Dasyclonium flaccidum</i>			
510.	26752 <i>Dasyclonium incisum</i>			
511.	1218 <i>Dasygogon bromeliifolius</i> (Pineapple Bush)			
512.	6963 <i>Datura metel</i> (Downy Thornapple)	Y		
513.	6218 <i>Daucus glochidiatus</i> (Australian Carrot)			
514.	3793 <i>Daviesia angulata</i>			

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515.	3799 <i>Daviesia cordata</i> (Bookleaf)			
516.	15505 <i>Daviesia incrassata</i> subsp. <i>incrassata</i>			
517.	3832 <i>Daviesia physodes</i>			
518.	3845 <i>Daviesia triflora</i>			
519.	26757 <i>Delisea pulchra</i>			
520.	25766 <i>Delma fraseri</i> (Fraser's Legless Lizard)			
521.	24999 <i>Delma grayii</i>			
522.	25468 <i>Demansia psammophis</i> (Yellow-faced Whipsnake)			
523.	25296 <i>Demansia psammophis</i> subsp. <i>reticulata</i> (Yellow-faced Whipsnake)			
524.	17663 <i>Desmocladius asper</i>			
525.	17691 <i>Desmocladius fasciculatus</i>			
526.	16595 <i>Desmocladius flexuosus</i>			
527.	299 <i>Deyeuxia quadriseta</i> (Reed Bentgrass)			
528.	1259 <i>Dianella revoluta</i> (Blueberry Lily)			
529.	25607 <i>Dicaeum hirundinaceum</i> (Mistletoebird)			
530.	306 <i>Dichelachne crinita</i> (Longhair Plumegrass)			
531.	1287 <i>Dichopogon capillipes</i>			
532.	1289 <i>Dichopogon preissii</i>			
533.	26761 <i>Dictyomenia harveyana</i>			
534.	26762 <i>Dictyomenia sonderi</i>			
535.	26770 <i>Dictyosphaeria sericea</i>			
536.	17838 <i>Dielsia stenostachya</i>			
537.	24939 <i>Diplodactylus polyophthalmus</i>			
538.	4454 <i>Diplolaena dampieri</i> (Southern Diplolaena)			
539.	18541 <i>Diplopeltis huegelii</i> subsp. <i>huegelii</i>			
540.	19649 <i>Disa bracteata</i>	Y		
541.	7054 <i>Dischisma arenarium</i>	Y		
542.	7055 <i>Dischisma capitatum</i> (Woolly-headed Dischisma)	Y		
543.	7961 <i>Dittrichia graveolens</i> (Stinkwort)	Y		
544.	48254 <i>Diuris cruenta</i>			
545.	1635 <i>Diuris longifolia</i> (Common Donkey Orchid)			
546.	12939 <i>Diuris magnifica</i>			
547.	4782 <i>Dodonaea viscosa</i> (Sticky Hopbush)			
548.	11247 <i>Dodonaea viscosa</i> subsp. <i>angustissima</i>			
549.	26795 <i>Doxodasya bolbochaete</i>			
550.	1640 <i>Drakaea glyptodon</i> (King-in-his-carriage)			
551.	15406 <i>Drakaea gracilis</i>			
552.	11156 <i>Drakaea livida</i>			
553.	24470 <i>Dromaius novaehollandiae</i> (Emu)			
554.	48751 <i>Drosera drummondii</i>			
555.	3095 <i>Drosera erythrorhiza</i> (Red Ink Sundew)			
556.	48747 <i>Drosera geniculata</i>			
557.	3097 <i>Drosera gigantea</i> (Giant Sundew)			
558.	3098 <i>Drosera glanduligera</i> (Pimpernel Sundew)			
559.	3106 <i>Drosera macrantha</i> (Bridal Rainbow)			
560.	3109 <i>Drosera menziesii</i> (Pink Rainbow)			
561.	48710 <i>Drosera micrantha</i>			
562.	3113 <i>Drosera neesii</i> (Jewel Rainbow)			
563.	3114 <i>Drosera nitidula</i> (Shining Sundew)			
564.	13189 <i>Drosera oreopodium</i>			
565.	3118 <i>Drosera pallida</i> (Pale Rainbow)			
566.	8911 <i>Drosera rosulata</i>			
567.	49090 <i>Drosera</i> sp. <i>Branched styles</i> (S.C. Coffey 193)			
568.	3131 <i>Drosera stolonifera</i> (Leafy Sundew)			
569.	13205 <i>Drosera tubaestylis</i>			
570.	33500 <i>Dysphania ambrosioides</i> (Mexican Tea)	Y		
571.	11368 <i>Dysphania glomulifera</i> subsp. <i>glomulifera</i>			
572.	2504 <i>Dysphania plantaginella</i>			
573.	32351 <i>Eccremidium pulchellum</i>			
574.	<i>Echeneis naucrates</i>			
575.	25251 <i>Echiopsis curta</i> (Bardick)			
576.	<i>Ecnomidae</i> sp.			
577.	25096 <i>Egernia kingii</i> (King's Skink)			
578.	25100 <i>Egernia napoleonis</i>			
579.	<i>Egretta garzetta</i>			
580.	<i>Egretta novaehollandiae</i>			
581.	347 <i>Ehrharta calycina</i> (Perennial Veldt Grass)	Y		
582.	349 <i>Ehrharta longiflora</i> (Annual Veldt Grass)	Y		
583.	<i>Elanus axillaris</i>			
584.	25540 <i>Elanus caeruleus</i> (Black-shouldered Kite)			

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585.	24290 <i>Elanus caeruleus</i> subsp. <i>axillaris</i> (Australian Black-shouldered Kite)			
586.	25250 <i>Elapognathus coronatus</i> (Crowned Snake)			
587.	822 <i>Eleocharis acuta</i> (Common Spikerush)			
588.	<i>Elops hawaiiensis</i>			
589.	47937 <i>Eiseyornis melanops</i> (Black-fronted Dotterel)			
590.	1643 <i>Elythranthera brunonis</i> (Purple Enamel Orchid)			
591.	1644 <i>Elythranthera emarginata</i> (Pink Enamel Orchid)			
592.	<i>Eolophus roseicapillus</i>			
593.	24651 <i>Eopsaltria australis</i> subsp. <i>griseogularis</i> (Western Yellow Robin)			
594.	6131 <i>Epilobium billardioreanum</i> (Glabrous Willow Herb)			
595.	6133 <i>Epilobium hirtigerum</i> (Hairy Willow Herb)			
596.	14289 <i>Epilobium tetragonum</i> subsp. <i>tetragonum</i>	Y		
597.	<i>Epinephelus rivulatus</i>			
598.	24567 <i>Epthianura albifrons</i> (White-fronted Chat)			
599.	379 <i>Eragrostis elongata</i> (Clustered Lovegrass)			
600.	13950 <i>Eremaea asterocarpa</i> subsp. <i>asterocarpa</i>			
601.	5541 <i>Eremaea pauciflora</i>			
602.	17175 <i>Eremophila glabra</i> subsp. <i>albicans</i>			
603.	15410 <i>Eriochilus dilatatus</i> subsp. <i>dilatatus</i>			
604.	15412 <i>Eriochilus dilatatus</i> subsp. <i>multiflorus</i>			
605.	<i>Eriophora biapicata</i>			
606.	4332 <i>Erodium botrys</i> (Long Storksbill)	Y		
607.	4333 <i>Erodium cicutarium</i> (Common Storksbill)	Y		
608.	15446 <i>Eryngium pinnatifidum</i> subsp. <i>pinnatifidum</i>			
609.	26822 <i>Erythroclonium sedoides</i>			
610.	24379 <i>Erythronys cinctus</i> (Red-kneed Dotterel)			
611.	5616 <i>Eucalyptus decurva</i> (Slender Mallee)			
612.	5649 <i>Eucalyptus foecunda</i> (Narrow-leaved Red Mallee)			
613.	5659 <i>Eucalyptus gomphocephala</i> (Tuart, Duart)			
614.	5688 <i>Eucalyptus laeliae</i> (Darling Range Ghost Gum)			
615.	5690 <i>Eucalyptus lane-poollei</i> (Salmon White Gum)			
616.	5708 <i>Eucalyptus marginata</i> (Jarrah, Djara)			
617.	13547 <i>Eucalyptus marginata</i> subsp. <i>marginata</i> (Jarrah)			
618.	5739 <i>Eucalyptus patens</i> (Swan River Blackbutt, Dwuda)			
619.	20808 <i>Eucalyptus petiolaris</i>	Y		
620.	5763 <i>Eucalyptus rudis</i> (Flooded Gum, Kulurda)			
621.	13511 <i>Eucalyptus rudis</i> subsp. <i>rudis</i>			
622.	3872 <i>Euchilopsis linearis</i> (Swamp Pea)			
623.	25746 <i>Eudyptula minor</i> (Little Penguin)			
624.	<i>Euleptorhamphus viridis</i>			
625.	4636 <i>Euphorbia paralias</i> (Sea Spurge)	Y		
626.	4648 <i>Euphorbia terracina</i> (Geraldton Carnation Weed)	Y		
627.	26829 <i>Euptilocladia spongiosa</i>			
628.	26830 <i>Euptilota articulata</i>			
629.	3879 <i>Eutaxia parvifolia</i>			
630.	3880 <i>Eutaxia virgata</i>			
631.	835 <i>Evandra pauciflora</i>			
632.	10765 <i>Exocarpos sparteus</i> (Broom Ballart, Djuk)			
633.	25621 <i>Falco berigora</i> (Brown Falcon)			
634.	25622 <i>Falco cenchroides</i> (Australian Kestrel, Nankeen Kestrel)			
635.	25623 <i>Falco longipennis</i> (Australian Hobby)			
636.	24041 <i>Felis catus</i> (Cat)	Y		
637.	1515 <i>Ferraria crispa</i> (Black Flag)	Y		
638.	11445 <i>Ferraria crispa</i> subsp. <i>crispa</i>	Y		
639.	20216 <i>Ficinia nodosa</i> (Knotted Club Rush)			
640.	<i>Filicampus tigris</i>			
641.	27746 <i>Flavoparmelia marchantii</i>			
642.	5209 <i>Frankenia pauciflora</i> (Seaheath)			
643.	18392 <i>Freesia alba</i> x <i>leichtlinii</i>	Y		
644.	25727 <i>Fulica atra</i> (Eurasian Coot)			
645.	24761 <i>Fulica atra</i> subsp. <i>australis</i> (Eurasian Coot)			
646.	2969 <i>Fumaria capreolata</i> (Whiteflower Fumitory)	Y		
647.	31532 <i>Fumaria muralis</i> subsp. <i>muralis</i>	Y		
648.	907 <i>Gahnia trifida</i> (Coast Saw-sedge)			
649.	34028 <i>Galaxias occidentalis</i> (Western Minnow)			
650.	7321 <i>Galium divaricatum</i>	Y		
651.	7323 <i>Galium murale</i> (Small Goosegrass)	Y		
652.	25729 <i>Gallinula tenebrosa</i> (Dusky Moorhen)			
653.	24763 <i>Gallinula tenebrosa</i> subsp. <i>tenebrosa</i> (Dusky Moorhen)			
654.	25730 <i>Gallirallus philippensis</i> (Buff-banded Rail)			

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655.	<i>Gallus gallus</i>			
656.	<i>Gambusia affinis</i>			
657.	20247 <i>Gamochaeta calviceps</i>	Y		
658.	20513 <i>Gastrolobium dilatatum</i>			
659.	20473 <i>Gastrolobium ebracteolatum</i>			
660.	20483 <i>Gastrolobium linearifolium</i>			
661.	20482 <i>Gastrolobium nervosum</i>			
662.	42314 <i>Gavicalis virescens (Singing Honeyeater)</i>			
663.	<i>Geastrum sp.</i>			
664.	26850 <i>Gelinaria ulvoidea</i>			
665.	25404 <i>Geocrinia leai (Ticking Frog)</i>			
666.	4339 <i>Geranium molle (Dove's Foot Cranesbill)</i>	Y		
667.	4340 <i>Geranium retrorsum</i>			
668.	4341 <i>Geranium solanderi (Native Geranium)</i>			
669.	<i>Gerres subfasciatus</i>			
670.	25530 <i>Gerygone fusca (Western Gerygone)</i>			
671.	24271 <i>Gerygone fusca subsp. fusca (Western Gerygone)</i>			
672.	26854 <i>Gigartina disticha</i>			
673.	1518 <i>Gladiolus angustus (Long Tubed Painted Lady)</i>	Y		
674.	1520 <i>Gladiolus caryophyllaceus (Wild Gladiolus)</i>	Y		
675.	1524 <i>Gladiolus undulatus (Wild Gladiolus)</i>	Y		
676.	24054 <i>Globicephala macrorhynchus (Short-finned Pilot Whale)</i>			
677.	17043 <i>Glyceria declinata</i>	Y		
678.	47962 <i>Glyciphila melanops (Tawny-crowned Honeyeater)</i>			
679.	<i>Gomphidae sp.</i>			
680.	10909 <i>Gompholobium confertum</i>			
681.	3957 <i>Gompholobium tomentosum (Hairy Yellow Pea)</i>			
682.	6161 <i>Gonocarpus pithyoides</i>			
683.	<i>Gonorynchus greyi</i>			
684.	7538 <i>Goodenia pulchella</i>			
685.	24443 <i>Grallina cyanoleuca (Magpie-lark)</i>			
686.	1982 <i>Grevillea crithmifolia</i>			
687.	13429 <i>Grevillea diversifolia subsp. diversifolia</i>			
688.	15839 <i>Grevillea preissii subsp. preissii</i>			
689.	12824 <i>Grevillea vestita subsp. vestita</i>			
690.	26883 <i>Griffithsia monilis</i>			
691.	<i>Gripopterygidae sp.</i>			
692.	<i>Gymnapistes marmoratus</i>			
693.	<i>Gymnopilus allantopus</i>			
694.	<i>Gymnothorax prasinus</i>			
695.	<i>Gymnothorax woodwardi</i>			
696.	<i>Gyrinidae sp.</i>			
697.	25627 <i>Haematopus fuliginosus (Sooty Oystercatcher)</i>			
698.	24487 <i>Haematopus longirostris (Pied Oystercatcher)</i>			
699.	1468 <i>Haemodorum laxum</i>			
700.	1472 <i>Haemodorum simplex</i>			
701.	1475 <i>Haemodorum spicatum (Mardja)</i>			
702.	2152 <i>Hakea cyclocarpa (Ramshorn)</i>			
703.	2175 <i>Hakea lissocarpha (Honey Bush)</i>			
704.	45333 <i>Hakea neospathulata</i>			
705.	2197 <i>Hakea prostrata (Harsh Hakea)</i>			
706.	2206 <i>Hakea stenocarpa (Narrow-fruited Hakea)</i>			
707.	2215 <i>Hakea undulata (Wavy-leaved Hakea)</i>			
708.	2216 <i>Hakea varia (Variable-leaved Hakea)</i>			
709.	24293 <i>Haliaeetus leucogaster (White-bellied Sea-Eagle)</i>			
710.	24295 <i>Haliastur sphenurus (Whistling Kite)</i>			
711.	47213 <i>Halimeda versatilis</i>			
712.	24689 <i>Halobaena caerulea (Blue Petrel)</i>			
713.	26900 <i>Haloplegma preissii</i>			
714.	3961 <i>Hardenbergia comptoniana (Native Wisteria)</i>			
715.	25410 <i>Heleioporus eyrei (Moaning Frog)</i>			
716.	25411 <i>Heleioporus inornatus (Whooping Frog)</i>			
717.	25412 <i>Heleioporus psammophilus (Sand Frog)</i>			
718.	3016 <i>Heliophila pusilla</i>	Y		
719.	16933 <i>Hemiandra glabra</i>			
720.	6839 <i>Hemiandra pungens (Snakebush)</i>			
721.	25232 <i>Hemidactylus frenatus (Asian House Gecko)</i>	Y		
722.	25115 <i>Hemiergis initialis subsp. initialis</i>			
723.	25119 <i>Hemiergis quadrilineata</i>			
724.	6856 <i>Hemigenia incana (Silky Hemigenia)</i>			

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725.	6866 <i>Hemigenia pritzelii</i>			
726.	26915 <i>Hennedya crista</i>			
727.	1293 <i>Hensmania turbinata</i>			
728.	26925 <i>Heterocladia caudata</i>			
729.	26936 <i>Heterosiphonia muelleri</i>			
730.	<i>Hexagonia vesparia</i>			
731.	5114 <i>Hibbertia commutata</i>			
732.	5117 <i>Hibbertia cuneiformis</i> (Cutleaf Hibbertia)			
733.	20051 <i>Hibbertia diamesogenos</i>			
734.	5134 <i>Hibbertia huegelii</i>			
735.	5135 <i>Hibbertia hypericoides</i> (Yellow Buttercups)			
736.	45534 <i>Hibbertia hypericoides</i> subsp. <i>hypericoides</i>			
737.	5155 <i>Hibbertia pilosa</i> (Hairy Guinea Flower)			
738.	5162 <i>Hibbertia racemosa</i> (Stalked Guinea Flower)			
739.	43280 <i>Hibbertia sericosepala</i>			
740.	5172 <i>Hibbertia stellaris</i> (Orange Stars)			
741.	48381 <i>Hibbertia striata</i>			
742.	5173 <i>Hibbertia subvaginata</i>			
743.	5176 <i>Hibbertia vaginata</i>			
744.	47965 <i>Hieraaetus morphnoides</i> (Little Eagle)			
745.	25734 <i>Himantopus himantopus</i> (Black-winged Stilt)			
746.	24491 <i>Hirundo neoxena</i> (Welcome Swallow)			
747.	13758 <i>Histiogaster incisa</i>			
748.	445 <i>Holcus setiger</i> (Annual Fog)	Y		
749.	6222 <i>Homalosciadium homalocarpum</i>			
750.	449 <i>Hordeum leporinum</i> (Barley Grass)	Y		
751.	26946 <i>Hormophysa cuneiformis</i>			
752.	3966 <i>Hovea pungens</i> (Devil's Pins, Puyenak)			
753.	3968 <i>Hovea trisperma</i> (Common Hovea)			
754.	12859 <i>Hovea trisperma</i> var. <i>trisperma</i>			
755.	12741 <i>Hyalosperma cotula</i>			
756.	5216 <i>Hybanthus calycinus</i> (Wild Violet)			
757.	6223 <i>Hydrocotyle alata</i>			
758.	6229 <i>Hydrocotyle diantha</i>			
759.	11546 <i>Hydrocotyle pilifera</i> var. <i>glabrata</i>			
760.	6241 <i>Hydrocotyle tetragonocarpa</i>			
761.	25366 <i>Hydrophis elegans</i> (Elegant Seasnake, Bar-bellied Seasnake)			
762.	43384 <i>Hydrophis platurus</i> (Yellow-bellied Seasnake)			
763.	<i>Hydropsychidae</i> sp.			
764.	26960 <i>Hymenocladia chondricola</i>			
765.	26961 <i>Hymenocladia conspersa</i>			
766.	26962 <i>Hymenocladia dactyloides</i>			
767.	26965 <i>Hymenocladia usnea</i>			
768.	452 <i>Hyparrhenia hirta</i> (Tambookie Grass)	Y		
769.	<i>Hyperlophus vittatus</i>			
770.	5817 <i>Hypocalymma angustifolium</i> (White Myrtle, Kudjid)			
771.	35070 <i>Hypocalymma angustifolium</i> subsp. <i>Swan Coastal Plain</i> (G.J. Keighery 16777)			
772.	8086 <i>Hypochaeris glabra</i> (Smooth Catsear)	Y		
773.	1070 <i>Hypolaena exsulca</i>			
774.	17841 <i>Hypolaena pubescens</i>			
775.	<i>Hyporhamphus melanochir</i>			
776.	<i>Hyporhamphus regularis</i>			
777.	<i>Ichthyoscopus barbatus</i>			
778.	<i>Idiommatia blackwalli</i>			
779.	48504 <i>Inocybe acaciae</i>			
780.	48545 <i>Inocybe sabulosa</i>			
781.	910 <i>Isolepis cernua</i> (Nodding Club-rush)			
782.	20200 <i>Isolepis cernua</i> var. <i>setiformis</i>			
783.	911 <i>Isolepis congrua</i>			
784.	917 <i>Isolepis marginata</i> (Coarse Club-rush)			
785.	919 <i>Isolepis oldfieldiana</i>			
786.	921 <i>Isolepis producta</i>			
787.	<i>Isopeda leishmanni</i>			
788.	7396 <i>Isotoma hypocrateriformis</i> (Woodbridge Poison)			
789.	3992 <i>Isotropis cuneifolia</i> (Granny Bonnets)			
790.	19700 <i>Isotropis cuneifolia</i> subsp. <i>cuneifolia</i>			
791.	1532 <i>Ixia maculata</i> (Yellow Ixia)	Y		
792.	8092 <i>Ixiolaena viscosa</i> (Sticky Ixiolaena)			
793.	4012 <i>Jacksonia furcellata</i> (Grey Stinkwood)			
794.	4029 <i>Jacksonia sternbergiana</i> (Stinkwood, Kapur)			

