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environmental



Roe Highway and Kalamunda
Road Upgrade

Flora, Vegetation,
Fauna and Black
Cockatoo
Assessment

Prepared for:

Main Roads Western Australia

January 2018

● people ● planet ● professional

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Executive Summary

360 Environmental Pty Ltd was commissioned by Main Roads Western Australia (Main Roads) to undertake a detailed flora and vegetation survey, a level 1 terrestrial vertebrate fauna survey and a targeted Black Cockatoo habitat assessment (herein known as the Survey) in support of the construction of a grade separation and optional Dual Use Path at the intersection of Roe Highway and Kalamunda Road (Survey Area).

The Survey was undertaken over 80.8 hectares approximately 15 kilometres east of Perth in the Swan Coastal Plain bioregion of Western Australia.

Key findings from the Detailed Flora and Vegetation Survey are:

- Survey completed on 19th and 23rd October 2017;
- A total of 120 taxa (including species, subspecies, varieties and forms) from 95 genera and 37 families were recorded. The most commonly occurring families were Fabaceae (16 taxa), Myrtaceae (15 taxa), Proteaceae (14 taxa) and Poaceae (11 taxa);
- Conservation significant species recorded during the Survey were:
 - One Threatened species in *Conospermum undulatum* (T); and
 - One Priority species in *Isopogon drummondii* (P3).
- A total of 34 introduced species representing 26.5 % of the total taxa were recorded during the Survey with the following key findings in:
 - **Asparagus asparagoides*, **Zantedeschia aethiopica*, **Echium plantagineum* and **Opuntia stricta* are listed as Declared Pests under the Biosecurity and Agriculture Management Act; and
 - **Asparagus asparagoides* and **Opuntia stricta* are listed as Weeds of National Significance (WONS).
- Vegetation condition ranged from Excellent to Completely Degraded. The majority of the vegetation is considered to be in Degraded to Completely Degraded condition (14.87 ha, 18.47%) (excluding completely Degraded/Cleared). Historical vegetation clearing, weeds, road infrastructure and residential development within and adjacent to the survey area were the most frequently observed impacts on native vegetation;
- Vegetation associations that were affiliated with Floristic Community Types were:
 - **BmAf, EmAf and EmBm** have been determined to have affiliation with FCT SCP20a, which is listed as a sub-community of Banksia woodlands of the Swan Coastal Plain. Banksia woodlands of the Swan Coastal Plain are listed as Endangered. FCT SCP20a is also listed as a TEC under

State legislation. TECs and their associated buffers are regarded as ESAs;

- **CcBs and CcEmAf** have been determined to have affiliation with FCT SCP3c - *Corymbia calophylla* – *Xanthorrhoea preissii* woodlands and shrublands of the Swan Coastal Plain which is listed as Critically Endangered under State legislation and Endangered under the EPBC Act; and
- **CcBs and CcEmAf** have been determined to have affiliation with FCT SCP3c - *Corymbia calophylla* – *Xanthorrhoea preissii* woodlands and shrublands of the Swan Coastal Plain which is listed as Critically Endangered under State legislation and Endangered under the EPBC Act. These remnants equate to 1.96 ha in Good to Degraded condition. The vegetation has very low diversity and is dominated by weed species.
- There are approximately 3.21 ha of FCT SCP20a in the Survey Area, however the occurrences are fragmented and of different condition ratings. Based on this information, and the survey results, there are no remnants of FCT SCP 20a in the Survey Area that would warrant National Protection for the purpose of preserving examples of FCT SCP 20a. This is due to 0.33 ha being in Excellent condition and another remnant in Good to Degraded condition equating to 0.85 ha. A third remnant equates to 1.86 ha which has 1.12 ha in Good to Very Good condition with the remainder being in Degraded condition.