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795.	1175 <i>Juncus acutus</i> (Spiny Rush)	Y		
796.	20454 <i>Juncus acutus</i> subsp. <i>acutus</i>	Y		
797.	1178 <i>Juncus bufonius</i> (Toad Rush)	Y		
798.	1180 <i>Juncus capitatus</i> (Capitate Rush)	Y		
799.	1185 <i>Juncus kraussii</i> (Sea Rush)			
800.	11922 <i>Juncus kraussii</i> subsp. <i>australiensis</i>			
801.	1186 <i>Juncus microcephalus</i>	Y		
802.	1188 <i>Juncus pallidus</i> (Pale Rush)			
803.	4044 <i>Kennedia prostrata</i> (Scarlet Runner)			
804.	26995 <i>Kuetzingia canaliculata</i>			
805.	5832 <i>Kunzea ericifolia</i> (Spearwood, Pondil)			
806.	15498 <i>Kunzea glabrescens</i> (Spearwood)			
807.	17461 <i>Kunzea micrantha</i> subsp. <i>micrantha</i>			
808.	17785 <i>Kunzea micrantha</i> subsp. <i>petiolata</i>			
809.	5841 <i>Kunzea recurva</i>			
810.	13562 <i>Lachenalia aloides</i>	Y		
811.	20019 <i>Lachnagrostis filiformis</i>			
812.	8095 <i>Lactuca saligna</i> (Wild Lettuce, Willow-leaf Lettuce)	Y		
813.	8096 <i>Lactuca serriola</i> (Prickly Lettuce)	Y		
814.	18585 <i>Lagenophora huegelii</i>			
815.	467 <i>Lagurus ovatus</i> (Hare's Tail Grass)	Y		
816.	24367 <i>Lalage tricolor</i> (White-winged Triller)			
817.	14083 <i>Lambertia multiflora</i> var. <i>darlingensis</i>			
818.	<i>Lampona brevipes</i>			
819.	<i>Lampona cylindrata</i>			
820.	24510 <i>Larus dominicanus</i> (Kelp Gull)			
821.	25637 <i>Larus novaehollandiae</i> (Silver Gull)			
822.	24511 <i>Larus novaehollandiae</i> subsp. <i>novaehollandiae</i> (Silver Gull)			
823.	25638 <i>Larus pacificus</i> (Pacific Gull)			
824.	4052 <i>Latrobea tenella</i>			
825.	27001 <i>Laurencia filiformis</i>			
826.	4958 <i>Lawrenxia spicata</i>			
827.	11911 <i>Laxmannia ramosa</i> subsp. <i>ramosa</i>			
828.	1309 <i>Laxmannia squarrosa</i>			
829.	7568 <i>Lechenaultia biloba</i> (Blue Leschenaultia)			
830.	7572 <i>Lechenaultia expansa</i>			
831.	7574 <i>Lechenaultia floribunda</i> (Free-flowering Leschenaultia)			
832.	<i>Lenormandia marginata</i>			
833.	44490 <i>Leontodon rhagadioloides</i>	Y		
834.	925 <i>Lepidosperma angustatum</i>			
835.	42742 <i>Lepidosperma calcicola</i>			
836.	932 <i>Lepidosperma effusum</i> (Spreading Sword-sedge)			
837.	933 <i>Lepidosperma gladiatum</i> (Coast Sword-sedge, Kerbin)			
838.	937 <i>Lepidosperma longitudinale</i> (Pithy Sword-sedge)			
839.	940 <i>Lepidosperma pubisquamum</i>			
840.	<i>Lepidosperma</i> sp.			
841.	945 <i>Lepidosperma squamatum</i>			
842.	1653 <i>Leporella fimbriata</i> (Hare Orchid)			
843.	1078 <i>Leptocarpus coangustatus</i>			
844.	46375 <i>Leptocarpus decipiens</i>			
845.	46382 <i>Leptocarpus roycei</i>			
846.	1080 <i>Leptocarpus scariosus</i>			
847.	15418 <i>Leptoceras menziesii</i>			
848.	<i>Leptoceridae</i> sp.			
849.	2344 <i>Leptomeria empetriformis</i>			
850.	2352 <i>Leptomeria preissiana</i>			
851.	17852 <i>Leptorhynchos scaber</i> (Lanky Buttons)			
852.	5850 <i>Leptospermum laevigatum</i> (Coast Teatree)	Y		
853.	1085 <i>Lepyrodia glauca</i>			
854.	1088 <i>Lepyrodia macra</i> (Large Scale Rush)			
855.	1090 <i>Lepyrodia muirii</i>			
856.	25131 <i>Lerista distinguenda</i>			
857.	25133 <i>Lerista elegans</i>			
858.	25148 <i>Lerista lineopunctulata</i>			
859.	6360 <i>Leucopogon australis</i> (Spiked Beard-heath)			
860.	6374 <i>Leucopogon conostephioides</i>			
861.	6405 <i>Leucopogon insularis</i>			
862.	6427 <i>Leucopogon parviflorus</i> (Coast Beard-heath)			
863.	6436 <i>Leucopogon propinquus</i>			
864.	6439 <i>Leucopogon pulchellus</i> (Beard-heath)			

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865.	6451 <i>Leucopogon tenuis</i>			
866.	7677 <i>Levenhookia stipitata</i> (Common Stylewort)			
867.	25005 <i>Lialis burtonis</i>			
868.	25661 <i>Lichmera indistincta</i> (Brown Honeyeater)			
869.	24582 <i>Lichmera indistincta</i> subsp. <i>indistincta</i> (Brown Honeyeater)			
870.	25415 <i>Limnodynastes dorsalis</i> (Western Banjo Frog)			
871.	7075 <i>Linaria maroccana</i>	Y		
872.	36160 <i>Liparophyllum capitatum</i>			
873.	36179 <i>Liparophyllum violifolium</i>			
874.	25378 <i>Litoria adelaidensis</i> (Slender Tree Frog)			
875.	25388 <i>Litoria moorei</i> (Motorbike Frog)			
876.	9289 <i>Lobelia anceps</i> (Angled Lobelia)			
877.	7408 <i>Lobelia tenuior</i> (Slender Lobelia)			
878.	<i>Lobodon carcinophaga</i>			
879.	6515 <i>Logania vaginalis</i> (White Spray)			
880.	475 <i>Lolium multiflorum</i> (Italian Ryegrass)	Y		
881.	476 <i>Lolium perenne</i> (Perennial Ryegrass)	Y		
882.	478 <i>Lolium rigidum</i> (Wimmera Ryegrass)	Y		
883.	<i>Lolium</i> sp.			
884.	11073 <i>Lolium x hybridum</i>	Y		
885.	1223 <i>Lomandra caespitosa</i> (Tufted Mat Rush)			
886.	1228 <i>Lomandra hermaphrodita</i>			
887.	1231 <i>Lomandra maritima</i>			
888.	1232 <i>Lomandra micrantha</i> (Small-flower Mat-rush)			
889.	14542 <i>Lomandra micrantha</i> subsp. <i>micrantha</i>			
890.	1234 <i>Lomandra nigricans</i>			
891.	1236 <i>Lomandra odora</i> (Tiered Matrush)			
892.	1239 <i>Lomandra preissii</i>			
893.	1240 <i>Lomandra purpurea</i> (Purple Mat Rush)			
894.	1243 <i>Lomandra sericea</i> (Silky Mat Rush)			
895.	1244 <i>Lomandra sonderi</i>			
896.	1246 <i>Lomandra suaveolens</i>			
897.	<i>Lophocitnia isura</i>			
898.	4059 <i>Lotus angustissimus</i> (Narrowleaf Trefoil)	Y		
899.	8564 <i>Lotus subbiflorus</i>	Y		
900.	4065 <i>Lupinus angustifolius</i> (Narrowleaf Lupin)	Y		
901.	4066 <i>Lupinus cosentinii</i>	Y		
902.	4067 <i>Lupinus luteus</i> (Yellow Lupin)	Y		
903.	1198 <i>Luzula meridionalis</i> (Field Woodrush)			
904.	1097 <i>Lyginia barbata</i>			
905.	18049 <i>Lyginia imberbis</i>			
906.	2396 <i>Lysiana casuarinae</i>			
907.	36375 <i>Lysimachia arvensis</i> (Pimpernel)	Y		
908.	5281 <i>Lythrum hyssopifolia</i> (Lesser Loosestrife)	Y		
909.	2838 <i>Macarthuria apetala</i>			
910.	2839 <i>Macarthuria australis</i>			
911.	<i>Macrolepiota clelandii</i>			
912.	24132 <i>Macropus fuliginosus</i> (Western Grey Kangaroo)			
913.	85 <i>Macrozamia riedlei</i> (<i>Zamia</i> , Djiridji)			
914.	24326 <i>Malacorhynchus membranaceus</i> (Pink-eared Duck)			
915.	25654 <i>Malurus splendens</i> (Splendid Fairy-wren)			
916.	24552 <i>Malurus splendens</i> subsp. <i>splendens</i> (Splendid Fairy-wren)			
917.	36480 <i>Malva arborea</i> (Tree Mallow)	Y		
918.	4961 <i>Malva parviflora</i> (Marshmallow)	Y		
919.	36522 <i>Malva pseudolavatera</i>	Y		
920.	24583 <i>Manorina flavigula</i> (Yellow-throated Miner)			
921.	<i>Maratus pavonis</i>			
922.	17636 <i>Marianthus coeruleopunctatus</i> (Blue-spotted Marianthus)			
923.	4079 <i>Medicago polymorpha</i> (Burr Medic)	Y		
924.	4080 <i>Medicago sativa</i> (Alfalfa)	Y		
925.	25758 <i>Megalurus gramineus</i> (Little Grassbird)			
926.	24838 <i>Megalurus gramineus</i> subsp. <i>gramineus</i> (Little Grassbird)			
927.	34676 <i>Meionectes brownii</i> (Swamp Raspwort)			
928.	5900 <i>Melaleuca cuticularis</i> (Saltwater Paperbark)			
929.	5921 <i>Melaleuca incana</i> (Grey Honey-myrtle)			
930.	13273 <i>Melaleuca incana</i> subsp. <i>incana</i>			
931.	5926 <i>Melaleuca lateritia</i> (Robin Redbreast Bush)			
932.	20297 <i>Melaleuca osullivanii</i>			
933.	18394 <i>Melaleuca parviceps</i>			
934.	5946 <i>Melaleuca pauciflora</i>			

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935.	5952 <i>Melaleuca preissiana</i> (Moonah)			
936.	5959 <i>Melaleuca raphiophylla</i> (Swamp Paperbark)			
937.	18598 <i>Melaleuca systema</i>			
938.	5978 <i>Melaleuca teretifolia</i> (Banbar)			
939.	5980 <i>Melaleuca thymoides</i>			
940.	5987 <i>Melaleuca viminea</i> (Mohan)			
941.	13280 <i>Melaleuca viminea</i> subsp. <i>viminea</i>			
942.	4085 <i>Melilotus indicus</i>	Y		
943.	24587 <i>Melithreptus chloropsis</i> (Western White-naped Honeyeater)			
944.	25184 <i>Menetia greyii</i>			
945.	6883 <i>Mentha pulegium</i> (Pennyroyal)	Y		
946.	6886 <i>Mentha x piperita</i>	Y		Y
947.	24598 <i>Merops ornatus</i> (Rainbow Bee-eater)			
948.	955 <i>Mesomelaena pseudostygia</i>			
949.	11473 <i>Mesomelaena stygia</i> subsp. <i>stygia</i>			
950.	957 <i>Mesomelaena tetragona</i> (Semaphore Sedge)			
951.	27070 <i>Metamastophora flabellata</i>			
952.	<i>Microcarbo melanoleucos</i>			
953.	25693 <i>Microeca fascinans</i> (Jacky Winter)			
954.	485 <i>Microlaena stipoides</i> (Weeping Grass)			
955.	1657 <i>Microtis alba</i> (White Mignonette Orchid)			
956.	10954 <i>Microtis media</i> (Tall Mignonette Orchid)			
957.	15419 <i>Microtis media</i> subsp. <i>media</i>			
958.	1660 <i>Microtis orbicularis</i> (Dark Mignonette Orchid)			
959.	8105 <i>Millotia myosotidifolia</i>			
960.	16693 <i>Minuartia mediterranea</i>	Y		
961.	<i>Missulena granulosa</i>			
962.	<i>Missulena hoggi</i>			
963.	<i>Missulena occatoria</i>			
964.	2894 <i>Moenchia erecta</i> (Erect Chickweed)	Y		
965.	<i>Mola mola</i>			
966.	24904 <i>Moloch horridus</i> (Thorny Devil)			
967.	7410 <i>Monopsis debilis</i>	Y		
968.	37440 <i>Monopsis debilis</i> var. <i>depressa</i>	Y		
969.	19179 <i>Moraea flaccida</i> (One-leaf Cape Tulip)	Y		
970.	25240 <i>Morelia spilota</i> subsp. <i>imbricata</i> (Carpet Python)			
971.	25191 <i>Morethia lineocellata</i>			
972.	25192 <i>Morethia obscura</i>			
973.	48008 <i>Morus serrator</i> (Australasian Gannet)			
974.	2412 <i>Muehlenbeckia adpressa</i> (Climbing Lignum)			
975.	6490 <i>Muellerolimon salicorniaceum</i>			
976.	<i>Mugil cephalus</i>			
977.	24223 <i>Mus musculus</i> (House Mouse)	Y		
978.	38811 <i>Mycena clarkeana</i>			
979.	<i>Mycena nargan</i>			
980.	27080 <i>Mychodea disticha</i>			
981.	7289 <i>Myoporum caprarioides</i> (Slender Myoporum)			
982.	27091 <i>Myriodesma serrulatum</i>			
983.	<i>Nannoperca vittata</i>			
984.	1495 <i>Narcissus tazetta</i> (Jonquil)	Y		
985.	25248 <i>Neelaps bimaculatus</i> (Black-naped Snake)			
986.	24738 <i>Neophema elegans</i> (Elegant Parrot)			
987.	24739 <i>Neophema petrophila</i> (Rock Parrot)			
988.	<i>Nephila edulis</i>			
989.	<i>Nicodamus mainae</i>			
990.	27103 <i>Nizymania conferta</i>			
991.	<i>Nodularia spumigena</i>			Y
992.	25252 <i>Notechis scutatus</i> (Tiger Snake)			
993.	2401 <i>Nuytsia floribunda</i> (Christmas Tree, Mudja)			
994.	25564 <i>Nycticorax caledonicus</i> (Rufous Night Heron)			
995.	24194 <i>Nyctophilus geoffroyi</i> (Lesser Long-eared Bat)			
996.	24407 <i>Ocyphaps lophotes</i> (Crested Pigeon)			
997.	<i>Odax cyanomelas</i>			
998.	16390 <i>Oenothera drummondii</i> subsp. <i>drummondii</i>	Y		
999.	16347 <i>Oenothera laciniata</i>	Y		
1000.	35416 <i>Oenothera lindheimeri</i>	Y		
1001.	6140 <i>Oenothera mollissima</i>	Y		
1002.	14292 <i>Oenothera stricta</i> subsp. <i>stricta</i>	Y		
1003.	8127 <i>Olearia axillaris</i> (Coastal Daisybush)			
1004.	8149 <i>Olearia rudis</i> (Rough Daisybush)			

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1005.	<i>Oligochaeta</i> sp.			
1006.	38816 <i>Omphalotus nidiformis</i>			
1007.	7348 <i>Opercularia hispidula</i> (Hispid Stinkweed)			
1008.	18255 <i>Opercularia vaginata</i> (Dog Weed)			
1009.	<i>Ophisurus serpens</i>			
1010.	<i>Orectolobus ornatus</i>			
1011.	4113 <i>Ornithopus compressus</i> (Yellow Serradella)	Y		
1012.	4114 <i>Ornithopus pinnatus</i> (Slender Serradella)	Y		
1013.	7122 <i>Orobanche minor</i> (Lesser Broomrape)	Y		
1014.	32406 <i>Orthodontium lineare</i>			
1015.	24085 <i>Oryctolagus cuniculus</i> (Rabbit)	Y		
1016.	27107 <i>Osmundaria prolifera</i>			
1017.	34016 <i>Ovis aries</i> (Sheep)			
1018.	4349 <i>Oxalis corniculata</i> (Yellow Wood Sorrel)	Y		
1019.	30375 <i>Oxalis exilis</i>			
1020.	4352 <i>Oxalis glabra</i>	Y		
1021.	4355 <i>Oxalis perennans</i>			
1022.	4356 <i>Oxalis pes-caprae</i> (Soursob)	Y		
1023.	4358 <i>Oxalis purpurea</i> (Largeflower Wood Sorrel)	Y		
1024.	<i>Oxyopes gracilipes</i>			
1025.	25680 <i>Pachycephala rufiventris</i> (Rufous Whistler)			
1026.	<i>Palaemonidae</i> sp.			
1027.	1667 <i>Paracaleana nigrita</i> (Flying Duck Orchid)			
1028.	20101 <i>Paragonis grandiflora</i>			
1029.	516 <i>Parapholis incurva</i> (Coast Barbgrass)	Y		
1030.	<i>Paraplagusia bilineata</i>			
1031.	<i>Paraplesiops meleagris</i>			
1032.	25253 <i>Parasuta gouldii</i>			
1033.	25255 <i>Parasuta nigriceps</i>			
1034.	25681 <i>Pardalotus punctatus</i> (Spotted Pardalote)			
1035.	25682 <i>Pardalotus striatus</i> (Striated Pardalote)			
1036.	24630 <i>Pardalotus striatus</i> subsp. <i>westraliensis</i> (Striated Pardalote)			
1037.	7089 <i>Parentucellia latifolia</i> (Common Bartsia)	Y		
1038.	1763 <i>Parietaria judaica</i> (Pellitory)	Y		
1039.	30458 <i>Parmotrema reticulatum</i>			
1040.	527 <i>Paspalum dilatatum</i>	Y		
1041.	528 <i>Paspalum distichum</i> (Water Couch)	Y		
1042.	533 <i>Paspalum vaginatum</i> (Salt Water Couch)			
1043.	5225 <i>Passiflora filamentosa</i>	Y		
1044.	1550 <i>Patersonia occidentalis</i> (Purple Flag, Koma)			
1045.	30471 <i>Patersonia occidentalis</i> var. <i>angustifolia</i>			
1046.	30472 <i>Patersonia occidentalis</i> var. <i>occidentalis</i>			
1047.	14433 <i>Patersonia rudis</i> subsp. <i>rudis</i>			
1048.	43761 <i>Pauridia occidentalis</i> var. <i>occidentalis</i>			
1049.	43762 <i>Pauridia occidentalis</i> var. <i>quadriloba</i>			
1050.	<i>Pegasus volitans</i>			
1051.	4343 <i>Pelargonium capitatum</i> (Rose Pelargonium)	Y		
1052.	4346 <i>Pelargonium littorale</i>			
1053.	11139 <i>Pelargonium x domesticum</i>	Y		
1054.	24648 <i>Pelecanus conspicillatus</i> (Australian Pelican)			
1055.	6006 <i>Pericalymma ellipticum</i> (Swamp Teatree)			
1056.	16477 <i>Pericalymma ellipticum</i> var. <i>ellipticum</i>			
1057.	16478 <i>Pericalymma ellipticum</i> var. <i>floridum</i>			
1058.	2273 <i>Persoonia saccata</i> (Snottygobble)			
1059.	48061 <i>Petrochelidon nigricans</i> (Tree Martin)			
1060.	48066 <i>Petroica boodang</i> (Scarlet Robin)			
1061.	20368 <i>Petrophile axillaris</i>			
1062.	2299 <i>Petrophile linearis</i> (Pixie Mops)			
1063.	2308 <i>Petrophile seminuda</i>			
1064.	2309 <i>Petrophile serruriae</i>			
1065.	19825 <i>Petrorhagia dubia</i>	Y		
1066.	<i>Peziza</i> sp.			
1067.	25697 <i>Phalacrocorax carbo</i> (Great Cormorant)			
1068.	24664 <i>Phalacrocorax carbo</i> subsp. <i>novaehollandiae</i> (Great Cormorant)			
1069.	25698 <i>Phalacrocorax melanoleucos</i> (Little Pied Cormorant)			
1070.	24666 <i>Phalacrocorax melanoleucos</i> subsp. <i>melanoleucos</i> (Little Pied Cormorant)			
1071.	24667 <i>Phalacrocorax sulcirostris</i> (Little Black Cormorant)			
1072.	25699 <i>Phalacrocorax varius</i> (Pied Cormorant)			
1073.	548 <i>Phalaris aquatica</i> (Phalaris)	Y		
1074.	551 <i>Phalaris minor</i> (Lesser Canary Grass)	Y		