Key findings from the Level 1 Fauna Survey and Black Cockatoo Assessment are:

- Field assessment was undertaken over three non-consecutive days in late October and early November 2017;
- 29 terrestrial species from 20 families were recorded with the following breakdown:
 - 22 bird species from fourteen families;
 - three reptiles from two families; and
 - four mammals from four families.
- Conservation significant species recorded during the Survey were:
 - Forest Red-tailed Black Cockatoo (*Calyptorhynchus banksii naso*); and
 - Southern Brown Bandicoot, Quenda (*Isodon obesulus fusciventer*) (Based on diggings).
- Eighteen basic fauna habitat assessments were undertaken during the survey and three broad fauna habitats were identified and mapped, which included:
 - Marri/Jarrah Forest;
 - Banksia Woodland; and

- Introduced Eucalypt Woodland.
- During the Black Cockatoo assessment, a total of 22.65 ha of Black Cockatoo foraging habitat was recorded in the Survey Area. This consisted of Marri, Jarrah, *Banksia attenuata*, *Banksia menziesii*, *Banksia ilicifolia*, *Allocasuarina fraseriana*, *Xanthorrhoea preissii* and *Pinus* species. These species provide important foraging habitat for all three species of Black Cockatoo. This can be broken down more specifically to 14.05 ha of Marri / Jarrah foraging habitat favoured by Forest Red-tailed Black Cockatoo, 8.26 ha of Banksia Woodland favoured by Carnaby's Black Cockatoo and 0.32 ha of Flooded Gum habitat that is occasionally utilised by Forest Red-tailed Black Cockatoo; and
- Forest Red-tailed Black Cockatoo foraging evidence was recorded throughout the Survey Area. In addition direct evidence of the species was observed throughout with the species foraging on Marri along the length of Roe Highway. A total of 401 trees were recorded within the Survey Area with a Diameter at Breast Height (DBH) of >500mm. These are considered to be potential Black Cockatoo breeding habitat trees. A total of 19 of these potential breeding trees were observed as containing hollows. Of the 19 trees containing hollows only 6 contained hollows that may be suitable for Black Cockatoo species (hollow entrance =/> 120mm).

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1 Introduction

360 Environmental Pty Ltd (360 Environmental) was commissioned by Main Roads Western Australia (Main Roads) to undertake a detailed flora and vegetation assessment, a Level 1 terrestrial vertebrate fauna assessment and a Black Cockatoo habitat assessment (herein known as the Survey) in support of construction of a grade separation and optional Dual Use Path at the intersection of Roe Highway and Kalamunda Road (herein known as the Survey Area).

1.1 Location

The Survey Area covers an area of approximately 80.8 hectares (ha) and is located approximately 15 kilometres (km) east of Perth in the Swan Coastal Plain bioregion of Western Australia (Figure 1).

1.2 Objectives

The objectives of the flora and vegetation survey were to:

- Conduct a desktop assessment of relevant literature, databases and spatial datasets to determine the environmental values and any potential issues, such as Threatened/Rare and significant species, Threatened Ecological Communities (TECs) and Priority Ecological Communities (PECs), that may be present in the Survey Area and the surrounding areas;
- Undertake a field survey including the use of quadrats along with targeted searches for species of conservation significance where required to verify the accuracy of the desktop assessment;
- Delineate and characterise the flora and the range of vegetation units present in the Survey Area in accordance with Environmental Protection Authority (EPA) Technical Guidance – Flora and Vegetation Surveys for Environmental Impact Assessment (EPA 2016); and
- Assess and map the vegetation condition in the Survey Area.

The objectives of the vertebrate fauna survey were to:

- Conduct a desktop assessment of fauna databases and any relevant literature;
- Conduct a survey in accordance with EPA Technical Guidance Terrestrial Fauna Surveys for Environmental Impact Assessment (EPA 2016a);
- Document, describe and map the vertebrate fauna habitats present;
- Identify vertebrate fauna of conservation significance that are present or may potentially occur in the Survey Area; and

- Record opportunistic fauna sightings.