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1075.	24409 <i>Phaps chalcoptera</i> (Common Bronzewing)			
1076.	25587 <i>Phaps elegans</i> (Brush Bronzewing)			
1077.	20460 <i>Pheladenia deformis</i>			
1078.	18529 <i>Philothea spicata</i> (Pepper and Salt)			
1079.	1478 <i>Phlebocarya ciliata</i>			
1080.	1479 <i>Phlebocarya filifolia</i>			
1081.	48071 <i>Phylidonyris niger</i> (White-cheeked Honeyeater)			
1082.	24596 <i>Phylidonyris novaehollandiae</i> (New Holland Honeyeater)			
1083.	16177 <i>Phyllangium paradoxum</i>			
1084.	4675 <i>Phyllanthus calycinus</i> (False Boronia)			
1085.	<i>Phyllichthys punctatus</i>			
1086.	4 <i>Phylloglossum drummondii</i> (Pigmy Clubmoss)			
1087.	2793 <i>Phytolacca octandra</i> (Red Ink Plant)	Y		
1088.	<i>Phytophthora cinnamomi</i>			
1089.	14370 <i>Picris angustifolia</i> subsp. <i>angustifolia</i>			
1090.	5231 <i>Pimelea angustifolia</i> (Narrow-leaved Pimelea)			
1091.	11667 <i>Pimelea brevistyla</i> subsp. <i>brevistyla</i>			
1092.	5251 <i>Pimelea imbricata</i>			
1093.	11402 <i>Pimelea imbricata</i> var. <i>piligera</i>			
1094.	5252 <i>Pimelea lanata</i>			
1095.	5261 <i>Pimelea rosea</i> (Rose Banjine)			
1096.	18117 <i>Pimelea rosea</i> subsp. <i>rosea</i>			
1097.	87 <i>Pinus pinaster</i> (Pinaster Pine)	Y		
1098.	18353 <i>Pithecarpa pulchella</i> var. <i>pulchella</i>			
1099.	24841 <i>Platalea flavipes</i> (Yellow-billed Spoonbill)			
1100.	<i>Platycephalus speculator</i>			
1101.	25720 <i>Platycercus icterotis</i> (Western Rosella)			
1102.	24745 <i>Platycercus icterotis</i> subsp. <i>icterotis</i> (Western Rosella)			
1103.	24747 <i>Platycercus spurius</i> (Red-capped Parrot)			
1104.	25721 <i>Platycercus zonarius</i> (Australian Ringneck, Ring-necked Parrot)			
1105.	24750 <i>Platycercus zonarius</i> subsp. <i>semitorquatus</i> (Twenty-eight Parrot)			
1106.	38823 <i>Pleuroflammula praestans</i>			
1107.	27156 <i>Plocamium mertensii</i>			
1108.	571 <i>Poa annua</i> (Winter Grass)	Y		
1109.	573 <i>Poa drummondiana</i> (Knotted Poa)			
1110.	577 <i>Poa poliformis</i> (Coastal Poa)			
1111.	578 <i>Poa porphyroclados</i>			
1112.	25703 <i>Podargus strigoides</i> (Tawny Frogmouth)			
1113.	25704 <i>Podiceps cristatus</i> (Great Crested Grebe)			
1114.	24680 <i>Podiceps cristatus</i> subsp. <i>australis</i> (Great Crested Grebe)			
1115.	8175 <i>Podolepis gracilis</i> (Slender Podolepis)			
1116.	8177 <i>Podolepis lessonii</i>			
1117.	8182 <i>Podotheca angustifolia</i> (Sticky Longheads)			
1118.	8183 <i>Podotheca chrysantha</i> (Yellow Podotheca)			
1119.	8184 <i>Podotheca gnaphalioides</i> (Golden Long-heads)			
1120.	<i>Podotheca</i> sp.			
1121.	25510 <i>Pogona minor</i> (Dwarf Bearded Dragon)			
1122.	24907 <i>Pogona minor</i> subsp. <i>minor</i> (Dwarf Bearded Dragon)			
1123.	24681 <i>Poliocephalus poliocephalus</i> (Hoary-headed Grebe)			
1124.	27161 <i>Pollexenia lobata</i>			
1125.	2905 <i>Polycarpon tetraphyllum</i> (Fourleaf Allseed)	Y		
1126.	2419 <i>Polygonum aviculare</i> (Wireweed)	Y		
1127.	581 <i>Polypogon maritimus</i> (Coast Beardgrass)	Y		
1128.	582 <i>Polypogon monspeliensis</i> (Annual Beardgrass)	Y		
1129.	25722 <i>Polytelis anthopeplus</i> (Regent Parrot)			
1130.	<i>Pomatopus saltatrix</i>			
1131.	4691 <i>Poranthera microphylla</i> (Small Poranthera)			
1132.	25731 <i>Porphyrio porphyrio</i> (Purple Swamphen)			
1133.	24767 <i>Porphyrio porphyrio</i> subsp. <i>bellus</i> (Purple Swamphen)			
1134.	24769 <i>Porzana fluminea</i> (Australian Spotted Crane)			
1135.	25732 <i>Porzana pusilla</i> (Baillon's Crane)			
1136.	24771 <i>Porzana tabuensis</i> (Spotless Crane)			
1137.	106 <i>Posidonia denhartogii</i>			
1138.	111 <i>Potamogeton ochreatus</i> (Blunt Pondweed)			
1139.	1668 <i>Prasophyllum brownii</i>			
1140.	1670 <i>Prasophyllum drummondii</i> (Swamp Leek Orchid)			
1141.	1672 <i>Prasophyllum fimbria</i> (Fringed Leek Orchid)			
1142.	1674 <i>Prasophyllum giganteum</i> (Bronze Leek Orchid)			
1143.	16688 <i>Prasophyllum gracile</i>			
1144.	1676 <i>Prasophyllum hians</i> (Yawning Leek Orchid)			

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1145.	1680 <i>Prasophyllum parvifolium</i> (Autumn Leek Orchid)			
1146.	25511 <i>Pseudonaja affinis</i> (Dugite)			
1147.	25259 <i>Pseudonaja affinis</i> subsp. <i>affinis</i> (Dugite)			
1148.	25264 <i>Pseudonaja nuchalis</i> (Gwardar, Northern Brown Snake)			
1149.	25433 <i>Pseudophryne guentheri</i> (Crawling Toadlet)			
1150.	<i>Pseudophycis breviuscula</i>			
1151.	57 <i>Pteridium esculentum</i> (Bracken)			
1152.	41651 <i>Pteridium esculentum</i> subsp. <i>esculentum</i>			
1153.	27195 <i>Pterocladia lucida</i>			
1154.	24702 <i>Pterodroma brevirostris</i> (Kerguelen Petrel)			
1155.	24703 <i>Pterodroma lessonii</i> (White-headed Petrel)			
1156.	<i>Pterostylis aff. nana</i>			
1157.	48678 <i>Pterostylis angulata</i>			
1158.	15426 <i>Pterostylis aspera</i>			
1159.	1686 <i>Pterostylis barbata</i> (Bird Orchid)			
1160.	17267 <i>Pterostylis brevisepala</i>			
1161.	48677 <i>Pterostylis ectypha</i>			
1162.	48674 <i>Pterostylis orbiculata</i>			
1163.	11118 <i>Pterostylis pyramidalis</i> (Snail Orchid)			
1164.	1693 <i>Pterostylis recurva</i> (Jug Orchid)			
1165.	12217 <i>Pterostylis sanguinea</i>			
1166.	<i>Pterostylis</i> sp.			
1167.	18655 <i>Pterostylis</i> sp. <i>crinkled leaf</i> (G.J. Keighery 13426)			
1168.	1698 <i>Pterostylis vittata</i> (Banded Greenhood)			
1169.	27206 <i>Ptilophora prolifera</i>			
1170.	2718 <i>Ptilotus drummondii</i> (Narrowleaf Mulla Mulla)			
1171.	2751 <i>Ptilotus polystachyus</i> (Prince of Wales Feather)			
1172.	2759 <i>Ptilotus sericostachyus</i>			
1173.	15856 <i>Ptilotus sericostachyus</i> subsp. <i>sericostachyus</i>			
1174.	4177 <i>Pultenaea ochreatea</i>			
1175.	<i>Purpurecephalus spurius</i>			
1176.	16367 <i>Pyrorchis nigricans</i> (Red beaks, Elephants ears)			
1177.	8195 <i>Quinetia urvillei</i>			
1178.	32480 <i>Racopilum cuspidigerum</i> var. <i>convolutaceum</i>			
1179.	2933 <i>Ranunculus muricatus</i> (Sharp Buttercup)	Y		
1180.	2935 <i>Ranunculus pumilio</i> (Smallflower Buttercup)			
1181.	11927 <i>Ranunculus sessiliflorus</i> var. <i>sessiliflorus</i>			
1182.	2938 <i>Ranunculus trilobus</i> (Buttercup)	Y		
1183.	3061 <i>Raphanus raphanistrum</i> (Wild Radish)	Y		
1184.	24243 <i>Rattus fuscipes</i> (Western Bush Rat)			
1185.	24245 <i>Rattus rattus</i> (Black Rat)	Y		
1186.	<i>Raveniella peckorum</i>			
1187.	24776 <i>Recurvirostra novaehollandiae</i> (Red-necked Avocet)			
1188.	<i>Regalecus glesne</i>			
1189.	6012 <i>Regelia ciliata</i>			
1190.	38832 <i>Resupinatus cinerascens</i>			
1191.	19183 <i>Retama raetam</i>	Y		
1192.	27211 <i>Rhabdonia coccinea</i>			
1193.	<i>Rhabdonia verticillata</i>			
1194.	11341 <i>Rhagodia baccata</i> subsp. <i>baccata</i>			
1195.	11930 <i>Rhagodia baccata</i> subsp. <i>dioica</i> (Sea Berry Saltbush)			
1196.	48096 <i>Rhipidura albiscapa</i> (Grey Fantail)			
1197.	25614 <i>Rhipidura leucophrys</i> (Willie Wagtail)			
1198.	24454 <i>Rhipidura leucophrys</i> subsp. <i>leucophrys</i> (Willie Wagtail)			
1199.	13300 <i>Rhodanthe citrina</i>			
1200.	1554 <i>Romulea flava</i>	Y		
1201.	1556 <i>Romulea rosea</i> (Guildford Grass)	Y		
1202.	11544 <i>Romulea rosea</i> var. <i>australis</i> (Guildford Grass)	Y		
1203.	2429 <i>Rumex acetosella</i> (Sorrel)	Y		
1204.	2432 <i>Rumex conglomeratus</i> (Clustered Dock)	Y		
1205.	2433 <i>Rumex crispus</i> (Curled Dock)	Y		
1206.	46434 <i>Rumex hypogaeus</i>	Y		
1207.	2440 <i>Rumex pulcher</i> (Fiddle Dock)	Y		
1208.	38836 <i>Russula erumpens</i>			
1209.	40425 <i>Rytidosperma caespitosum</i>			
1210.	40426 <i>Rytidosperma occidentale</i>			
1211.	48433 <i>Salicornia blackiana</i>			
1212.	48430 <i>Salicornia quinqueflora</i>			
1213.	48431 <i>Salicornia quinqueflora</i> subsp. <i>quinqueflora</i> (Beaded Glasswort)			
1214.	<i>Salmo gairdneri</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
1215.	<i>Salmo trutta</i>			
1216.	79 <i>Salvinia molesta</i> (<i>Salvinia</i>)	Y		
1217.	6483 <i>Samolus junceus</i>			
1218.	6484 <i>Samolus repens</i> (<i>Creeping Brookweed</i>)			
1219.	27232 <i>Sarcotrichia tenera</i>			
1220.	27264 <i>Scaberia agardhii</i>			
1221.	7368 <i>Scabiosa atropurpurea</i> (<i>Purple Pincushion</i>)	Y		
1222.	7595 <i>Scaevola anchusifolia</i>			
1223.	7603 <i>Scaevola canescens</i> (<i>Grey Scaevola</i>)			
1224.	7606 <i>Scaevola crassifolia</i> (<i>Thick-leaved Fan-flower</i>)			
1225.	7614 <i>Scaevola globulifera</i>			
1226.	7635 <i>Scaevola pilosa</i> (<i>Hairy Fan-flower</i>)			
1227.	13152 <i>Scaevola thesioides</i> subsp. <i>thesioides</i>			
1228.	48834 <i>Schinus terebinthifolia</i>	Y		
1229.	6263 <i>Schoenolaena juncea</i>			
1230.	48356 <i>Schoenoplectus tabernaemontani</i>			
1231.	978 <i>Schoenus brevisetis</i>			
1232.	984 <i>Schoenus curvifolius</i>			
1233.	986 <i>Schoenus efoliatus</i>			
1234.	992 <i>Schoenus grandiflorus</i> (<i>Large Flowered Bogrush</i>)			
1235.	1004 <i>Schoenus nitens</i> (<i>Shiny Bog-rush</i>)			
1236.	1006 <i>Schoenus odontocarpus</i>			
1237.	1016 <i>Schoenus subbarbatus</i> (<i>Bearded Bog-rush</i>)			
1238.	1018 <i>Schoenus subfascicularis</i>			
1239.	1023 <i>Schoenus tenellus</i>			
1240.	17409 <i>Schoenus variicellae</i>			
1241.	6033 <i>Scholtzia involucrata</i> (<i>Spiked Scholtzia</i>)			
1242.	<i>Schuettea woodwardi</i>			
1243.	<i>Scobinichthys granulatus</i>			
1244.	6 <i>Selaginella gracillima</i> (<i>Tiny Clubmoss</i>)			
1245.	32433 <i>Sematophyllum homomallum</i>			
1246.	25878 <i>Senecio condylus</i>			
1247.	8203 <i>Senecio diaschides</i>			
1248.	20161 <i>Senecio pinnatifolius</i>			
1249.	25884 <i>Senecio pinnatifolius</i> var. <i>latilobus</i>			
1250.	8218 <i>Senecio ramosissimus</i> (<i>Auricled Groundsel</i>)			
1251.	25534 <i>Sericornis frontalis</i> (<i>White-browed Scrubwren</i>)			
1252.	24279 <i>Sericornis frontalis</i> subsp. <i>maculatus</i> (<i>White-browed Scrubwren</i>)			
1253.	<i>Servaea melaina</i>			
1254.	609 <i>Setaria palmifolia</i> (<i>Palm Grass</i>)	Y		
1255.	4980 <i>Sida hookeriana</i>			
1256.	2909 <i>Silene gallica</i> (<i>French Catchfly</i>)	Y		
1257.	15972 <i>Silene gallica</i> var. <i>gallica</i>	Y		
1258.	<i>Sillaginodes punctata</i>			
1259.	<i>Sillago bassensis</i>			
1260.	<i>Sillago maculata</i>			
1261.	<i>Sillago schomburgkii</i>			
1262.	8224 <i>Siloxerus filifolius</i>			
1263.	8225 <i>Siloxerus humifusus</i> (<i>Procumbent Siloxerus</i>)			
1264.	25266 <i>Simoselaps bertholdi</i> (<i>Jan's Banded Snake</i>)			
1265.	<i>Simuliidae</i> sp.			
1266.	<i>Siphania cuneiceps</i>			
1267.	42785 <i>Sirophysalis trinodis</i>			
1268.	30948 <i>Smicromis brevirostris</i> (<i>Weebill</i>)			
1269.	7020 <i>Solanum linnaeanum</i> (<i>Apple of Sodom</i>)	Y		
1270.	7022 <i>Solanum nigrum</i> (<i>Black Berry Nightshade</i>)	Y		
1271.	7034 <i>Solanum simile</i> (<i>Oondoroo</i>)			
1272.	10920 <i>Soliva sessilis</i> (<i>Jo-jo, Onehunga Weed</i>)	Y		
1273.	8230 <i>Sonchus asper</i> (<i>Rough Sowthistle</i>)	Y		
1274.	9367 <i>Sonchus hydrophilus</i> (<i>Native Sowthistle</i>)			
1275.	8231 <i>Sonchus oleraceus</i> (<i>Common Sowthistle</i>)	Y		
1276.	1312 <i>Sowerbaea laxiflora</i> (<i>Purple Tassels</i>)			
1277.	2912 <i>Spergula arvensis</i> (<i>Corn Spurry</i>)	Y		
1278.	2914 <i>Spergularia diandra</i> (<i>Lesser Sand Spurry</i>)	Y		
1279.	8900 <i>Spergularia marina</i>			
1280.	<i>Sphaerobolus stellatus</i>			
1281.	<i>Sphyraena obtusata</i>			
1282.	624 <i>Spinifex hirsutus</i> (<i>Hairy Spinifex</i>)			
1283.	625 <i>Spinifex longifolius</i> (<i>Beach Spinifex</i>)			
1284.	8710 <i>Sporobolus africanus</i> (<i>Parramatta Grass</i>)	Y		