The objective of the Black Cockatoo habitat assessment was to:

- Identify and determine the type and extent of habitat (breeding, foraging and roosting) suitable for Black Cockatoos in the Survey Area with reference to the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) referral guidelines for three threatened Black Cockatoo species (DSEWPaC 2012); and
- Assessment of the project against the risk referral guidelines in the revised draft referral guideline for three threatened black cockatoo species: Carnaby's Cockatoo, Baudin's Cockatoo and Forest Red-tailed Black Cockatoo (Department of the Environment and Energy, 2017a).



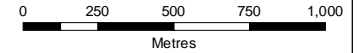
Legend

Site Boundary (80.80ha)

NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
 LOCALITY MAP SOURCED LANDGATE 2008
 AERIAL PHOTOGRAPHY SOURCED LANDGATE 2017
 © Western Australian Land Information Authority 2017

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LOCALITY MAP



PROJECT ID 2385		DATE 28/11/2017	
HORIZONTAL DATUM AND PROJECTION GDA 1994 MGA Zone 50			
CREATED JA	CHECKED NW	APPROVED NW	REVISION 0

Main Roads WA
Roe Hwy and Kalamunda Rd Upgrade

**Flora, Vegetation and Fauna
 Assessment**

Figure 1 Location
 of Survey Area



1.3 Protection of Flora, Vegetation and Fauna

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

Legislative measures:

- *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) (Commonwealth);
- *Wildlife Conservation Act 1950* (WA);
- *Biodiversity Conservation Act 2016* (BC Act) (WA);
- *Environmental Protection Act 1986* (EP Act) (WA); and
- *Biosecurity and Agriculture Management Act 2007* (BAM Act) (WA).

Non-legislative measures:

- Department of Biodiversity, Conservation and Attractions (DBCA) Priority lists for flora, ecological communities and fauna;
- Weeds of National Significance (WONS); and
- Recognition of locally significant populations by DBCA and Department of Water and Environmental Regulation.

A short description of each is provided in Appendix A. Other definitions, including species conservation categories, are also provided in Appendix B. Conservation categories for ecological communities are provided in Appendix C.

1.4 Black Cockatoos

Three species of Black Cockatoo are found in south-west WA; Carnaby's Black Cockatoo, Forest Red-tailed Black Cockatoo and Baudin's Black Cockatoo. All three Black Cockatoos have suffered a substantial decline in numbers and breeding distribution in the past 50 years (Johnstone and Storr 1998). Direct causes of population decline include the large numbers shot by orchardists (mainly associated with Baudin's Black Cockatoo), clearing and fragmentation of habitat (especially the loss of breeding hollows), the impact of hollow competitors including the Galah (*Cacatua roseicapilla*), corellas including Butler's Corella (*Cacatua pastinator butleri*), Australian Shelduck (*Tadorna tadornoides*), Australian Wood Duck (*Chenonetta jubata*), the feral European honey bee (*Apis mellifera*), and also vehicle strikes. Around 60% of the original vegetation on the Swan Coastal Plain has been cleared and up to 85% in other parts of the south-west region for agriculture (crops), meat production, dairying, farms, orchards, vineyards, pine plantations, mining, timber and wood chipping, cities and towns. At present, extensive tracts of uncleared land only remain in State forest and conservation reserves and what is left of remnant vegetation (in roadside verges etc.) is often disturbed to a varying degree (Johnstone and Kirkby 2011).

The south-west region is now a severely fragmented landscape and the further loss of foraging habitat, the lack of suitable breeding sites, climate change, and alterations in the landscape has led to significant changes in forest structure. Almost every part of the Jarrah-Marri forest has been logged in the past, and most present day trees are too young to form hollows, and competition with exotic species, exacerbate the future conservation of Carnaby's Black Cockatoo, FRTBC's and Baudin's Black Cockatoo (Johnstone and Kirkby 2011).