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
1285.	635 <i>Sporobolus virginicus</i> (Marine Couch)			
1286.	4828 <i>Spyridium globulosum</i> (Basket Bush)			
1287.	<i>Squatina australis</i>			
1288.	6930 <i>Stachys arvensis</i> (Staggerweed)	Y		
1289.	9069 <i>Stackhousia huegelii</i>			
1290.	4733 <i>Stackhousia monogyna</i>			
1291.	24645 <i>Stagonopleura oculata</i> (Red-eared Firetail)			
1292.	2918 <i>Stellaria media</i> (Chickweed)	Y		
1293.	48113 <i>Stenella coeruleoalba</i> (Striped Dolphin)			
1294.	636 <i>Stenotaphrum secundatum</i> (Buffalo Grass)	Y		
1295.	24522 <i>Sterna bergii</i> (Crested Tern)			
1296.	25643 <i>Sterna hybrida</i> (Whiskered Tern)			
1297.	24533 <i>Sterna paradisaea</i> (Arctic Tern)			
1298.	48594 <i>Sternula nereis</i> (Fairy Tern)			
1299.	24329 <i>Stictonetta naevosa</i> (Freckled Duck)			
1300.	<i>Stigmatopora argus</i>			
1301.	24554 <i>Stipiturus malachurus</i> subsp. <i>westernensis</i> (Southern Emu-wren)			
1302.	2316 <i>Stirlingia latifolia</i> (Blueboy)			
1303.	25597 <i>Strepera versicolor</i> (Grey Currawong)			
1304.	25589 <i>Streptopelia chinensis</i> (Spotted Turtle-Dove)	Y		
1305.	25590 <i>Streptopelia senegalensis</i> (Laughing Turtle-Dove)	Y		
1306.	<i>Strongylura leiura</i>			
1307.	25518 <i>Strophurus spinigerus</i>			
1308.	7684 <i>Stylidium amoenum</i> (Lovely Triggerplant)			
1309.	25831 <i>Stylidium araeophyllum</i> (Stilt Walker)			
1310.	7693 <i>Stylidium brunonianum</i> (Pink Fountain Triggerplant)			
1311.	7696 <i>Stylidium calcaratum</i> (Book Triggerplant)			
1312.	7712 <i>Stylidium despectum</i> (Dwarf Triggerplant)			
1313.	7713 <i>Stylidium dichotomum</i> (Pins-and-needles)			
1314.	7717 <i>Stylidium divaricatum</i> (Daddy-long-legs)			
1315.	25829 <i>Stylidium neurophyllum</i> (Coastal Plain Triggerplant)			
1316.	7773 <i>Stylidium petiolare</i> (Horn Triggerplant)			
1317.	7774 <i>Stylidium piliferum</i> (Common Butterfly Triggerplant)			
1318.	33106 <i>Stylidium recurvum</i>			
1319.	7785 <i>Stylidium repens</i> (Matted Triggerplant)			
1320.	7790 <i>Stylidium roseoalatum</i> (Pink-wing Triggerplant)			
1321.	7798 <i>Stylidium schoenoides</i> (Cow Kicks)			
1322.	7806 <i>Stylidium utricularioides</i> (Pink Fan Triggerplant)			
1323.	48293 <i>Styphelia ciliosa</i>			
1324.	2639 <i>Suaeda australis</i> (Seablite)			
1325.	25902 <i>Symphotrichum squamatum</i> (Bushy Starwort)	Y		
1326.	2323 <i>Synaphea gracillima</i>			
1327.	16864 <i>Synaphea petiolaris</i> subsp. <i>petiolaris</i>			
1328.	2329 <i>Synaphea spinulosa</i>			
1329.	15532 <i>Synaphea spinulosa</i> subsp. <i>spinulosa</i>			
1330.	<i>Synchiropus papilio</i>			
1331.	25705 <i>Tachybaptus novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
1332.	24682 <i>Tachybaptus novaehollandiae</i> subsp. <i>novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
1333.	24207 <i>Tachyglossus aculeatus</i> (Short-beaked Echidna)			
1334.	25552 <i>Tadorna radjah</i> (Radjah Shelduck)			
1335.	24331 <i>Tadorna tadornoides</i> (Australian Shelduck, Mountain Duck)			
1336.	15741 <i>Tamarix aphylla</i> (Athel Tree)	Y		
1337.	<i>Tasmanicosa leuckartii</i>			
1338.	20135 <i>Taxandria linearifolia</i>			
1339.	33236 <i>Tecticornia halocnemoides</i> (Shrubby Samphire)			
1340.	33319 <i>Tecticornia indica</i> subsp. <i>bidens</i>			
1341.	31921 <i>Tecticornia leptoclada</i> subsp. <i>inclusa</i>			
1342.	33296 <i>Tecticornia pergranulata</i>			
1343.	33297 <i>Tecticornia pergranulata</i> subsp. <i>pergranulata</i> (Blackseed Samphire)			
1344.	31716 <i>Tecticornia syncarpa</i>			
1345.	4256 <i>Templetonia retusa</i> (Cockies Tongues)			
1346.	2791 <i>Tersonia cyathiflora</i> (Button Creeper)			
1347.	2820 <i>Tetragonia decumbens</i> (Sea Spinach)	Y		
1348.	1036 <i>Tetragonia octandra</i>			
1349.	27327 <i>Thamnoclonium dichotomum</i>			
1350.	<i>Thelymitra</i> aff. <i>pauciflora</i>			
1351.	1701 <i>Thelymitra antennifera</i> (Vanilla Orchid)			
1352.	10856 <i>Thelymitra benthamiana</i> (Leopard Orchid)			
1353.	1705 <i>Thelymitra crinita</i> (Blue Lady Orchid)			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
1354.	1707 <i>Thelymitra flexuosa</i> (Twisted Sun Orchid)			
1355.	1708 <i>Thelymitra fuscolutea</i> (Chestnut Sun Orchid)			
1356.	20730 <i>Thelymitra paludosa</i>			
1357.	<i>Thelymitra</i> sp.			
1358.	24845 <i>Threskiornis spinicollis</i> (Straw-necked Ibis)			
1359.	<i>Thunnus maccoyii</i>			
1360.	27331 <i>Thuretia quercifolia</i>			
1361.	1318 <i>Thysanotus arbuscula</i>			
1362.	1319 <i>Thysanotus arenarius</i>			
1363.	1338 <i>Thysanotus manglesianus</i> (Fringed Lily)			
1364.	1339 <i>Thysanotus multiflorus</i> (Many-flowered Fringe Lily)			
1365.	1343 <i>Thysanotus patersonii</i>			
1366.	1351 <i>Thysanotus sparteus</i>			
1367.	1354 <i>Thysanotus tenellus</i>			
1368.	1357 <i>Thysanotus thyrsoides</i>			
1369.	25203 <i>Tiliqua occipitalis</i> (Western Bluetongue)			
1370.	25519 <i>Tiliqua rugosa</i>			
1371.	25207 <i>Tiliqua rugosa</i> subsp. <i>rugosa</i>			
1372.	45845 <i>Tilletia viennotii</i>			
1373.	<i>Tillia davisae</i>			Y
1374.	25549 <i>Todiramphus sanctus</i> (Sacred Kingfisher)			
1375.	24309 <i>Todiramphus sanctus</i> subsp. <i>sanctus</i> (Sacred Kingfisher)			
1376.	32445 <i>Tortula muralis</i>			
1377.	<i>Trachinocephalus myops</i>			
1378.	<i>Trachurus novaezelandiae</i>			
1379.	1368 <i>Trachyandra divaricata</i>	Y		
1380.	6266 <i>Trachymene coerulea</i> (Blue Lace Flower)			
1381.	19041 <i>Trachymene coerulea</i> subsp. <i>coerulea</i>			
1382.	6280 <i>Trachymene pilosa</i> (Native Parsnip)			
1383.	4547 <i>Tremandra diffusa</i>			
1384.	1481 <i>Tribonanthes australis</i> (Southern Tiurndin)			
1385.	1485 <i>Tribonanthes violacea</i> (Violet Tiurndin)			
1386.	27338 <i>Trichodesmium erythraeum</i>			
1387.	25723 <i>Trichoglossus haematodus</i> (Rainbow Lorikeet)			
1388.	25521 <i>Trichosurus vulpecula</i> (Common Brushtail Possum)			
1389.	24158 <i>Trichosurus vulpecula</i> subsp. <i>vulpecula</i> (Common Brushtail Possum)			
1390.	1361 <i>Tricoryne elatior</i> (Yellow Autumn Lily)			
1391.	1363 <i>Tricoryne tenella</i>			
1392.	17145 <i>Trifolium angustifolium</i> var. <i>angustifolium</i>	Y		
1393.	4291 <i>Trifolium arvense</i> (Hare's Foot Clover)	Y		
1394.	17542 <i>Trifolium arvense</i> var. <i>arvense</i>	Y		
1395.	4292 <i>Trifolium campestre</i> (Hop Clover)	Y		
1396.	17763 <i>Trifolium campestre</i> var. <i>campestre</i> (Hop Clover)	Y		
1397.	4295 <i>Trifolium dubium</i> (Suckling Clover)	Y		
1398.	4297 <i>Trifolium glomeratum</i> (Cluster Clover)	Y		
1399.	17758 <i>Trifolium hybridum</i> var. <i>hybridum</i>	Y		
1400.	4309 <i>Trifolium scabrum</i> (Rough Clover)	Y		
1401.	4313 <i>Trifolium subterraneum</i> (Subterranean Clover)	Y		
1402.	4315 <i>Trifolium tomentosum</i> (Woolly Clover)	Y		
1403.	147 <i>Triglochin mucronata</i>			
1404.	151 <i>Triglochin striata</i>			
1405.	152 <i>Triglochin trichophora</i>			
1406.	38401 <i>Tritonia gladiolaris</i> (Lined Tritonia)	Y		
1407.	<i>Trygonoptera mucosa</i>			
1408.	<i>Trygonoptera personata</i>			
1409.	<i>Trygonorrhina fasciata</i>			
1410.	11665 <i>Trymalium ledifolium</i> var. <i>ledifolium</i>			
1411.	33418 <i>Trymalium odoratissimum</i> subsp. <i>odoratissimum</i>			
1412.	33438 <i>Trymalium odoratissimum</i> subsp. <i>trifidum</i>			
1413.	27345 <i>Turbinaria gracilis</i>			
1414.	48147 <i>Turnix varius</i> (Painted Button-quail)			
1415.	30954 <i>Tursiops aduncus</i> (Indo-Pacific Bottlenose Dolphin)			
1416.	24069 <i>Tursiops truncatus</i> (Bottlenose Dolphin)			
1417.	24852 <i>Tyto alba</i> subsp. <i>delicatula</i> (Barn Owl)			
1418.	27352 <i>Ulva lactuca</i>			
1419.	24983 <i>Underwoodisaurus milii</i> (Barking Gecko)			
1420.	<i>Urocampus carinirostris</i>			
1421.	<i>Urolophus lobatus</i>			
1422.	8255 <i>Ursinia anthemoides</i> (Ursinia)	Y		
1423.	38388 <i>Ursinia anthemoides</i> subsp. <i>anthemoides</i>	Y		

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
1424.	24386 <i>Vanellus tricolor</i> (Banded Lapwing)			
1425.	25218 <i>Varanus gouldii</i> (Bungarra or Sand Monitor)			
1426.	25225 <i>Varanus rosenbergi</i> (Heath Monitor)			
1427.	25526 <i>Varanus tristis</i> (Racehorse Monitor)			
1428.	25227 <i>Varanus tristis subsp. tristis</i> (Racehorse Monitor)			
1429.	7665 <i>Velleia trinervis</i>			
1430.	8257 <i>Vellereophyton dealbatum</i> (White Cudweed)	Y		
1431.	<i>Venator immansueta</i>			
1432.	7107 <i>Verbascum virgatum</i> (Twiggy Mullein)	Y		
1433.	15725 <i>Verbesina encelioides</i>	Y		
1434.	46275 <i>Verbesina encelioides var. encelioides</i> (Crownbeard, Wild Sunflower, Goldweed, South African Daisy)	Y		
1435.	15432 <i>Verticordia densiflora var. densiflora</i>			
1436.	6107 <i>Verticordia pennigera</i>			
1437.	12465 <i>Verticordia subulata</i>			
1438.	24206 <i>Vespadelus regulus</i> (Southern Forest Bat)			
1439.	4322 <i>Vicia sativa</i> (Common Vetch)	Y		
1440.	27360 <i>Vidalia spiralis</i>			
1441.	4325 <i>Viminaria juncea</i> (Swishbush, Koweda)			
1442.	24040 <i>Vulpes vulpes</i> (Red Fox)	Y		
1443.	722 <i>Vulpia bromoides</i> (Squirrel Tail Fescue)	Y		
1444.	11137 <i>Vulpia fasciculata</i>	Y		
1445.	724 <i>Vulpia myuros</i> (Rat's Tail Fescue)	Y		
1446.	33101 <i>Vulpia myuros forma myuros</i>	Y		
1447.	7384 <i>Wahlenbergia capensis</i> (Cape Bluebell)	Y		
1448.	7389 <i>Wahlenbergia preissii</i>			
1449.	8282 <i>Waitzia suaveolens</i> (Fragrant Waitzia)			
1450.	18108 <i>Watsonia meriana var. bulbifera</i>	Y		
1451.	18118 <i>Watsonia meriana var. meriana</i>	Y		
1452.	6939 <i>Westringia dampieri</i>			
1453.	6659 <i>Wilsonia humilis</i> (Silky Wilsonia)			
1454.	12072 <i>Wurmbea dioica subsp. alba</i>			
1455.	1398 <i>Wurmbea monantha</i>			
1456.	14545 <i>Xanthorrhoea brunonis subsp. semibarbata</i>			
1457.	1256 <i>Xanthorrhoea preissii</i> (Grass tree, Palga)			
1458.	6289 <i>Xanthosia huegelii</i>			
1459.	2331 <i>Xylomelum occidentale</i> (Woody Pear, Djandin)			
1460.	1049 <i>Zantedeschia aethiopica</i> (Arum Lily)	Y		
1461.	29603 <i>Zostera muelleri subsp. mucronata</i>			
1462.	25765 <i>Zosterops lateralis</i> (Grey-breasted White-eye, Silvereye)			
1463.	36218 <i>Zygodon menziesii</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.

APPENDIX 3

Protected Matters Search Tool Report



EPBC Act Protected Matters Report

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

Report created: 01-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:	None
Wetlands of International Importance (Ramsar)	2
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	2
Listed Threatened Species:	45
Listed Migratory Species:	28

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:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	32
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None
Habitat Critical to the Survival of Marine Turtles:	None

Extra Information

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

State and Territory Reserves:	5
Regional Forest Agreements:	None
Nationally Important Wetlands:	None
EPBC Act Referrals:	9
Key Ecological Features (Marine):	None
Biologically Important Areas:	None
Bioregional Assessments:	None
Geological and Bioregional Assessments:	None

Details

Matters of National Environmental Significance

Wetlands of International Importance (Ramsar Wetlands) [\[Resource Information \]](#)

Ramsar Site Name	Proximity	Buffer Status
Becher point wetlands	Within 10km of Ramsar site	In buffer area only
Peel-yalgorup system	Within 10km of 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
Banksia Woodlands of the Swan Coastal Plain ecological community	Endangered	Community likely to occur within area	In feature area
Tuart (Eucalyptus gomphocephala) Woodlands and Forests of the Swan Coastal Plain ecological community	Critically Endangered	Community likely to occur within area	In feature area

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			
Botaurus poiciloptilus Australasian Bittern [1001]	Endangered	Species or species habitat likely to occur within area	In feature area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Calyptorhynchus banksii naso Forest Red-tailed Black-Cockatoo, Karrak [67034]	Vulnerable	Species or species habitat known to occur within area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Diomedea amsterdamensis Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area	In buffer area only
Diomedea dabbenena Tristan Albatross [66471]	Endangered	Species or species habitat may occur within area	In buffer area only
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Falco hypoleucos Grey Falcon [929]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Leipoa ocellata Malleefowl [934]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Pachyptila turtur subantarctica Fairy Prion (southern) [64445]	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 likely to occur within area	In feature area
Sternula nereis nereis Australian Fairy Tern [82950]	Vulnerable	Species or species habitat may occur within area	In feature area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Zanda baudinii listed as Calyptorhynchus baudinii Baudin's Black-Cockatoo, Long-billed Black-cockatoo [87736]	Endangered	Species or species habitat likely to occur within area	In feature area
Zanda latirostris listed as Calyptorhynchus latirostris Carnaby's Black Cockatoo, Short-billed Black-cockatoo [87737]	Endangered	Species or species habitat known to 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			
Bettongia penicillata ogilbyi Woylie [66844]	Endangered	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
<i>Dasyurus geoffroii</i> Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat known to occur within area	In feature area
<i>Pseudocheirus occidentalis</i> Western Ringtail Possum, Ngwayir, Womp, Woder, Ngoor, Ngoolangit [25911]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
<i>Setonix brachyurus</i> Quokka [229]	Vulnerable	Species or species habitat may occur within area	In buffer area only
OTHER			
<i>Westralunio carteri</i> Carter's Freshwater Mussel, Freshwater Mussel [86266]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
PLANT			
<i>Andersonia gracilis</i> Slender Andersonia [14470]	Endangered	Species or species habitat may occur within area	In feature area
<i>Caladenia huegelii</i> King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid [7309]	Endangered	Species or species habitat may occur within area	In feature area
<i>Diuris drummondii</i> Tall Donkey Orchid [4365]	Vulnerable	Species or species habitat known to occur within area	In feature area
<i>Diuris micrantha</i> Dwarf Bee-orchid [55082]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<i>Diuris purdiei</i> Purdie's Donkey-orchid [12950]	Endangered	Species or species habitat likely to occur within area	In feature area
<i>Drakaea elastica</i> Glossy-leafed Hammer Orchid, Glossy-leafed Hammer Orchid, Warty Hammer Orchid [16753]	Endangered	Species or species habitat known to occur within area	In feature area
<i>Drakaea micrantha</i> Dwarf Hammer-orchid [56755]	Vulnerable	Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Eucalyptus x balanites Cadda Road Mallee, Cadda Mallee [87816]	Endangered	Species or species habitat may occur within area	In buffer area only
Synaphea sp. Fairbridge Farm (D. Papenfus 696) Selena's Synaphea [82881]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Synaphea sp. Pinjarra Plain (A.S. George 17182) [86878]	Endangered	Species or species habitat may occur within area	In buffer area only
Synaphea sp. Serpentine (G.R. Brand 103) [86879]	Critically Endangered	Species or species habitat may occur within area	In feature area

REPTILE

Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area	In buffer area only

SHARK

Sphyrna lewini Scalloped Hammerhead [85267]	Conservation Dependent	Species or species habitat likely to occur within area	In buffer area only
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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 may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area	In feature area
Diomedea amsterdamensis Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area	In buffer area only
Diomedea dabbenena Tristan Albatross [66471]	Endangered	Species or species habitat may occur within area	In buffer area only
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only

Migratory Marine Species

Scientific Name	Threatened Category	Presence Text	Buffer Status
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	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	Species or species habitat known to occur within area	In buffer area only
Migratory Terrestrial Species			
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may 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
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area	In feature area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat known to occur within area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Pandion haliaetus Osprey [952]		Breeding known to occur within area	In buffer area only
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area	In feature area

Other Matters Protected by the EPBC Act

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 may occur within area	In buffer area only
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area	In feature area
Bubulcus ibis as Ardea ibis Cattle Egret [66521]		Species or species habitat may occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area	In feature area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area overfly marine area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely 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
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Diomedea amsterdamensis Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area	In buffer area only
Diomedea dabbenena Tristan Albatross [66471]	Endangered	Species or species habitat may occur within area	In buffer area only
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within 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 may occur within area overfly marine area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Pachyptila turtur Fairy Prion [1066]		Species or species habitat likely to occur within area	In buffer area only
Pandion haliaetus Osprey [952]		Breeding known to occur within area	In buffer area only
Rostratula australis as Rostratula benghalensis (sensu lato) Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area overfly marine area	In feature area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Thinornis cucullatus as Thinornis rubricollis Hooded Dotterel, Hooded Plover [87735]		Species or species habitat may occur within area overfly marine area	In buffer area only
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area overfly marine area	In feature area

Reptile

Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area	In buffer area only

Extra Information

State and Territory Reserves			[Resource Information]
Protected Area Name	Reserve Type	State	Buffer Status
NTWA Bushland covenant (0077)	Conservation Covenant	WA	In buffer area only
NTWA Bushland covenant (0089)	Conservation Covenant	WA	In buffer area only
Unnamed WA44986	Nature Reserve	WA	In buffer area only
Unnamed WA50750	Nature Reserve	WA	In buffer area only
Unnamed WA51945	5(1)(h) Reserve	WA	In buffer area only

EPBC Act Referrals				[Resource Information]
Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action Construction of New Perth Bunbury Highway project	2005/2193	Controlled Action	Post-Approval	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action				
Residential Development Lot 518 Stock Road, Stakehill, WA	2019/8483	Controlled Action	Assessment Approach	In buffer area only
Not controlled action				
'Looping 10' gas transmission pipeline from Kwinana to Hopelands	2005/2212	Not Controlled Action	Completed	In feature area
Construction of Secret Harbour High School	2004/1489	Not Controlled Action	Completed	In feature area
Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia	2015/7522	Not Controlled Action	Completed	In feature area
INDIGO Central Submarine Telecommunications Cable	2017/8127	Not Controlled Action	Completed	In feature area
Kennedy Park Estate Residential Development	2003/1044	Not Controlled Action	Completed	In buffer area only
Not controlled action (particular manner)				
INDIGO Marine Cable Route Survey (INDIGO)	2017/7996	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
South West Metropolitan Railway Project	2003/1175	Not Controlled Action (Particular Manner)	Post-Approval	In feature area

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](#)
- [-Tasmanian Herbarium](#)
- [-State Herbarium of South Australia](#)
- [-Northern Territory Herbarium](#)
- [-Western Australian Herbarium](#)
- [-Australian National Herbarium, Canberra](#)
- [-University of New England](#)
- [-Ocean Biogeographic Information System](#)
- [-Australian Government, Department of Defence](#)
- [Forestry Corporation, NSW](#)
- [-Geoscience Australia](#)
- [-CSIRO](#)
- [-Australian Tropical Herbarium, Cairns](#)
- [-eBird Australia](#)
- [-Australian Government – Australian Antarctic Data Centre](#)
- [-Museum and Art Gallery of the Northern Territory](#)
- [-Australian Government National Environmental Science Program](#)
- [-Australian Institute of Marine Science](#)
- [-Reef Life Survey Australia](#)
- [-American Museum of Natural History](#)
- [-Queen Victoria Museum and Art Gallery, Inveresk, Tasmania](#)
- [-Tasmanian Museum and Art Gallery, Hobart, Tasmania](#)
- Other groups and individuals

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

Please feel free to provide feedback via the [Contact Us](#) page.

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APPENDIX 4

Conservation Codes

Conservation Codes for Western Australian Flora and Fauna

Specially protected fauna or flora are species* which have been adequately searched for and are deemed to be, in the wild, either rare, at risk of extinction, or otherwise in need of special protection, and have been gazetted as such. Conservation codes have been transitioned under regulations 170, 171 and 172 of the *Biodiversity Conservation Regulations 2018*.

T Threatened species – Schedules 1-4

Listed by order of the Minister as Threatened in the category of critically endangered, endangered or vulnerable under section 19(1), or is a rediscovered species to be regarded as threatened species under section 26(2) of the *Biodiversity Conservation Act 2016* (BC Act).

- **Threatened fauna** is that subset of ‘Specially Protected Fauna’ listed under schedules 1 to 3 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018* for Threatened Fauna.
- **Threatened flora** is that subset of ‘Rare Flora’ listed under schedules 1 to 3 of the *Wildlife Conservation (Rare Flora) Notice 2018* for Threatened Flora.

The assessment of the conservation status of these species is based on their national extent and ranked according to their level of threat using IUCN Red List categories and criteria as detailed below.

CR Critically endangered species

Threatened species considered to be “*facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with criteria set out in the ministerial guidelines*”.

Listed as critically endangered under section 19(1)(a) of the BC Act in accordance with the criteria set out in section 20 and the ministerial guidelines. Published under schedule 1 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018* for critically endangered fauna or the *Wildlife Conservation (Rare Flora) Notice 2018* for critically endangered flora.

EN Endangered species

Threatened species considered to be “*facing a very high risk of extinction in the wild in the near future, as determined in accordance with criteria set out in the ministerial guidelines*”.

Listed as endangered under section 19(1)(b) of the BC Act in accordance with the criteria set out in section 21 and the ministerial guidelines. Published under schedule 2 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018* for endangered fauna or the *Wildlife Conservation (Rare Flora) Notice 2018* for endangered flora.

VU Vulnerable species

Threatened species considered to be “*facing a high risk of extinction in the wild in the medium-term future, as determined in accordance with criteria set out in the ministerial guidelines*”.

Listed as vulnerable under section 19(1)(c) of the BC Act in accordance with the criteria set out in section 22 and the ministerial guidelines. Published under schedule 3 of the *Wildlife*

Conservation (Specially Protected Fauna) Notice 2018 for vulnerable fauna or the *Wildlife Conservation (Rare Flora) Notice 2018* for vulnerable flora.

EX Presumed extinct species

Species where “*there is no reasonable doubt that the last member of the species has died*”, and listing is otherwise in accordance with the ministerial guidelines (section 24 of the BC Act).

Published as presumed extinct under schedule 4 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018* for extinct fauna or the *Wildlife Conservation (Rare Flora) Notice 2018* for extinct flora.