The Survey Area is within the known distribution of all three south western region Black Cockatoo species and therefore all will be included for consideration within this report.

1.4.1 Carnaby's Black Cockatoo

Carnaby's Black Cockatoo, also known as the Short-billed Cockatoo, is a large Black Cockatoo with a white patch on its cheek, white bands on its tail, and a strong curved bill. Male Carnaby's Black Cockatoos have a black bill and a dark-pink eye-ring. Females have a light grey bill, grey eye-ring, and the cheek patch is less distinctive (Johnstone and Storr 1998).

Carnaby's Black Cockatoo is endemic to south-west WA, and is distributed from the Murchison River to Esperance and inland to Coorow, Kellerberrin and Lake Cronin (Cale 2003). The species was once common, but the population has declined significantly in the last half century, and is now locally extinct in some areas (Johnstone and Storr 1998; Shah 2006). In the last 45 years the species has suffered a 50% reduction in its abundance (Cale 2003). This reduction is due to the clearing of core breeding habitat in the Wheatbelt, the deterioration of nesting hollows, and clearing of food resources on the Swan Coastal Plain (Cale 2003). The total population of Carnaby's Black Cockatoo is currently estimated at 40,000 (Johnstone and Kirkby 2008).

Carnaby's Black Cockatoo occur in uncleared or remnant areas of Eucalypt woodland, principally Salmon gum (*Eucalyptus salmonophloia*) or Wandoo (*E. wandoo*), and shrubland or kwongan heath dominated by Hakea and Banksia species. Carnaby's Black Cockatoo nest in the hollows of live or dead smooth-barked Eucalypts such as Salmon Gum and Wandoo, as well as Red Morrell (*E. longicornis*), York Gum (*E. loxophleba*), Marri and Tuart (Johnstone and Storr 1998). They display strong pair bonds and nest in hollows ranging from 2.5-12 m above ground, with the size of entrance ranging from 23-30 cm and depth of hollow ranging from 1-2.5 m (Johnstone and Storr 1998). Eggs are laid between July to mid-October and incubated for 29 days (Johnstone and Storr 1998).

Carnaby's Black Cockatoos feed on seeds, nuts and flowers of a variety of native and exotic plants. Food plants include Banksia (including those previously included in the genus *Dryandra*), Pine trees (*Pinus* sp.), Marri, Jarrah, Grevillea, Allocasuarina, and Hakea species (Shah 2006). The seeds from seed pods of Banksia and the cones of Pine trees provide the highest energetic yield as Carnaby's Black Cockatoo are less efficient

at extracting Marri seeds than the longer billed Baudin's Black Cockatoo (Cooper *et al.* 2002).

1.4.2 Forest Red-tailed Black Cockatoo

The Forest Red-tailed Black Cockatoo is a large Black Cockatoo with a pair of black central tail feathers and a bright red, orange or yellow barring on the tail (DSEWPaC 2012). It is distributed through the humid and subhumid south-west of WA from Gingin through the Darling Ranges to the south-west from Bunbury to Albany. It also occasionally occurs in the southern Swan Coastal Plain and rarely in the Perth metropolitan area. The Forest Red-tailed Black Cockatoo occurs in pairs or small flocks, or occasionally large flocks of up to 200 birds (Johnstone and Storr 1998). The Forest Red-tailed Black Cockatoo inhabits dense Jarrah, Karri and Marri forests that receive more than 600 mm average annual rainfall (DSEWPaC 2012).

The Forest Red-tailed Black Cockatoo feeds primarily on Marri and Jarrah fruit (Johnstone and Kirkby 1999) and to a lesser extent on Blackbutt (*Eucalyptus patens*), Albany Blackbutt (*Eucalyptus staeri*), Karri, Sheoak (*Allocasuarina fraseriana*) and Snottygobble (*Persoonia longifolia*). Forest Red-tailed Black Cockatoos can obtain energy faster when feeding on Marri and Jarrah than other food sources (Cooper *et al.* 2002) and these two plant species make up 90% of its diet.