EW Extinct in the wild species

Species that “*is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; and it has not been recorded in its known habitat or expected habitat, at appropriate seasons, anywhere in its past range, despite surveys over a time frame appropriate to its life cycle and form*”, and listing is otherwise in accordance with the ministerial guidelines (section 25 of the BC Act).

Currently there are no threatened fauna or threatened flora species listed as extinct in the wild. If listing of a species as extinct in the wild occurs, then a schedule will be added to the applicable notice.

Specially protected species

Listed by order of the Minister as specially protected under section 13(1) of the BC Act. Meeting one or more of the following categories: species of special conservation interest; migratory species; cetaceans; species subject to international agreement; or species otherwise in need of special protection.

Species that are listed as threatened species (critically endangered, endangered or vulnerable) or extinct species under the BC Act cannot also be listed as Specially Protected species.

MI Migratory species

Fauna that periodically or occasionally visit Australia or an external Territory or the exclusive economic zone; or the species is subject of an international agreement that relates to the protection of migratory species and that binds the Commonwealth; and listing is otherwise in accordance with the ministerial guidelines (section 15 of the BC Act).

Includes birds that are subject to an agreement between the government of Australia and the governments of Japan (JAMBA), China (CAMBA) and The Republic of Korea (ROKAMBA), and fauna subject to the Convention on the Conservation of Migratory Species of Wild Animals (Bonn Convention), an environmental treaty under the United Nations Environment Program. Migratory species listed under the BC Act are a subset of the migratory animals, that are known to visit Western Australia, protected under the international agreements or treaties, excluding species that are listed as Threatened species.

Published as migratory birds protected under an international agreement under schedule 5 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018*.

CD Species of special conservation interest (conservation dependent fauna)

Fauna of special conservation need being species dependent on ongoing conservation intervention to prevent it becoming eligible for listing as threatened, and listing is otherwise in accordance with the ministerial guidelines (section 14 of the BC Act).

Published as conservation dependent fauna under schedule 6 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018*.

OS Other specially protected species

Fauna otherwise in need of special protection to ensure their conservation, and listing is otherwise in accordance with the ministerial guidelines (section 18 of the BC Act).

Published as other specially protected fauna under schedule 7 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018*.

P Priority species

Possibly threatened species that do not meet survey criteria, or are otherwise data deficient, are added to the Priority Fauna or Priority Flora Lists under Priorities 1, 2 or 3. These three categories are ranked in order of priority for survey and evaluation of conservation status so that consideration can be given to their declaration as threatened fauna or flora.

Species that are adequately known, are rare but not threatened, or meet criteria for near threatened, or that have been recently removed from the threatened species or other specially protected fauna lists for other than taxonomic reasons, are placed in Priority 4. These species require regular monitoring.

Assessment of Priority codes is based on the Western Australian distribution of the species, unless the distribution in WA is part of a contiguous population extending into adjacent States, as defined by the known spread of locations.

Priority 1: Poorly-known species

Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes. Such species are in urgent need of further survey.

Priority 2: Poorly-known species

Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, e.g. national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes. Such species are in urgent need of further survey.

Priority 3: Poorly-known species

Species that are known from several locations, and the species does not appear to be under imminent threat, or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. Such species are in need of further survey.

Priority 4: Rare, Near Threatened and other species in need of monitoring

- (a) Rare. Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection but could be if present circumstances change. These species are usually represented on conservation lands.
- (b) Near Threatened. Species that are considered to have been adequately surveyed and that are close to qualifying for vulnerable but are not listed as Conservation Dependent.
- (c) Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.

*Species includes all taxa (plural of taxon - a classificatory group of any taxonomic rank, e.g. a family, genus, species or any infraspecific category i.e. subspecies or variety, or a distinct population).

Western Australian Ecological Communities

Threatened Ecological Communities

The BC Act provides for the statutory listing of threatened ecological communities (TECs) by the Minister.

Presumed Totally Destroyed (PD)

An ecological community that has been adequately searched for but for which no representative occurrences have been located. The community has been found to be totally destroyed or so extensively modified throughout its range that no occurrence of it is likely to recover its species composition and/or structure in the foreseeable future.

Critically Endangered (CR)

An ecological community that has been adequately surveyed and found to have been subject to a major contraction in area and/or that was originally of limited distribution and is facing severe modification or destruction throughout its range in the immediate future, or is already severely degraded throughout its range but capable of being substantially restored or rehabilitated.

Endangered (EN)

An ecological community that has been adequately surveyed and found to have been subject to a major contraction in area and/or was originally of limited distribution and is in danger of significant modification throughout its range or severe modification or destruction over most of its range in the near future.

Vulnerable (VU)

An ecological community that has been adequately surveyed and is found to be declining and/or has declined in distribution and/or condition and whose ultimate security has not yet been assured and/or a community that is still widespread but is believed likely to move into a category of higher threat in the near future if threatening processes continue or begin operating throughout its range.

Priority Ecological Communities

Possible threatened ecological communities that do not meet survey criteria or that are not adequately defined are added to the Priority Ecological Community List under priorities 1, 2 and 3. These three categories are ranked in order of priority for survey and/or definition of the community. Ecological communities that are adequately known, and are rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list, are placed in Priority 4. These ecological communities require regular monitoring. Conservation Dependent ecological communities are placed in Priority 5.

Priority One: Poorly-known ecological communities

Ecological communities that are known from very few occurrences with a very restricted distribution (generally ≤ 5 occurrences or a total area of ≤ 100 ha).

Occurrences are believed to be under threat either due to limited extent, or being on lands under immediate threat (e.g. within agricultural or pastoral lands, urban areas, active mineral leases) or for which current threats exist. May include communities with occurrences on protected lands. Communities may be included if they are comparatively well-known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under immediate threat from known threatening processes across their range.

Priority Two: Poorly-known ecological communities

Communities that are known from few occurrences with a restricted distribution (generally ≤ 10 occurrences or a total area of ≤ 200 ha). At least some occurrences are not believed to be under immediate threat (within approximately 10 years) of destruction or degradation. Communities may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under threat from known threatening processes.

Priority Three: Poorly known ecological communities

- (i) Communities that are known from several to many occurrences, a significant number or area of which are not under threat of habitat destruction or degradation or:
- (ii) communities known from a few widespread occurrences, which are either large or with significant remaining areas of habitat in which other occurrences may occur, much of it not under imminent threat (within approximately 10 years), or;
- (iii) munities made up of large, and/or widespread occurrences, that may or may not be represented in the reserve system, but are under threat of modification across much of their range from processes such as grazing by domestic and/or feral stock, inappropriate fire regimes, clearing, hydrological change etc.

Communities may be included if they are comparatively well known from several localities but do not meet adequacy of survey requirements and/or are not well defined, and known threatening processes exist that could affect them.

Priority Four: Ecological communities that are adequately known, rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list. These communities require regular monitoring.

- (i) Rare. Ecological communities known from few occurrences that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These communities are usually represented on conservation lands.
- (ii) Near Threatened. Ecological communities that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for a higher threat category.
- (iii) Ecological communities that have been removed from the list of threatened communities during the past five years.

Priority Five: Conservation Dependent ecological communities

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

Commonwealth of Australia Conservation Codes

Threatened Flora and Fauna

Threatened fauna and flora may be listed under Section 178 of the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) in any one of the following six categories:

Extinct

A native species is eligible to be included in the extinct category at a particular time if, at that time, there is no reasonable doubt that the last member of the species has died.

Extinct in the wild

A native species is eligible to be included in the extinct in the wild category at a particular time if, at that time:

- a) it is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; or
- b) it has not been recorded in its known and/or expected habitat, at appropriate seasons, anywhere in its past range, despite exhaustive surveys over a time frame appropriate to its life cycle and form.

Critically endangered

A taxon is Critically Endangered when the best available evidence indicates that it meets any of the five criteria for the category identified in Part 7.01 of the EPBC Regulations, and it is therefore considered to be facing an extremely high risk of extinction in the wild.

Endangered

A taxon is Endangered when the best available evidence indicates that it meets any of the five criteria for the category identified in Part 7.01 of the EPBC Regulations, and it is therefore considered to be facing a very high risk of extinction in the wild.

Vulnerable

A taxon is Vulnerable when the best available evidence indicates that it meets any of the five criteria for the category identified in Part 7.01 of the EPBC Regulations, and it is therefore considered to be facing a high risk of extinction in the wild.

Conservation dependent

A native species is eligible to be included in the conservation dependent category at a particular time if, at that time:

- a) the species is the focus of a specific conservation program the cessation of which would result in the species becoming vulnerable, endangered or critically endangered; or
- b) the following subparagraphs are satisfied:
 - i. the species is a species of fish;

- ii. the species is the focus of a plan of management that provides for management actions necessary to stop the decline of, and support the recovery of, the species so that its chances of long term survival in nature are maximised;
- iii. the plan of management is in force under a law of the Commonwealth or of a State or Territory;
- iv. cessation of the plan of management would adversely affect the conservation status of the species.

The EPBC Act does not provide for listing in a data deficient category. Where sufficient data (evidence) is unavailable to allow assessment by the Threatened Species Scientific Committee against the criteria for listing, the species are found to be ineligible. A recommendation is made to the Minister to not include the species in any category under the EPBC Act. For reasons of transparency and to inform future research, the Threatened Species Scientific Committee publishes the names of those species found to be data deficient. As data deficient is not a listing category under the EPBC Act, this has no statutory implications and the species is not considered to be listed under the EPBC Act.

Threatened Ecological Communities

Threatened Ecological communities under the EPBC Act are listed in three categories.

Critically endangered

If, at that time, an ecological community is facing an extremely high risk of extinction in the wild in the immediate future (indicative timeframe being the next 10 years).

Endangered

If, at that time, an ecological community is not critically endangered but is facing a very high risk of extinction in the wild in the near future (indicative timeframe being the next 20 years).

Vulnerable

If, at that time, an ecological community is not critically endangered or endangered, but is facing a high risk of extinction in the wild in the medium-term future (indicative timeframe being the next 50 years).

APPENDIX 5
TEC/PEC Database Search

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29461	121779	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld16061		200	No	118778	31033
29462	121780	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld16062		200	No	118779	31034
29476	121794	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld16076		200	No	118793	31048
29481	121799	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld16081		200	No	118798	31053
29482	121800	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld16082		200	No	118799	31054
29487	121805	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld16087		200	No	118804	31059
29488	121806	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld16088		200	No	118805	31060
29489	121807	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld16089		200	No	118806	31061
29490	121808	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld16090		200	No	118807	31062
29491	121809	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld16091		200	No	118808	31063
29492	121810	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld16092		200	No	118809	31064
29493	121811	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld16093		200	No	118810	31065
29495	121813	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld16095		200	No	118812	31067
29496	121814	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld16096		200	No	118813	31068
29497	121815	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld16097		200	No	118814	31069
29498	121816	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld16098		200	No	118815	31070
29499	121817	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld16099		200	No	118816	31071
29500	121818	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld16100		200	No	118817	31072
29501	121819	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld16101		200	No	118818	31073
29502	121820	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld16102		200	No	118819	31074
29503	121821	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld16103		200	No	118820	31075
29508	121826	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld16108		200	No	118825	31080
2827	5706	Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh	Priority 3	Vulnerable	1	GoegrupLake01		500	No	3392	2981
2828	5707	Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh	Priority 3	Vulnerable	1	GoegrupLake02		500	No	3393	2982
2855	5735	Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh	Priority 3	Vulnerable	1	BlackLake01		500	No	3420	3009
31306	124846	SCP08	Herb rich shrublands in clay pans (floristic community type 8 as originally described in Gibson et al. (1994))	Vulnerable	Critically Endangered	1	Peel01		300	No	121860	32964
31307	124847	SCP08	Herb rich shrublands in clay pans (floristic community type 8 as originally described in Gibson et al. (1994))	Vulnerable	Critically Endangered	1	Peel02		300	No	121861	32965
31308	124848	SCP08	Herb rich shrublands in clay pans (floristic community type 8 as originally described in Gibson et al. (1994))	Vulnerable	Critically Endangered	1	Peel03		300	No	121862	32966
31309	124849	SCP08	Herb rich shrublands in clay pans (floristic community type 8 as originally described in Gibson et al. (1994))	Vulnerable	Critically Endangered	1	Peel04		300	No	121863	32967
311	765	SCP15	Forests and woodlands of deep seasonal wetlands of the Swan Coastal Plain (floristic community type 15 as originally described in Gibson et al. (1994))	Vulnerable		1	yang01		500	No	430	313
296	24	SCP19a	Sedgeland in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	3	PB01	PtBecher01SOUTH	2000	No	414	298
291	25	SCP19a	Sedgeland in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	PB06		2000	No	409	293
448	614	SCP19a	Sedgeland in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	PtKennedy98		2000	No	586	454
270	615	SCP19a	Sedgeland in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	PtKennedy101		2000	No	387	272
446	616	SCP19a	Sedgeland in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	PtKennedy103		2000	No	584	452
677	621	SCP19a	Sedgeland in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	LARKHILL158		2000	No	849	686
678	622	SCP19a	Sedgeland in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	LARKHILL160		2000	No	850	687

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302	623	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	LARKHILL22		2000	No	420	304
303	624	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	LARKHILL23		2000	No	421	305
305	626	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	LARKHILL26		2000	No	423	307
308	629	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	SECRETHARBOUR16		2000	No	426	310
426	632	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	SECRETHARBOUR42		2000	No	564	432
276	641	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	PtKennedy113		2000	No	393	278
282	643	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	PtKennedy120		2000	No	399	284
449	824	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	Pt Kennedy 97		2000	No	587	455
758	833	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	Pt Kennedy 96		2000	No	938	769
285	836	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	Pt Kennedy 116		2000	No	402	287
289	837	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	Pt Kennedy 123		2000	No	406	291
14408	845	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	Pt Kennedy 122		2000	No	407	14652
283	903	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	Pt Kennedy 119		2000	No	400	285
271	904	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	Pt Kennedy new 01		2000	No	388	273
294	941	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	MYPPoint Becher01		2000	No	412	296
297	943	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	MYPPoint Becher02		2000	No	415	299
299	944	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	MYPPoint Becher03		2000	No	417	301
300	945	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	MYPPoint Becher04		2000	No	418	302
521	946	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	MYPPoint Becher05		2000	No	671	527

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445	947	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	MYPoint Becher06		2000	No	583	451
447	1922	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	PtKennedy124		2000	No	585	453
279	1925	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	PtKennedy115		2000	No	396	281
450	1926	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	PtKennedy125		2000	No	588	456
680	2028	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	LARKHILL18		2000	No	852	689
684	2033	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	LARKHILL152		2000	No	857	693
683	2034	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	LARKHILL21		2000	No	856	692
685	2035	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	LARKHILL150		2000	No	858	694
1505	3422	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	MYGB03		2000	No	2027	1551
1506	3968	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	MYGB02		2000	No	2028	1552
1507	3969	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	MYGB04		2000	No	2029	1553
1508	3970	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	MYGB05		2000	No	2030	1554
1509	3971	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	MYGB06		2000	No	2031	1555
1510	3972	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	MYGB07		2000	No	2032	1556
1511	3983	SCP19a	Sedgelands in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in in Gibson et al. (1994))	Critically Endangered	Endangered	1	MYGB01		2000	No	2033	1557
275	618	SCP19b	Woodlands over sedgelands in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	1	PtKennedy104		2000	No	392	277
293	619	SCP19b	Woodlands over sedgelands in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	1	PtKennedy28		2000	No	411	295
301	620	SCP19b	Woodlands over sedgelands in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	1	LARKHILL30		2000	No	419	303
304	625	SCP19b	Woodlands over sedgelands in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	1	LARKHILL24		2000	No	422	306
306	627	SCP19b	Woodlands over sedgelands in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	1	LARKHILL27		2000	No	424	308
307	628	SCP19b	Woodlands over sedgelands in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	1	LARKHILL29		2000	No	425	309

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681	630	SCP19b	Woodlands over sedgeland in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	3	GOLDENBAY PLOT1	GOLDENBAY01	2000	No	853	690
427	631	SCP19b	Woodlands over sedgeland in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	1	SECRETHARBOUR46		2000	No	565	433
280	642	SCP19b	Woodlands over sedgeland in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	1	PtKennedy121		2000	No	397	282
759	821	SCP19b	Woodlands over sedgeland in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	1	Pt Kennedy 100		2000	No	939	770
290	838	SCP19b	Woodlands over sedgeland in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	1	Pt Kennedy 25		2000	No	408	292
284	902	SCP19b	Woodlands over sedgeland in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	1	Pt Kennedy 118		2000	No	401	286
248	922	SCP19b	Woodlands over sedgeland in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	2	Walyungup04	Walyungup05	2000	No	365	250
309	1793	SCP19b	Woodlands over sedgeland in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	1	Secret Harbour 19		2000	No	427	311
310	1795	SCP19b	Woodlands over sedgeland in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	1	Secret Harbour 169		2000	No	428	312
429	1914	SCP19b	Woodlands over sedgeland in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	1	SECRETHARBOUR01		2000	No	567	435
679	2027	SCP19b	Woodlands over sedgeland in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	1	LARKHILL17		2000	No	851	688
686	2032	SCP19b	Woodlands over sedgeland in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	1	LARKHILL13		2000	No	859	695
1852	4398	SCP19b	Woodlands over sedgeland in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	1	GOLDENBAY02		2000	No	2390	1904
2014	2651	SCP24	Northern Spearwood shrublands and woodlands	Priority 3		1	SINGLETON01		500	No	1489	2068
2018	4534	SCP24	Northern Spearwood shrublands and woodlands	Priority 3		1	SINGLETON05		500	No	2477	2072
123452	3120	SCP25	Southern Eucalyptus gomphocephala-Agonis flexuosa woodlands	Priority 3		1	SEW6		200	No	0	1039
123453	3121	SCP25	Southern Eucalyptus gomphocephala-Agonis flexuosa woodlands	Priority 3		1	SEW7		200	No	0	1040
123454	3122	SCP25	Southern Eucalyptus gomphocephala-Agonis flexuosa woodlands	Priority 3		1	SEW8		200	No	0	1041
123468	3132	SCP25	Southern Eucalyptus gomphocephala-Agonis flexuosa woodlands	Priority 3		1	PAGA06		500	No	0	1067
123469	3133	SCP25	Southern Eucalyptus gomphocephala-Agonis flexuosa woodlands	Priority 3		1	PAGA08		500	No	0	1068
2015	4531	SCP29a	Coastal shrublands on shallow sands	Priority 3		1	SINGLETON02		500	No	2474	2069
2016	4532	SCP29a	Coastal shrublands on shallow sands	Priority 3		1	SINGLETON03		500	No	2475	2070
2017	4533	SCP29a	Coastal shrublands on shallow sands	Priority 3		1	SINGLETON04		500	No	2476	2071
117732	125372	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0271		500	No	122441	120759
117733	125373	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0272		500	No	122442	120760
117734	125374	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0273		500	No	122443	120761
117735	125375	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0274		500	No	122444	120762
117736	125376	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0275		500	No	122445	120763
117737	125377	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0276		500	No	122446	120764
117738	125378	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0277		500	No	122447	120765
117739	125379	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0278		500	No	122448	120766
117740	125380	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0279		500	No	122449	120767
117741	125381	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0280		500	No	122450	120768
117742	125382	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0281		500	No	122451	120769

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117743	125383	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0282		500	No	122452	120770
117744	125384	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0283		500	No	122453	120771
117745	125385	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0284		500	No	122454	120772
117746	125386	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0285		500	No	122455	120773
117747	125387	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0286		500	No	122456	120774
117748	125388	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0287		500	No	122457	120775
117749	125389	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0288		500	No	122458	120776
117750	125390	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0289		500	No	122459	120777
117751	125391	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0290		500	No	122460	120778
117752	125392	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0291		500	No	122461	120779
117753	125393	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0292		500	No	122462	120780
117754	125394	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0293		500	No	122463	120781
117755	125395	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0294		500	No	122464	120782
117756	125396	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0295		500	No	122465	120783
117875	125515	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0414		500	No	122584	120902
117876	125516	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0415		500	No	122585	120903
117877	125517	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0416		500	No	122586	120904
117878	125518	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0417		500	No	122587	120905
117879	125519	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0418		500	No	122588	120906
118078	125718	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0617		500	No	122787	121105
118079	125719	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0618		500	No	122788	121106
118083	125723	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0622		500	No	122792	121110
118561	126201	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1100		500	No	123270	121588
118563	126203	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1102		500	No	123272	121590
118564	126204	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1103		500	No	123273	121591
118565	126205	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1104		500	No	123274	121592
118566	126206	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1105		500	No	123275	121593
118567	126207	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1106		500	No	123276	121594
118568	126208	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1107		500	No	123277	121595

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118602	126242	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1141		500	No	123311	121629
118603	126243	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1142		500	No	123312	121630
118608	126248	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1147		500	No	123317	121635
118609	126249	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1148		500	No	123318	121636
118610	126250	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1149		500	No	123319	121637
118611	126251	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1150		500	No	123320	121638
118612	126252	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1151		500	No	123321	121639
118613	126253	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1152		500	No	123322	121640
118614	126254	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1153		500	No	123323	121641
118860	126500	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1399		500	No	123569	121887
118861	126501	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1400		500	No	123570	121888
118862	126502	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1401		500	No	123571	121889
118863	126503	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1402		500	No	123572	121890
118864	126504	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1403		500	No	123573	121891
118865	126505	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1404		500	No	123574	121892
118866	126506	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1405		500	No	123575	121893
118867	126507	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1406		500	No	123576	121894
118868	126508	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1407		500	No	123577	121895
118869	126509	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1408		500	No	123578	121896
118910	126550	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1449		500	No	123619	121937
119024	126664	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1563		500	No	123733	122051

APPENDIX 6

Quadrat Data

QUADRAT K1

50 391606 E 6409184 N

Vegetation: *Astartea affinis* Closed Heath
Condition: Excellent
Soil Type: Black peaty sand, moist
Landform: Flat
Date: 5.10.21
Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Astartea affinis</i>	1.6	90
<i>Aotus gracillima</i>	1	<1
<i>Lepidosperma longitudinale</i>	0.5	20
<i>Hypocalymma angustifolium</i>	0.3	5
* <i>Briza maxima</i>	0.2	<1
<i>Lobelia anceps</i>	0.2	<1
<i>Phyllangium paradoxum</i>	<0.1	<1
* <i>Lotus subbiflorus</i>	<0.1	<1
* <i>Hypochaeris glabra</i>	Flat	<1
* <i>Taraxacum officinale</i>	Flat	<1

* introduced species

QUADRAT K2

50 391862 E 6409187 N

Vegetation: *Melaleuca preissiana* Low Woodland over *Kunzea glabrescens* Tall Open Shrubland over *Astartea affinis*/*Regelia ciliata* Open Heath
Condition: Excellent
Soil Type: Black peaty sand
Landform: Flat
Date: 5.10.21
Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Melaleuca preissiana</i>	6	25
<i>Kunzea glabrescens</i>	4	2
<i>Astartea affinis</i>	3	40
<i>Regelia ciliata</i>	1.8	5
<i>Xanthorrhoea preissii</i>	1	4
<i>Xanthorrhoea brunonis</i>	1	<1
<i>Pericalymma ellipticum</i>	0.5	<1
<i>Hypocalymma angustifolia</i>	0.4	15
<i>Lepidosperma longitudinale</i>	0.4	10
* <i>Briza maxima</i>	0.2	<1
<i>Stylidium repens</i>	0.1	<1
* <i>Ornithopus compressus</i>	0.1	<1
<i>Trachymene pilosa</i>	<.1	<1
* <i>Hypochaeris glabra</i>	Flat	2
* <i>Taraxacum officinale</i>	Flat	<1

* introduced species

QUADRAT K3

50 392088 E 6408911 N

Vegetation: *Xylomelum occidentale* Low Open Woodland over *Hibbertia hypericoides* Low Shrubland
Condition: Good
Soil Type: Brown sand
Landform: Flat
Date: 5.10.21
Recorder: Paul van der Moezel



Quadrat (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Xylomelum occidentale</i>	6	50
<i>Kunzea glabrescens</i>	2.1	2
<i>Hibbertia hypericoides</i>	0.5	1
<i>Podotrochea gnaphalioides</i>	0.3	<1
* <i>Sonchus oleraceus</i>	0.3	<1
* <i>Romulea rosea</i>	0.2	<1
* <i>Ursinia anthemoides</i>	0.2	<1
* <i>Ehrharta longiflora</i>	0.1	90
* <i>Arctotheca calendula</i>	0.1	5
* <i>Carpobrotus edulis</i>	0.1	1
<i>Trachymene pilosa</i>	0.1	<1
* <i>Orobanche minor</i>	0.1	<1
<i>Crassula colorata</i>	<0.1	<1
* <i>Hypochaeris glabra</i>	Flat	10
<i>Hardenbergia comptoniana</i>	Climber	<1

* introduced species

QUADRAT K4

50 392366 E 6409120 N

Vegetation: *Eucalyptus marginata* Woodland over *Xylomelum occidentale* Low
Open Woodland over *Hibbertia hypericoides* Low Shrubland

Condition: Good

Soil Type: Brown sand

Landform: Top of low dune

Date: 5.10.21

Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Eucalyptus marginata</i>	15	20
<i>Xylomelum occidentale</i>	5	15
<i>Jacksonia furcellata</i>	1	<1
<i>Stirlingia latifolia</i>	0.7	<1
<i>Hibbertia hypericoides</i>	0.5	15
<i>Dasypogon bromeliifolius</i>	0.5	1
<i>Lomandra caespitosa</i>	0.5	<1
<i>Burchardia congesta</i>	0.4	<1
* <i>Ursinia anthemoides</i>	0.3	1
<i>Podotrochea gnaphalioides</i>	0.3	1
<i>Patersonia occidentalis</i>	0.3	<1
* <i>Petrorhagia dubia</i>	0.2	<1
* <i>Ehrharta longifolia</i>	0.1	10
* <i>Carpobrotus edulis</i>	0.1	10
* <i>Arctotheca calendula</i>	0.1	1

SPECIES	HEIGHT (m)	COVER (%)
<i>Trachymene pilosa</i>	0.1	1
* <i>Trifolium hirtum</i>	0.1	<1
* <i>Ornithopus compressus</i>	<0.1	<1
* <i>Hypochaeris glabra</i>	Flat	20
* <i>Taraxacum officinale</i>	Flat	<1
<i>Hardenbergia comptoniana</i>	Climber	<1

* introduced species

QUADRAT K5

50 392354 E 6408947 N

Vegetation: *Kunzea glabrescens* Tall Shrubland over weeds
Condition: Good
Soil Type: Dark grey sand, moist
Landform: Flat
Date: 5.10.21
Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Kunzea glabrescens</i>	4	25
<i>Jacksonia furcellata</i>	0.5	<1
<i>Gompholobium tomentosum</i>	0.4	<1
<i>Aotus procumbens</i>	0.3	<1
* <i>Ursinia anthemoides</i>	0.3	<1
<i>Podotrochea gnaphalioides</i>	0.3	<1
* <i>Disa bracteata</i>	0.2	<1
<i>Caladenia flava</i>	0.1	<1
<i>Trachymene pilosa</i>	0.1	<1
* <i>Arctotheca calendula</i>	0.1	<1
* <i>Aira caryophylla</i>	0.1	<1
<i>Quinetia urvillei</i>	<0.1	1
<i>Crassula colorata</i>	<0.1	<1
* <i>Hypochaeris glabra</i>	Flat	5

* introduced species

QUADRAT K6

50 392343 E 6408626 N

Vegetation: *Melaleuca preissiana* Low Open Forest over *Kunzea glabrescens* Tall Open Scrub over *Lepidosperma longitudinale*/*Dielsia stenostachya* Sedgeland
Condition: Excellent
Soil Type: Black sand, moist
Landform: Flat
Date: 5.10.21
Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Melaleuca preissiana</i>	6	10
<i>Kunzea glabrescens</i>	4	40
<i>Acacia pulchella</i>	1.2	2
<i>Regelia ciliata</i>	1.1	2
<i>Lepidosperma longitudinale</i>	0.4	40
<i>Astartea affinis</i>	0.4	<1
<i>Dielsia stenostachya</i>	0.3	25
<i>Hypocalymma angustifolia</i>	0.2	<1
<i>Pterostylis glebosa</i>	0.1	<1
* <i>Ornithopus compressus</i>	0.1	<1
* <i>Lotus subbiflorus</i>	0.1	<1
<i>Drosera glanduligera</i>	<0.1	<1
* <i>Hypochaeris glabra</i>	Flat	1
* <i>Taraxacum officinale</i>	Flat	<1

* introduced species

QUADRAT K7

50 391771 E 6408262 N

Vegetation: *Kunzea glabrescens* Tall Open Scrub over *Hypocalymma angustifolium* Low Open Shrubland
Condition: Good
Soil Type: Dark brown peaty sand
Landform: Flat
Date: 5.10.21
Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Kunzea glabrescens</i>	5	50
<i>Astartea affinis</i>	1.6	5
<i>Regelia ciliata</i>	1.5	1
<i>Hypocalymma angustifolia</i>	0.3	2
<i>Euchilopsis linearis</i>	0.3	<1
<i>Dielsia stenostachya</i>	0.2	1
<i>Podotrochea gnaphalioides</i>	0.2	<1
<i>Caladenia flava</i>	0.1	<1
* <i>Ornithopus compressus</i>	0.1	<1
* <i>Lotus subbiflorus</i>	<0.1	<1
* <i>Hypochaeris glabra</i>	Flat	<1

* introduced species

QUADRAT K8

50 391480 E 6408788 N

Vegetation: *Eucalyptus rudis*/*Corymbia calophylla* Open Forest over *Melaleuca preissiana* Low Open Woodland over *Astartea affinis* Shrubland
Condition: Excellent
Soil Type: Dark brown sandy loam, moist
Landform: Flat
Date: 5.10.21
Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Eucalyptus rudis</i>	22	30
<i>Corymbia calophylla</i>	12	5
<i>Melaleuca preissiana</i>	7	10
<i>Astartea affinis</i>	2	4
<i>Xanthorrhoea preissii</i>	1-1.7	5
<i>Aotus gracillima</i>	1.2	1
<i>Hypocalymma angustifolium</i>	0.5	1
<i>Lepidosperma longitudinale</i>	0.4	50
<i>Sowerbaea laxiflora</i>	0.4	<1
<i>Boronia dichotoma</i>	0.4	<1
<i>Dielsia stenostachya</i>	0.3	20
<i>Dampiera linearis</i>	0.3	<1
<i>Pterostylis glebosa</i>	0.2	<1
* <i>Zantedeschia aethiopica</i>	0.1	<1
<i>Chamaescilla corymbosa</i>	<0.1	<1
* <i>Hypochoeris glabra</i>	Flat	<1

* introduced species

QUADRAT K9

50 390698 E 6409260 N

Vegetation: *Melaleuca preissiana* Low Open Forest over *Astartea affinis* Tall Shrubland over *Dielsia stenostachya* Sedgeland
Condition: Excellent
Soil Type: Black loamy sand, moist
Landform: Flat
Date: 5.10.21
Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Melaleuca preissiana</i>	10	60
<i>Astartea affinis</i>	3	10
<i>Aotus gracillima</i>	1.6	5
<i>Dielsia stenostachya</i>	1	25
<i>Lepidosperma longitudinale</i>	0.4	10
<i>Hypocalymma angustifolium</i>	0.3	1
* <i>Briza maxima</i>	0.2	<1
* <i>Rumex acetosella</i>	0.1	<1
* <i>Hypochoeris glabra</i>	Flat	<1

* introduced species

QUADRAT K10

50 389799 E 6407918 N

Vegetation: *Melaleuca preissiana* Low Open Woodland over *Astartea affinis*
Closed Heath

Condition: Good-Very Good

Soil Type: Black peaty sand, moist

Landform: Flat

Date: 14.10.21

Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Melaleuca preissiana</i>	4	5
<i>Astartea affinis</i>	2	80
<i>Kunzea glabrescens</i>	1.9	1
* <i>Anthoxanthum odoratum</i>	0.3	2
* <i>Disa bracteata</i>	0.3	<1
* <i>Briza maxima</i>	0.2	1
<i>Thelymitra antennifera</i>	0.2	<1
* <i>Lotus subbiflorus</i>	0.1	10
* <i>Hypochaeris glabra</i>	Flat	<1

* introduced species

QUADRAT K11

50 390145 E 6408262 N

Vegetation: *Eucalyptus globulus* Low Open Woodland over *Kunzea glabrescens*
Tall Open Scrub over *Astartea affinis* Open Shrubland

Condition: Degraded

Soil Type: Black sand

Landform: Flat

Date: 14.10.21

Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
* <i>Eucalyptus globulus</i>	6	10
<i>Kunzea glabrescens</i>	3	30
<i>Astartea affinis</i>	1.5	2
<i>Lepidosperma longitudinale</i>	0.5	2
<i>Hypocalymma angustifolia</i>	0.5	<1
* <i>Anthoxanthum odoratum</i>	0.3	5
* <i>Briza maxima</i>	0.2	1
* <i>Ursinia anthemoides</i>	0.2	<1
* <i>Lotus subbiflorus</i>	0.1	<1
<i>Drosera glanduligera</i>	<0.1	<1
<i>Crassula colorata</i>	<0.1	<1
* <i>Hypochaeris glabra</i>	Flat	<1

* introduced species

QUADRAT K12

50 390239 E 6408764 N

Vegetation: *Melaleuca raphiophylla* Low Open Forest over *Juncus pallidus* Very Open Sedgeland
Condition: Degraded
Soil Type: Black peaty sand
Landform: Flat
Date: 14.10.21
Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Melaleuca raphiophylla</i>	8	40
<i>Juncus pallidus</i>	1	2
<i>Astartea affinis</i>	0.5	<1
<i>Lobelia anceps</i>	0.4	<1
* <i>Moraea flaccida</i>	0.4	<1
<i>Macaherina juncea</i>	0.3	<1
* <i>Arctotheca calendula</i>	0.1	2
<i>Cotula coronopifolia</i>	0.1	25
* <i>Lotus subbiflorus</i>	0.1	20
<i>Aphelia brizula</i>	<0.1	1
<i>Isolepis prolifera</i>	<0.1	1

* introduced species

QUADRAT K13

50 390391 E 6408895 N

Vegetation: *Eucalyptus globulus* Woodland over *Kunzea glabrescens* Open Shrubland
Condition: Completely Degraded
Soil Type: Dark grey sand
Landform: Flat
Date: 14.10.21
Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
* <i>Eucalyptus globulus</i>	18	20
<i>Kunzea glabrescens</i>	1-2	10
<i>Astartea affinis</i>	1	1
* <i>Juncus microcephalus</i>	0.5	<1
* <i>Briza maxima</i>	0.2	<1
* <i>Ursinia anthemoides</i>	0.2	<1
* <i>Anthoxanthum odoratum</i>	0.2	<1
* <i>Disa bracteata</i>	0.2	<1
<i>Trachymene pilosa</i>	0.1	1
<i>Isolepis marginata</i>	0.1	<1
<i>Aphelia brizula</i>	<0.1	2
<i>Crassula colorata</i>	<0.1	1
* <i>Lotus subbiflorus</i>	<0.1	<1
<i>Gratiola pubescens</i>	<0.1	<1
* <i>Hypochaeris glabra</i>	Flat	<1

* introduced species

QUADRAT K14

50 390706 E 6408840 N

Vegetation: *Melaleuca preissiana* Open Forest over *Kunzea glabrescens* Tall Open Shrubland over *Lepidosperma longitudinale* Sedgeland
Condition: Excellent
Soil Type: Dark brown sandy loam, moist
Landform: Flat
Date: 14.10.21
Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Melaleuca preissiana</i>	15	60
<i>Kunzea glabrescens</i>	4	5
<i>Xanthorrhoea preissii</i>	1	1
<i>Pultenaea reticulata</i>	1	<1
<i>Astartea affinis</i>	0.7	1
<i>Lepidosperma longitudinale</i>	0.6	50
<i>Thelymitra antennifera</i>	0.3	<1
<i>Microtis media</i>	0.3	<1
* <i>Briza maxima</i>	0.3	<1
<i>Caladenia latifolia</i>	0.3	<1
* <i>Lotus subbiflorus</i>	0.1	<1
<i>Caladenia flava</i>	0.1	<1
* <i>Hypochaeris glabra</i>	Flat	<1

* introduced species

QUADRAT K15

50 390553 E 6408131 N

Vegetation: *Melaleuca raphiophylla* Low Open Forest over *Juncus pallidus* Open Sedgeland
Condition: Degraded
Soil Type: Black peaty sand, inundated
Landform: Flat
Date: 14.10.21
Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Melaleuca raphiophylla</i>	10	70
<i>Juncus pallidus</i>	1	15
<i>Baumea juncea</i>	0.6	5
* <i>Lolium perenne</i>	0.3	20
* <i>Moraea flaccida</i>	0.3	1
* <i>Bromus diandrus</i>	0.3	1
* <i>Rumex vesicaria</i>	0.3	<1
* <i>Lotus subbiflorus</i>	0.1	40
<i>Isolepis prolifera</i>	0.1	1
* <i>Trifolium dubium</i>	0.1	<1
* <i>Arctotheca calendula</i>	0.1	<1
* <i>Romulea rosea</i>	0.1	<1
<i>Cotula coronopifolia</i>	<0.1	<1
* <i>Taraxacum officinale</i>	Flat	<1

* introduced species

QUADRAT K16

50 390461 E 6407468 N

Vegetation: *Eucalyptus globulus* Woodland over *Astartea affinis* Tall Shrubland
Condition: Completely Degraded
Soil Type: Dark brown loamy sand, moist
Landform: Flat
Date: 14.10.21
Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
* <i>Eucalyptus globulus</i>	18	25
<i>Astartea affinis</i>	2.1	25
<i>Dielsia stenostachya</i>	1.1	1
<i>Juncus pallidus</i>	0.4	4
<i>Isolepis marginata</i>	0.1	2
* <i>Lotus subbiflorus</i>	0.1	<1
<i>Aphelia brizula</i>	<0.1	2

* introduced species

QUADRAT K17

50 390439 E 6405500 N

Vegetation: *Eucalyptus globulus* Woodland over *Kunzea glabrescens* Tall Shrubland over *Astartea affinis* Shrubland
Condition: Completely Degraded
Soil Type: Dark brown-black loamy sand, moist
Landform: Flat
Date: 15.10.21
Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Eucalyptus globulus</i>	15	10
<i>Kunzea glabrescens</i>	3	15
<i>Astartea affinis</i>	1.8	15
<i>Juncus pallidus</i>	0.6	5
<i>Hypocalymma angustifolium</i>	0.6	2
* <i>Lolium rigidum</i>	0.4	<1
* <i>Anthoxanthum odoratum</i>	0.3	20
<i>Podotheca gnaphalioides</i>	0.2	<1
* <i>Ursinia anthemoides</i>	0.2	<1
<i>Microtis media</i>	0.2	<1
<i>Crassula colorata</i>	0.1	1
<i>Cotula coronopifolia</i>	0.1	<1
* <i>Lotus subbiflorus</i>	<0.1	1
<i>Drosera glanduligera</i>	<0.1	<1
* <i>Arctotheca calendula</i>	<0.1	<1
<i>Isolepis marginata</i>	<0.1	<1
* <i>Hypochaeris glabra</i>	Flat	2

* introduced species

QUADRAT K18

50 390627 E 6406112 N

Vegetation: *Melaleuca preissiana* Low Open Woodland over *Astartea affinis*
Open Heath
Condition: Completely Degraded
Soil Type: Dark brownish sandy loam
Landform: Flat
Date: 15.10.21
Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Melaleuca preissiana</i>	10	10
<i>Astartea affinis</i>	1.6-2	50
<i>Juncus pallidus</i>	1	2
* <i>Anthoxanthum odoratum</i>	0.3	10
* <i>Rumex acetosella</i>	0.3	10
* <i>Romulea rosea</i>	0.2	2
* <i>Ehrharta longiflora</i>	0.2	1
* <i>Cenchrus clandestinus</i>	0.1	50
<i>Isolepis marginata</i>	0.1	<1
* <i>Lotus subbiflorus</i>	<0.1	3
* <i>Arctotheca calendula</i>	<0.1	2
* <i>Taraxacum officinale</i>	Flat	<1

* introduced species

QUADRAT K19

50 390572 E 6405558 N

Vegetation: *Eucalyptus rudis* Open Forest over *Melaleuca preissiana* Low Open Forest over *Astartea affinis* Tall Shrubland over *Lepidosperma longitudinale* Sedgeland

Condition: Good

Soil Type: Dark brown loamy sand

Landform: Flat

Date: 15.10.21

Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Eucalyptus rudis</i>	27	50
<i>Melaleuca preissiana</i>	12	5
<i>Astartea affinis</i>	2.5	20
<i>Lepidosperma longitudinale</i>	0.5	40
* <i>Bromus diandrus</i>	0.3	1
<i>Caladenia latifolia</i>	0.2	<1
<i>Pterostylis glebosa</i>	0.2	<1
<i>Microtis media</i>	0.1	<1
* <i>Lotus subbiflorus</i>	<0.1	<1
<i>Aphelia brizula</i>	<0.1	<1
* <i>Hypochoeris radicata</i>	Flat	<1

* introduced species

QUADRAT K20

50 391140 E 6405515 N

Vegetation: *Kunzea glabrescens* Tall Shrubland over *Astartea affinis* Shrubland
Juncus pallidus Open Sedgeland

Condition: Completely Degraded

Soil Type: Dark brownish sandy loam

Landform: Flat

Date: 15.10.21

Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Kunzea glabrescens</i>	4	10
<i>Astartea affinis</i>	1.8	25
<i>Juncus pallidus</i>	1	20
* <i>Anthoxanthum odoratum</i>	0.3	10
* <i>Rumex acetosella</i>	0.3	10
* <i>Ursinia anthemoides</i>	0.3	<1
* <i>Arctotheca calendula</i>	0.2	1
* <i>Lotus subbiflorus</i>	0.1	10
* <i>Hypochaeris glabra</i>	Flat	30