1.4.3 Baudin's Black Cockatoo

Baudin's Black Cockatoo is listed as Vulnerable under the EPBC Act. This species is distributed through the south-western humid and subhumid zones, from the northern Darling Range and adjacent far east of the SCP (south of the Swan River), south to Bunbury and across to Albany (Johnstone and Kirkby 2011). Baudin's Black Cockatoo rarely occurs near the coast north of Mandurah, and rarely occurs north of the Swan River (Johnstone and Kirkby 2008; Johnstone and Storr 1998). Baudin's Black Cockatoo usually occur in small flocks of up to 30, or occasionally up to 50 and rarely in aggregations of up to 1,200 (Johnstone and Kirkby 2008). Baudin's Black Cockatoo is distinguished from Carnaby's Black Cockatoo by its longer bill and slightly different call.

This species forages primarily in Eucalypt forest, where it feeds on Marri seeds, flowers, nectar and buds. They also feed on a wide range of seeds of Eucalypt, Banksia, Hakea and Pines (*Pinus* sp.) as well as fruiting apples and pears and beetle larvae from under the bark of trees (Johnstone and Kirkby 2008; Johnstone and Storr 1998). Baudin's Black Cockatoo forages at all levels of the forest from the canopy to the ground, often feeding in the understorey on proteaceous trees and shrubs, especially Banksia, and in orchards both in trees and on dropped or fallen fruit on the ground.

The breeding biology of this species is poorly known. It has been recorded breeding in deep south-west, north to the Whicher Range and Lowden and also isolated records at Wungong Catchment, Serpentine (hills area) and east to Kojonup and near Albany

(Johnstone and Kirkby 2008). They nest in large, mostly vertical, hollows of Karri (*E. diversicolor*), Marri, Wandoo, and Bullich (*E. megacarpa*). Baudin's Black Cockatoos display strong pair bonds are monogamous and most likely mate for life (Johnstone and Kirkby 2008). The pair remains together all year round except when the female is incubating and brooding. Both adults play a part in selecting the nest hollow, but only the female is responsible for renovation and preparing the hollow for breeding. Preparation of the hollow consists of chewing around the entrance of the hollow and down one part of the interior wall. Pairs have also been recorded prospecting for hollows in most months and also outside the breeding range (Johnstone and Kirkby 2008).

2 Biophysical Environment

2.1 Climate

The climate of the south western region of Western Australia is characterised as a Mediterranean climate (cSA - Koppen and Geiger Climate Classification) typified as long, hot, dry summers with mild, rainy winters.

The closest official Bureau of Meteorology (BoM) weather station currently operating is Perth Airport (Station # 9021) where quality controlled climate data is available dating back to 1944 (Figure 2). The station recorded 751.4 mm of rain in the 12 months prior to the initial survey (October 2016 – October 2017). This is 15 mm below the annual average rainfall of 766.1 mm (BoM 2017). For the three months prior to the survey (July 2017 - September 2017), the Perth Airport station recorded 412.2 mm of rainfall, 65.4 mm above the 346.8 mm long term average rainfall for the same period (Graph 1) (BoM 2017).

Monthly temperatures in October range from 22.7°C (maximum) to 10.3°C (minimum) with temperatures during the Survey being comparable to the long-term average (Figure 2).