* introduced species

QUADRAT K21

50 391343 E 6405955 N

Vegetation: *Kunzea glabrescens* Tall Shrubland over *Astartea affinis* Shrubland
Juncus pallidus Open Sedgeland

Condition: Degraded

Soil Type: Brownish-black peaty sand

Landform: Flat

Date: 15.10.21

Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Kunzea glabrescens</i>	3.5	20
<i>Astartea affinis</i>	1.7	10
<i>Juncus pallidus</i>	1	15
* <i>Anthoxanthum odoratum</i>	0.3	20
* <i>Ursinia anthemoides</i>	0.3	1
* <i>Rumex acetosella</i>	0.2	2
* <i>Arctotheca calendula</i>	0.2	1
<i>Podotheca gnaphalioides</i>	0.2	<1
* <i>Lotus subbiflorus</i>	0.1	2
<i>Drosera glanduligera</i>	<0.1	<1
* <i>Hypochaeris glabra</i>	Flat	10

* introduced species

QUADRAT K22

50 392463 E 6405705 N

Vegetation: *Eucalyptus rudis* Open Forest over *Kunzea glabrescens* Tall Shrubland over *Lepidosperma longitudinale* Very Open Sedgeland
Condition: Good
Soil Type: Dark brown sandy loam
Landform: Flat
Date: 11.11.21
Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Eucalyptus rudis</i>	15	40
<i>Kunzea glabrescens</i>	4	20
<i>Astartea affinis</i>	1.6	1
<i>Lepidosperma longitudinale</i>	1	10
* <i>Bromus sp</i>	0.3	1
<i>Microtis media</i>	0.3	<1
* <i>Lotus subbiflorus</i>	0.1	<1
<i>Cotula coronopifolia</i>	0.1	<q
* <i>Hypochaeris glabra</i>	Flat	<1
<i>Hardenbergia comptoniana</i>	Climber	<1

* introduced species

QUADRAT K23

50 392550 E 6406360 N

Vegetation: *Kunzea glabrescens* Tall Open Scrub over *Astartea affinis* Open Heath
Condition: Good
Soil Type: Black sand, moist
Landform: Flat
Date: 11.11.21
Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Kunzea glabrescens</i>	4	25
<i>Astartea affinis</i>	1.7	50
* <i>Anthoxanthum odoratum</i>	0.3	10
* <i>Lotus subbiflorus</i>	0.1	15
<i>Aphelia brizula</i>	<0.1	1
<i>Isolepis marginata</i>	<0.1	<1
<i>Drosera glanduligera</i>	Flat	<1

* introduced species

QUADRAT K24

50 392536 E 6406566 N

Vegetation: *Eucalyptus rudis* Open Forest over *Melaleuca raphiophylla* Low
Open Forest over *Lepidosperma longitudinale* Sedgeland

Condition: Good

Soil Type: Clay, inundated

Landform: Flat

Date: 11.11.21

Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Eucalyptus rudis</i>	18	25
<i>Melaleuca preissiana</i>	10	60
<i>Juncus pallidus</i>	1	5
<i>Lepidosperma longitudinale</i>	0.5	25
* <i>Cenchrus clandestinus</i>	0.1	10
* <i>Lotus subbiflorus</i>	0.1	10
<i>Cotula coronopifolia</i>	0.1	10

* introduced species

QUADRAT K25

50 392386 E 6406270 N

Vegetation: *Melaleuca raphiophylla* Low Open Forest over *Melaleuca teretifolia*/*Kunzea glabrescens* Tall Shrubland over weeds
Condition: Good
Soil Type: Black Clay, damp
Landform: Flat
Date: 11.11.21
Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Melaleuca raphiophylla</i>	8	40
<i>Melaleuca teretifolia</i>	3	5
<i>Kunzea glabrescens</i>	2	10
<i>Astartea affinis</i>	1.5	5
<i>Juncus pallidus</i>	0.8	5
* <i>Lolium perenne</i>	0.5	<1
* <i>Anthoxanthum odoratum</i>	0.4	50
* <i>Ehrharta longiflora</i>	0.3	1
<i>Thelymitra vulgaris</i>	0.3	<1
* <i>Sonchus asper</i>	0.3	<1
* <i>Lotus subbiflorus</i>	0.2	25
* <i>Ornithopus compressus</i>	0.2	5
* <i>Briza maxima</i>	0.2	1
<i>Aphelia brizula</i>	0.1	10
* <i>Rumex acetosella</i>	0.1	2

SPECIES	HEIGHT (m)	COVER (%)
<i>*Taraxacum officinale</i>	Flat	2

* introduced species

QUADRAT K26

50 388808 E 6405977 N

Vegetation: *Astartea affinis* Closed Tall Scrub over *Juncus pallidus* Very Open Sedgeland
Condition: Degraded
Soil Type: Black sandy clay, moist
Landform: Flat
Date: 11.11.21
Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Astartea affinis</i>	2.1	75
<i>Juncus pallidus</i>	1	2
* <i>Anthoxanthum odoratum</i>	0.3	25
* <i>Lolium rigidum</i>	0.3	5
* <i>Disa bracteata</i>	0.3	<1
* <i>Lotus subbiflorus</i>	0.2	2
* <i>Hypochaeris glabra</i>	Flat	5
* <i>Taraxacum officinale</i>	Flat	2

* introduced species

QUADRAT K27

50 388715 E 6405801 N

Vegetation: *Eucalyptus rudis* Open Forest over *Astartea affinis* Open Shrubland
Condition: Completely Degraded
Soil Type: Black sandy clay
Landform: Flat
Date: 11.11.21
Recorder: Paul van der Moezel



QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Eucalyptus rudis</i>	15	25
<i>Kunzea glabrescens</i>	2	1
<i>Astartea affinis</i>	1.6	5
* <i>Rumex vesicaria</i>	0.5	<1
* <i>Lolium perenne</i>	0.4	70
* <i>Anthoxanthum odoratum</i>	0.3	5
* <i>Bromus diandrus</i>	0.3	1
* <i>Lotus subbiflorus</i>	0.1	5
* <i>Rumex acetosella</i>	0.1	1

* introduced species

APPENDIX 7
Flora Species List

Lot 9500 Keralup Species List

* - non-native

PTERIDOPHYTES

DENNSTAEDTIACEAE
Pteridium esculentum

SALVINACEAE
Azolla rubra

MONOCOTYLEDONS

ARACEAE
**Zantedeschia aethiopica*

ASPARAGACEAE
Laxmannia squarrosa
Lomandra caespitosa
Sowerbaea laxiflora

CENTROLEPIDACEAE
Aphelia brizula

COLCHICACEAE
Burchardia bairdiae
Burchardia congesta

CYPERACEAE
Isolepis marginata
**Isolepis prolifera*
Lepidosperma longitudinale
Machaerina juncea

DASYPOGONACEAE
Dasypogon bromeliifolius

HAEMODORACEAE
Phlebocarya ciliata

HEMEROCALLIDACEAE
Chamaescilla corymbosa

IRIDACEAE
**Gladiolus caryophyllaceus*
**Moraea flaccida*
Patersonia occidentalis
**Romulea rosea*

JUNCACEAE
Juncus pallidus
**Juncus microcephalus*

MENYANTHACEAE
Ornduffia albiflora

ORCHIDACEAE
Caladenia flava
Caladenia latifolia
**Disa bracteata*
Microtis media subsp. *media*
Pterostylis glebosa
Thelymitra antennifera
Thelymitra vulgaris

POACEAE
**Aira caryophyllea*
**Anthoxanthum odoratum*
**Briza maxima*
**Bromus diandrus*
**Cenchrus clandestinus*
**Ehrharta longiflora*
**Holcus lanatus*
**Hordeum leporinum*
**Lolium perenne*
**Lolium rigidum*
**Paspalum dilatatum*
**Vulpia myuros*

RESTIONACEAE
Desmocladus flexuosus
Dielsia stenostachya

XANTHORRHOEACEAE
Xanthorrhoea brunonis
Xanthorrhoea preissii

DICOTYLEDONS

AIZOACEAE
**Carpobrotus edulis*

APIACEAE

Eryngium pinnatifidum
Homalosciadium homalocarpum

ARALIACEAE

Trachymene pilosa

ASTERACEAE

**Arctotheca calendula*
Cotula coronopifolia
**Erigeron bonariensis*
**Hypochaeris glabra*
Podotheca gnaphalioides
Quinetia urvillei
Siloxerus humifusus
**Sonchus asper*
**Sonchus oleraceus*
**Taraxacum officinale*
**Ursinia anthemoides*

CAMPANULACEAE

Lobelia anceps
**Wahlenbergia capensis*

CARYOPHYLLACEAE

**Petrorhagia dubia*

COMMELINACEAE

Cartonema philydroides

CRASSULACEAE

Crassula colorata

DILLENIACEAE

Hibbertia hypericoides
Hibbertia stellaris
Hibbertia subvaginata
Hibbertia vaginata

DROSERACEAE

Drosera glanduligera
Drosera menziesii
Drosera stolonifera

ERICACEAE

Leucopogon australis
Styphelia pallida

FABACEAE

Acacia cochlearis
Acacia pulchella
Aotus gracillima
Aotus procumbens
Daviesia decurrens
Euchilopsis linearis
Gompholobium tomentosum
Hardenbergia comptoniana
Jacksonia furcellata
Jacksonia gracillima
Kennedia prostrata
**Lotus subbiflorus*
**Ornithopus compressus*
Pultenaea reticulata
**Trifolium dubium*
**Trifolium hirtum*

GOODENIACEAE

Dampiera linearis

LAMIACEAE

Hemiandra pungens

LAURACEAE

Cassytha racemosa

LOGANIACEAE

Phyllangium paradoxum

MYRTACEAE

Astartea affinis
Babbingtonia camphorosmae
Corymbia calophylla
**Eucalyptus globulus*
Eucalyptus marginata
Eucalyptus rudis
Hypocalymma angustifolium
Kunzea glabrescens
**Leptospermum laevigatum*
Melaleuca preissiana
Melaleuca raphiophylla
Melaleuca teretifolia
Pericalymma ellipticum
Regelia ciliata
Scholtzia involucrata

OROBANCHACEAE

**Orobanche minor*

OXALIDACEAE

**Oxalis purpurea*

PLANTAGINACEAE

Gratiola pubescens

POLYGONACEAE

**Rumex acetosella*

**Rumex vesicaria*

PRIMULACEAE

**Lysimachia arvensis*

PROTEACEAE

Adenanthos cygnorum

Stirlingia latifolia

Xylomelum occidentale

RUBIACEAE

**Galium murale*

Opercularia hispidula

RUTACEAE

Boronia dichotoma

Boronia purdieana

SOLANACEAE

Solanum symonii

STYLIDIACEAE

Stylidium paludicola

Stylidium repens

Stylidium ?scariosum

APPENDIX 8
DBCA Fauna Database Search

SCI_NAME	COM_NAME	CLASS	WA_LISTING	WA_status	EPBCstatus	Date	DAY	MONTH	YEAR	SOURCE_ID	SOURCE	CERTAINTY	OBS_METH OD	OBS_TYPE	COUNT
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	18/11/2007	18	11	2007	487889 794	BIRDATLAS2				0
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	18/08/2010	18	8	2010	5068237 794	BIRDATLAS2				0
Tringa glareola	Wood sandpiper	BIRD	Specially Protected - migratory	MI	MI	12/02/2012	12	2	2012	5099211 154	BIRDATLAS2				0
Calidris ruficollis	Red-necked stint	BIRD	Specially Protected - migratory	MI	MI	12/02/2012	12	2	2012	5099211 162	BIRDATLAS2				0
Calidris acuminata	Sharp-tailed sandpiper	BIRD	Specially Protected - migratory	MI	MI	12/02/2012	12	2	2012	5099211 163	BIRDATLAS2				0
Calidris subminuta	Long-toed Stint	BIRD	Specially Protected - migratory	MI	MI	12/02/2012	12	2	2012	5099211 965	BIRDATLAS2				0
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	24/06/2011	24	6	2011	5099492 794	BIRDATLAS2				0
Tringa glareola	Wood sandpiper	BIRD	Specially Protected - migratory	MI	MI	22/10/2010	22	10	2010	5106898 154	BIRDATLAS2				0
Calidris ferruginea	curlew sandpiper	BIRD	Threatened - Critically endangered	CR	CR	22/10/2010	22	10	2010	5106898 161	BIRDATLAS2				0
Calidris ruficollis	Red-necked stint	BIRD	Specially Protected - migratory	MI	MI	22/10/2010	22	10	2010	5106898 162	BIRDATLAS2				0
Calidris acuminata	Sharp-tailed sandpiper	BIRD	Specially Protected - migratory	MI	MI	22/10/2010	22	10	2010	5106898 163	BIRDATLAS2				0
Calidris subminuta	Long-toed Stint	BIRD	Specially Protected - migratory	MI	MI	22/10/2010	22	10	2010	5106898 965	BIRDATLAS2				0
Tringa glareola	Wood sandpiper	BIRD	Specially Protected - migratory	MI	MI	25/09/2009	25	9	2009	770723 154	BIRDATLAS2				0
Calidris acuminata	Sharp-tailed sandpiper	BIRD	Specially Protected - migratory	MI	MI	25/09/2009	25	9	2009	770723 163	BIRDATLAS2				0
Tringa nebularia	Common greenshank, greenshank	BIRD	Specially Protected - migratory	MI	MI	15/12/1999	15	12	1999	80888 158	BIRDATLAS2				0
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	21/07/2013	21	7	2013	75	CARNABYSROOSTS	Very Certain	Targeted survey	Remote sensing	0
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		25/10/2009	25	10	2009	73270	FAUNASURVEY	Certain	Survey	Unknown	4
Phascogale tapoatafa wambenger	South-western brush-tailed phascogale, wambenger	MAMMAL	Specially Protected - conservation dependent	CD		29/04/2010	29	4	2010	161218	FAUNASURVEY	Certain	Survey	Unknown	1
Phascogale tapoatafa wambenger	South-western brush-tailed phascogale, wambenger	MAMMAL	Specially Protected - conservation dependent	CD		18/11/2010	18	11	2010	161219	FAUNASURVEY	Certain	Survey	Unknown	1
Dasyurus geoffroi	Chuditch, western quoll	MAMMAL	Threatened - Vulnerable	VU	VU	30/04/2010	30	4	2010	161266	FAUNASURVEY	Certain	Survey	Unknown	1
Dasyurus geoffroi	Chuditch, western quoll	MAMMAL	Threatened - Vulnerable	VU	VU	29/04/2010	29	4	2010	161267	FAUNASURVEY	Certain	Survey	Unknown	1
Phascogale tapoatafa wambenger	South-western brush-tailed phascogale, wambenger	MAMMAL	Specially Protected - conservation dependent	CD		24/10/2010	24	10	2010	161303	FAUNASURVEY	Certain	Survey	Unknown	1
Phascogale tapoatafa wambenger	South-western brush-tailed phascogale, wambenger	MAMMAL	Specially Protected - conservation dependent	CD		25/10/2010	25	10	2010	161304	FAUNASURVEY	Certain	Survey	Unknown	1
Phascogale tapoatafa wambenger	South-western brush-tailed phascogale, wambenger	MAMMAL	Specially Protected - conservation dependent	CD		25/10/2010	25	10	2010	161305	FAUNASURVEY	Certain	Survey	Unknown	1
Phascogale tapoatafa wambenger	South-western brush-tailed phascogale, wambenger	MAMMAL	Specially Protected - conservation dependent	CD		26/11/2010	26	11	2010	161306	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		7/05/2010	7	5	2010	161343	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		7/05/2010	7	5	2010	161344	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		7/05/2010	7	5	2010	161345	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		7/05/2010	7	5	2010	161346	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		5/05/2010	5	5	2010	161347	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		7/05/2010	7	5	2010	161348	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		5/05/2010	5	5	2010	161349	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		7/05/2010	7	5	2010	161350	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		5/05/2010	5	5	2010	161351	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		7/05/2010	7	5	2010	161352	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		6/05/2010	6	5	2010	161353	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		5/05/2010	5	5	2010	161354	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		30/04/2010	30	4	2010	161355	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		26/10/2010	26	10	2010	161356	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		26/10/2010	26	10	2010	161357	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		27/10/2010	27	10	2010	161358	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		28/10/2010	28	10	2010	161359	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		26/10/2010	26	10	2010	161360	FAUNASURVEY	Certain	Survey	Unknown	1

SCI_NAME	COM_NAME	CLASS	WA_LISTING	WA_status	EPBCstatus	Date	DAY	MONTH	YEAR	SOURCE_ID	SOURCE	CERTAINTY	OBS_METH OD	OBS_TYPE	COUNT
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		26/10/2010	26	10	2010	161361	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		26/10/2010	26	10	2010	161362	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		26/10/2010	26	10	2010	161363	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		28/10/2010	28	10	2010	161364	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		27/10/2010	27	10	2010	161365	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		26/10/2010	26	10	2010	161366	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		28/10/2010	28	10	2010	161367	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		26/10/2010	26	10	2010	161368	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		29/10/2010	29	10	2010	161369	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		26/10/2010	26	10	2010	161370	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		28/10/2010	28	10	2010	161371	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		27/10/2010	27	10	2010	161372	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		26/10/2010	26	10	2010	161373	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		28/10/2010	28	10	2010	161374	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		28/10/2010	28	10	2010	161375	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		29/10/2010	29	10	2010	161376	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		27/10/2010	27	10	2010	161377	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		28/10/2010	28	10	2010	161378	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		27/10/2010	27	10	2010	161379	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		26/10/2010	26	10	2010	161380	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		27/10/2010	27	10	2010	161381	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		29/10/2010	29	10	2010	161382	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		28/10/2010	28	10	2010	161383	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		23/10/2010	23	10	2010	161384	FAUNASURVEY	Certain	Survey	Unknown	1
Phascogale tapoatafa wambenger	South-western brush-tailed phascogale, wambenger	MAMMAL	Specially Protected - conservation dependent	CD		4/10/2011	4	10	2011	301619	FAUNASURVEY	Certain	Survey	Unknown	1
Phascogale tapoatafa wambenger	South-western brush-tailed phascogale, wambenger	MAMMAL	Specially Protected - conservation dependent	CD		7/10/2011	7	10	2011	301620	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		22/09/2011	22	9	2011	301676	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		21/09/2011	21	9	2011	301677	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		20/09/2011	20	9	2011	301678	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		22/09/2011	22	9	2011	301679	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		20/09/2011	20	9	2011	301680	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		22/09/2011	22	9	2011	301681	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		20/09/2011	20	9	2011	301682	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		20/09/2011	20	9	2011	301683	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		20/09/2011	20	9	2011	301684	FAUNASURVEY	Certain	Survey	Unknown	1

SCI_NAME	COM_NAME	CLASS	WA_LISTING	WA_status	EPBCstatus	Date	DAY	MONTH	YEAR	SOURCE_ID	SOURCE	CERTAINTY	OBS_METH OD	OBS_TYPE	COUNT
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		22/09/2011	22	9	2011	301685	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		21/09/2011	21	9	2011	301686	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		21/09/2011	21	9	2011	301687	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		23/09/2011	23	9	2011	301688	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		20/09/2011	20	9	2011	301689	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		21/09/2011	21	9	2011	301690	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		20/09/2011	20	9	2011	301691	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		21/09/2011	21	9	2011	301692	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		23/09/2011	23	9	2011	301693	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		20/09/2011	20	9	2011	301694	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		22/09/2011	22	9	2011	301695	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		21/09/2011	21	9	2011	301696	FAUNASURVEY	Certain	Survey	Unknown	1
Phascogale tapoatafa wambenger	South-western brush-tailed phascogale, wambenger	MAMMAL	Specially Protected - conservation dependent	CD		25/10/2012	25	10	2012	536402	FAUNASURVEY	Certain	Survey	Unknown	1
Dasyurus geoffroii	Chuditch, western quoll	MAMMAL	Threatened - Vulnerable	VU	VU	22/05/2012	22	5	2012	536403	FAUNASURVEY	Certain	Survey	Unknown	1
Phascogale tapoatafa wambenger	South-western brush-tailed phascogale, wambenger	MAMMAL	Specially Protected - conservation dependent	CD		1/08/2012	1	8	2012	536416	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		2/05/2012	2	5	2012	536417	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		23/05/2012	23	5	2012	536418	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		23/05/2012	23	5	2012	536419	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		24/05/2012	24	5	2012	536420	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		24/05/2012	24	5	2012	536421	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		23/05/2012	23	5	2012	536422	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		23/05/2012	23	5	2012	536423	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		24/05/2012	24	5	2012	536424	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		22/05/2012	22	5	2012	536425	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		22/05/2012	22	5	2012	536426	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		23/05/2012	23	5	2012	536427	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		22/05/2012	22	5	2012	536428	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		22/05/2012	22	5	2012	536429	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		24/05/2012	24	5	2012	536430	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		7/08/2012	7	8	2012	536431	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		7/08/2012	7	8	2012	536432	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		7/08/2012	7	8	2012	536433	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		9/08/2012	9	8	2012	536434	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		10/08/2012	10	8	2012	536435	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		7/08/2012	7	8	2012	536436	FAUNASURVEY	Certain	Survey	Unknown	1

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Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		7/08/2012	7	8	2012	536437	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		7/08/2012	7	8	2012	536438	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		7/08/2012	7	8	2012	536439	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		7/08/2012	7	8	2012	536440	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		10/08/2012	10	8	2012	536441	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		7/08/2012	7	8	2012	536442	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		7/08/2012	7	8	2012	536443	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		7/08/2012	7	8	2012	536444	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		25/10/2012	25	10	2012	536445	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		2/11/2012	2	11	2012	536446	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		2/11/2012	2	11	2012	536447	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		1/11/2012	1	11	2012	536448	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		1/11/2012	1	11	2012	536449	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		1/11/2012	1	11	2012	536450	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		30/10/2012	30	10	2012	536451	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		2/11/2012	2	11	2012	536452	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		30/10/2012	30	10	2012	536453	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		31/10/2012	31	10	2012	536454	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		31/10/2012	31	10	2012	536455	FAUNASURVEY	Certain	Survey	Unknown	1
Lerista lineata	Perth slider, lined skink	REPTILE	Priority	P3		6/03/2012	6	3	2012	677434	FAUNASURVEY	Certain	Survey	Unknown	1
Phascogale tapoatafa wambenger	South-western brush-tailed phascogale, wambenger	MAMMAL	Specially Protected - conservation dependent	CD		21/06/2013	21	6	2013	724212	FAUNASURVEY	Certain	Survey	Unknown	1
Phascogale tapoatafa wambenger	South-western brush-tailed phascogale, wambenger	MAMMAL	Specially Protected - conservation dependent	CD		20/06/2013	20	6	2013	724213	FAUNASURVEY	Certain	Survey	Unknown	1
Phascogale tapoatafa wambenger	South-western brush-tailed phascogale, wambenger	MAMMAL	Specially Protected - conservation dependent	CD		19/06/2013	19	6	2013	724214	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		21/06/2013	21	6	2013	724215	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		20/06/2013	20	6	2013	724216	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		21/06/2013	21	6	2013	724217	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		18/06/2013	18	6	2013	724218	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		21/06/2013	21	6	2013	724219	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		20/06/2013	20	6	2013	724220	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		27/06/2013	27	6	2013	724221	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		27/06/2013	27	6	2013	724222	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		25/06/2013	25	6	2013	724223	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		26/06/2013	26	6	2013	724224	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		25/06/2013	25	6	2013	724225	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		27/06/2013	27	6	2013	724226	FAUNASURVEY	Certain	Survey	Unknown	1

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Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		27/06/2013	27	6	2013	724227	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		26/06/2013	26	6	2013	724228	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		28/06/2013	28	6	2013	724229	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		26/06/2013	26	6	2013	724230	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		27/06/2013	27	6	2013	724231	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		28/06/2013	28	6	2013	724232	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		26/06/2013	26	6	2013	724233	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		26/06/2013	26	6	2013	724234	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		27/06/2013	27	6	2013	724235	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		27/06/2013	27	6	2013	724236	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		28/06/2013	28	6	2013	724237	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		25/06/2013	25	6	2013	724238	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		28/06/2013	28	6	2013	724239	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		7/05/2014	7	5	2014	911166	FAUNASURVEY	Certain	Survey	Unknown	1
Isoodon fusciventer	Quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		17/09/2014	17	9	2014	911175	FAUNASURVEY	Certain	Survey	Unknown	10
Isoodon fusciventer	quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		10/11/1997	10	11	1997	5945	TFAUNA	Certain	Survey	Caught or trapped	1
Isoodon fusciventer	quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		10/11/1997	10	11	1997	5946	TFAUNA	Certain	Survey	Caught or trapped	1
Isoodon fusciventer	quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		13/11/1997	13	11	1997	5947	TFAUNA	Certain	Survey	Caught or trapped	1
Isoodon fusciventer	quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		1/02/2009	1	2	2009	18529	TFAUNA	Certain	Survey	Caught or trapped	6
Isoodon fusciventer	quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		22/05/2007	22	5	2007	18614	TFAUNA	Certain	Survey	Caught or trapped	3
Isoodon fusciventer	quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		23/05/2007	23	5	2007	18615	TFAUNA	Certain	Survey	Caught or trapped	4
Isoodon fusciventer	quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		24/05/2007	24	5	2007	18616	TFAUNA	Certain	Survey	Caught or trapped	2
Phascogale tapoatafa wambenger	south-western brush-tailed phascogale, wambenger	MAMMAL	Specially Protected - conservation dependent	CD		12/03/2006	12	3	2006	19137	TFAUNA	Certain	Opportunistic sighting	Dead	1
Dasyurus geoffroi	chuditch, western quoll	MAMMAL	Threatened - Vulnerable	VU	VU	29/04/2010	29	4	2010	19144	TFAUNA	Certain	Survey	Caught or trapped	1
Phascogale tapoatafa wambenger	south-western brush-tailed phascogale, wambenger	MAMMAL	Specially Protected - conservation dependent	CD		29/04/2010	29	4	2010	19145	TFAUNA	Certain	Opportunistic sighting	Day sighting	1
Phascogale tapoatafa wambenger	south-western brush-tailed phascogale, wambenger	MAMMAL	Specially Protected - conservation dependent	CD		12/03/2006	12	3	2006	19316	TFAUNA	Certain	Opportunistic sighting	Dead	1
Phascogale tapoatafa wambenger	south-western brush-tailed phascogale, wambenger	MAMMAL	Specially Protected - conservation dependent	CD		18/03/2011	18	3	2011	19371	TFAUNA	Certain	Opportunistic sighting	Day sighting	3
Dasyurus geoffroi	chuditch, western quoll	MAMMAL	Threatened - Vulnerable	VU	VU	22/05/2012	22	5	2012	19440	TFAUNA	Certain	Survey	Caught or trapped	1
Phascogale tapoatafa wambenger	south-western brush-tailed phascogale, wambenger	MAMMAL	Specially Protected - conservation dependent	CD		30/10/2011	30	10	2011	19838	TFAUNA	Certain	Opportunistic sighting	Night sighting	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	7/04/2010	7	4	2010	20101	TFAUNA	Moderately certain	Community survey	Secondary sign	0
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	1/03/2006	1	3	2006	21382	TFAUNA	Certain	Targeted survey	Day sighting	300
Isoodon fusciventer	quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		3/10/2012	3	10	2012	22275	TFAUNA	Certain	Opportunistic sighting	Day sighting	1

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Calyptorhynchus banksii naso	forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	1/02/2006	1	2	2006	22303	TFAUNA	Certain	Targeted survey	Day sighting	1
Calyptorhynchus banksii naso	forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	27/01/2006	27	1	2006	22304	TFAUNA	Certain	Targeted survey	Day sighting	0
Calyptorhynchus banksii naso	forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	12/04/2002	12	4	2002	22333	TFAUNA	Certain	Targeted survey	Day sighting	3
Calyptorhynchus banksii naso	forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	27/01/2006	27	1	2006	22445	TFAUNA	Certain	Targeted survey	Secondary sign	0
Calyptorhynchus banksii naso	forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	27/01/2006	27	1	2006	22446	TFAUNA	Certain	Targeted survey	Day sighting	1
Calyptorhynchus banksii naso	forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	27/01/2006	27	1	2006	22447	TFAUNA	Certain	Targeted survey	Day sighting	6
Calyptorhynchus banksii naso	forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	27/01/2006	27	1	2006	22448	TFAUNA	Certain	Targeted survey	Secondary sign	0
Calyptorhynchus banksii naso	forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	27/01/2006	27	1	2006	22449	TFAUNA	Certain	Targeted survey	Secondary sign	0
Calyptorhynchus banksii naso	forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	27/01/2006	27	1	2006	22450	TFAUNA	Certain	Targeted survey	Day sighting	3
Calyptorhynchus banksii naso	forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	27/01/2006	27	1	2006	22451	TFAUNA	Certain	Targeted survey	Day sighting	2
Calyptorhynchus banksii naso	forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	27/01/2006	27	1	2006	22452	TFAUNA	Certain	Targeted survey	Secondary sign	0
Calyptorhynchus banksii naso	forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	25/03/2006	25	3	2006	22560	TFAUNA	Certain	Targeted survey	Day sighting	1
Calyptorhynchus banksii naso	forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	18/03/2006	18	3	2006	22561	TFAUNA	Certain	Targeted survey	Day sighting	2
Calyptorhynchus banksii naso	forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	18/03/2006	18	3	2006	22562	TFAUNA	Certain	Targeted survey	Secondary sign	1
Calyptorhynchus banksii naso	forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	27/01/2006	27	1	2006	22563	TFAUNA	Certain	Targeted survey	Secondary sign	0
Calyptorhynchus banksii naso	forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	29/04/2006	29	4	2006	22564	TFAUNA	Certain	Targeted survey	Secondary sign	0
Calyptorhynchus banksii naso	forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	29/04/2006	29	4	2006	22565	TFAUNA	Certain	Targeted survey	Day sighting	2
Calyptorhynchus banksii naso	forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	29/04/2006	29	4	2006	22566	TFAUNA	Certain	Targeted survey	Day sighting	0
Calyptorhynchus banksii naso	forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	29/04/2006	29	4	2006	22567	TFAUNA	Certain	Targeted survey	Day sighting	4
Calyptorhynchus banksii naso	forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	29/04/2006	29	4	2006	22568	TFAUNA	Certain	Targeted survey	Day sighting	5
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	27/01/2006	27	1	2006	22577	TFAUNA	Certain	Targeted survey	Secondary sign	0
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	27/01/2006	27	1	2006	22578	TFAUNA	Certain	Targeted survey	Secondary sign	0
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	27/01/2006	27	1	2006	22580	TFAUNA	Certain	Targeted survey	Secondary sign	0
Calyptorhynchus sp. 'white-tailed black cockatoo'	white-tailed black cockatoo	BIRD	Threatened - Endangered	EN		1/01/2006	1	1	2006	23302	TFAUNA	Moderately certain	Monitoring	Secondary sign	0
Calyptorhynchus banksii naso	forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	1/01/2006	1	1	2006	23305	TFAUNA	Certain	Monitoring	Secondary sign	1
Calyptorhynchus banksii naso	forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	1/01/2011	1	1	2011	23306	TFAUNA	Moderately certain	Monitoring	Secondary sign	0
Calyptorhynchus banksii naso	forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	1/01/2012	1	1	2012	23307	TFAUNA	Moderately certain	Monitoring	Secondary sign	0
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	7/04/2013	7	4	2013	24314	TFAUNA	Certain	Community survey	Day sighting	100
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	24/08/2006	24	8	2006	26244	TFAUNA	Certain	Monitoring	Secondary sign	2
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	27/01/2006	27	1	2006	26293	TFAUNA	Certain	Monitoring	Secondary sign	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	27/01/2006	27	1	2006	26294	TFAUNA	Certain	Monitoring	Secondary sign	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	27/01/2006	27	1	2006	26295	TFAUNA	Certain	Monitoring	Secondary sign	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	27/01/2006	27	1	2006	26296	TFAUNA	Certain	Survey	Day sighting	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	27/01/2006	27	1	2006	26297	TFAUNA	Certain	Monitoring	Secondary sign	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	27/01/2006	27	1	2006	26298	TFAUNA	Certain	Monitoring	Secondary sign	1

SCI_NAME	COM_NAME	CLASS	WA_LISTING	WA_status	EPBCstatus	Date	DAY	MONTH	YEAR	SOURCE_ID	SOURCE	CERTAINTY	OBS_METH OD	OBS_TYPE	COUNT
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	18/03/2006	18	3	2006	27475	TFAUNA	Certain	Monitoring	Secondary sign	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	18/03/2006	18	3	2006	27476	TFAUNA	Certain	Monitoring	Secondary sign	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	18/03/2006	18	3	2006	27477	TFAUNA	Certain	Monitoring	Secondary sign	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	18/03/2006	18	3	2006	27478	TFAUNA	Certain	Monitoring	Secondary sign	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	18/03/2006	18	3	2006	27479	TFAUNA	Certain	Monitoring	Secondary sign	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	18/03/2006	18	3	2006	27480	TFAUNA	Certain	Monitoring	Secondary sign	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	18/03/2006	18	3	2006	27481	TFAUNA	Certain	Monitoring	Secondary sign	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	18/03/2006	18	3	2006	27482	TFAUNA	Certain	Monitoring	Secondary sign	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	18/03/2006	18	3	2006	27483	TFAUNA	Certain	Monitoring	Secondary sign	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	18/03/2006	18	3	2006	27484	TFAUNA	Certain	Monitoring	Secondary sign	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	18/03/2006	18	3	2006	27485	TFAUNA	Certain	Monitoring	Secondary sign	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	1/01/2010	1	1	2010	30927	TFAUNA	Certain	Survey	Day sighting	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	28/01/2006	28	1	2006	32863	TFAUNA	Certain	Survey	Day sighting	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	28/01/2006	28	1	2006	32864	TFAUNA	Certain	Monitoring	Secondary sign	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	1/03/2006	1	3	2006	36240	TFAUNA	Certain	Survey	Day sighting	300
Isoodon fusciventer	quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		15/05/2012	15	5	2012	67978	TFAUNA	Certain	Community survey	Day sighting	1
Isoodon fusciventer	quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		16/05/2012	16	5	2012	68309	TFAUNA	Moderately certain	Community survey	Dead	1
Isoodon fusciventer	quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		25/05/2012	25	5	2012	68428	TFAUNA	Certain	Community survey	Day sighting	4
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	17/10/2013	17	10	2013	75817	TFAUNA	Moderately certain	Survey	Day sighting	5
Phascogale tapoatafa wambenger	south-western brush-tailed phascogale, wambenger	MAMMAL	Specially Protected - conservation dependent	CD		1/11/2013	1	11	2013	79987	TFAUNA	Certain	Opportunistic sighting	Night sighting	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	6/04/2014	6	4	2014	80409	TFAUNA	Moderately certain	Community survey	Day sighting	3
Isoodon fusciventer	quenda, southwestern brown bandicoot	MAMMAL	Priority	P4		19/05/2015	19	5	2015	80552	TFAUNA	Certain	Opportunistic sighting	Dead	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	12/04/2015	12	4	2015	80670	TFAUNA	Certain	Community survey	Day sighting	14
Calyptorhynchus sp. 'white-tailed black cockatoo'	white-tailed black cockatoo	BIRD	Threatened - Endangered	EN		3/04/2016	3	4	2016	84703	TFAUNA	Moderately certain	Community survey	Dusk sighting	53
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	19/05/2016	19	5	2016	89222	TFAUNA	Very Certain (photo, specimen, expert)	Regular monitoring	Remote sensing	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	19/05/2016	19	5	2016	89223	TFAUNA	Very Certain (photo, specimen, expert)	Regular monitoring	Remote sensing	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	19/05/2016	19	5	2016	89224	TFAUNA	Very Certain (photo, specimen, expert)	Regular monitoring	Remote sensing	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	19/05/2016	19	5	2016	89225	TFAUNA	Very Certain (photo, specimen, expert)	Regular monitoring	Remote sensing	1
Phascogale tapoatafa wambenger	south-western brush-tailed phascogale, wambenger	MAMMAL	Specially Protected - conservation dependent	CD		9/03/2017	9	3	2017	92710	TFAUNA	Very Certain (photo, specimen, expert)	Translocation	Released	1
Calyptorhynchus banksii naso	forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	9/04/2017	9	4	2017	95843	TFAUNA	Moderately certain	Community survey	Sighting	5

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Phascogale tapoatafa wambenger	south-western brush-tailed phascogale, wambenger	MAMMAL	Specially Protected - conservation dependent	CD		1/01/1974	1	1	1974	96437	TFAUNA	Certain	Survey	Caught or trapped	3
Notamacropus irma	western brush wallaby	MAMMAL	Priority	P4		1/01/1933	1	1	1933	97154	TFAUNA	Certain	Survey	Caught or trapped	2
Calyptorhynchus sp. 'white-tailed black cockatoo'	white-tailed black cockatoo	BIRD	Threatened - Endangered	EN		10/03/2008	10	3	2008	97543	TFAUNA	Certain	Level 1 or 2 survey	Secondary sign	0
Calyptorhynchus sp. 'white-tailed black cockatoo'	white-tailed black cockatoo	BIRD	Threatened - Endangered	EN		10/03/2008	10	3	2008	97544	TFAUNA	Certain	Level 1 or 2 survey	Secondary sign	0
Calyptorhynchus sp. 'white-tailed black cockatoo'	white-tailed black cockatoo	BIRD	Threatened - Endangered	EN		10/03/2008	10	3	2008	97552	TFAUNA	Certain	Level 1 or 2 survey	Secondary sign	0
Calyptorhynchus sp. 'white-tailed black cockatoo'	white-tailed black cockatoo	BIRD	Threatened - Endangered	EN		10/03/2008	10	3	2008	97553	TFAUNA	Certain	Level 1 or 2 survey	Secondary sign	0
Calyptorhynchus sp. 'white-tailed black cockatoo'	white-tailed black cockatoo	BIRD	Threatened - Endangered	EN		10/03/2008	10	3	2008	97554	TFAUNA	Certain	Level 1 or 2 survey	Secondary sign	0
Calyptorhynchus sp. 'white-tailed black cockatoo'	white-tailed black cockatoo	BIRD	Threatened - Endangered	EN		10/03/2008	10	3	2008	97555	TFAUNA	Certain	Level 1 or 2 survey	Secondary sign	0
Calyptorhynchus sp. 'white-tailed black cockatoo'	white-tailed black cockatoo	BIRD	Threatened - Endangered	EN		10/03/2008	10	3	2008	97556	TFAUNA	Certain	Level 1 or 2 survey	Secondary sign	0
Calyptorhynchus sp. 'white-tailed black cockatoo'	white-tailed black cockatoo	BIRD	Threatened - Endangered	EN		10/03/2008	10	3	2008	97557	TFAUNA	Certain	Level 1 or 2 survey	Secondary sign	0
Calyptorhynchus sp. 'white-tailed black cockatoo'	white-tailed black cockatoo	BIRD	Threatened - Endangered	EN		10/03/2008	10	3	2008	97568	TFAUNA	Certain	Level 1 or 2 survey	Secondary sign	0
Calyptorhynchus sp. 'white-tailed black cockatoo'	white-tailed black cockatoo	BIRD	Threatened - Endangered	EN		10/03/2008	10	3	2008	97569	TFAUNA	Certain	Level 1 or 2 survey	Secondary sign	0
Calyptorhynchus sp. 'white-tailed black cockatoo'	white-tailed black cockatoo	BIRD	Threatened - Endangered	EN		10/03/2008	10	3	2008	97570	TFAUNA	Certain	Level 1 or 2 survey	Secondary sign	0
Calyptorhynchus sp. 'white-tailed black cockatoo'	white-tailed black cockatoo	BIRD	Threatened - Endangered	EN		10/03/2008	10	3	2008	97571	TFAUNA	Certain	Level 1 or 2 survey	Secondary sign	0
Calyptorhynchus sp. 'white-tailed black cockatoo'	white-tailed black cockatoo	BIRD	Threatened - Endangered	EN		10/03/2008	10	3	2008	97572	TFAUNA	Certain	Level 1 or 2 survey	Secondary sign	0
Idiosoma sigillatum	Swan Coastal Plain shield-backed trapdoor spider	INVERTEBRATE	Priority	P3		5/05/2013	5	5	2013	99346	TFAUNA	Certain	Opportunis tic sighting	Caught or trapped	1
Calyptorhynchus sp. 'white-tailed black cockatoo'	white-tailed black cockatoo	BIRD	Threatened - Endangered	EN		13/08/2018	13	8	2018	100541	TFAUNA	Certain	Community survey	sighting	100
Calyptorhynchus banksii naso	Forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	27/01/2006	27	1	2006	AVIF:38164	WAM_BIRDS	WAM Vouchered	Collection	Specimen	1
Calyptorhynchus banksii naso	Forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	27/01/2006	27	1	2006	AVIF:38170	WAM_BIRDS	WAM Vouchered	Collection	Specimen	1
Calyptorhynchus banksii naso	Forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	27/01/2006	27	1	2006	AVIF:38173	WAM_BIRDS	WAM Vouchered	Collection	Specimen	1
Calyptorhynchus banksii naso	Forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	28/01/2006	28	1	2006	AVIF:38180	WAM_BIRDS	WAM Vouchered	Collection	Specimen	1
Calyptorhynchus banksii naso	Forest red-tailed black cockatoo	BIRD	Threatened - Vulnerable	VU	VU	27/01/2006	27	1	2006	AVIF:38181	WAM_BIRDS	WAM Vouchered	Collection	Specimen	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	25/03/2012	25	3	2012	AVIF:38294	WAM_BIRDS	WAM Vouchered	Collection	Specimen	1
Calyptorhynchus latirostris	Carnaby's cockatoo	BIRD	Threatened - Endangered	EN	EN	27/01/2006	27	1	2006	AVIF:38352	WAM_BIRDS	WAM Vouchered	Collection	Specimen	1