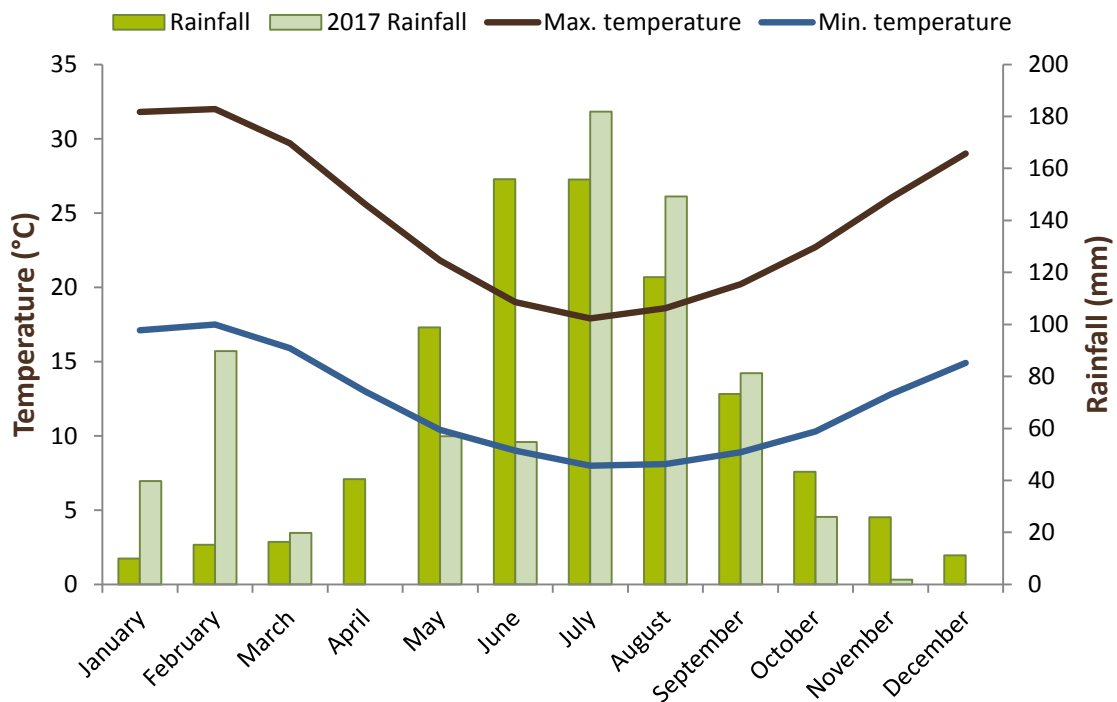


Figure 2: Monthly Average Rainfall and Temperature (max. and min.) (from 1944 to 2017) for the Perth Airport Station (BoM 2017).

2.2 Interim Biogeographic Regionalisation for Australia

The Interim Biogeographic Regionalisation of Australia (IBRA7) divides Australia into 89 bioregions based on major biological and geographical/geological attributes. These bioregions are subdivided into 419 subregions, as part of a refinement of the IBRA framework. The Survey Area lies within Swan Coastal Plain bioregion and the Perth (SWA02) subregion (Figure 3). The Swan Coastal Plain is a low lying coastal plain, mainly covered with woodlands. It is dominated by Banksia or Tuart on sandy soils, *Casuarina obesa* on outwash plains, and paperbark in swampy areas. The outwash plains, once dominated by *C. obesa-marri* woodlands and Melaleuca shrublands, are extensive in the south (Mitchell *et al.* 2002).

The Perth subregion is composed of colluvial and aeolian sands, alluvial river flats, coastal limestone, heath and/or Tuart woodlands on limestone, Banksia and Jarrah-Banksia woodlands on Quaternary marine dunes of various ages, Marri on colluvial and alluvial soil (Mitchell *et al.* 2002).

2.3 Geology and Soils

Soil-landscape mapping of south WA has been captured at scales ranging from 1:20,000 to 1:250,000. Surface geology profile mapping at 1:250,000 indicates that the geology of the Survey Area is typically:

- **Bassendean Sand** – Basal conglomerate overlain by dune quartz sand with heavy mineral concentrations (GSWA 2008) (Figures 3 and 4).

Surface geology across the Survey Area is described as follows:

- S10 - Thin layer of Bassendean Sand overlying Guildford Formation Sand: Sand, very light grey at surface, yellowing at depth, fine to medium grained, sub-rounded quartz, trace of feldspar, moderately sorted, of residual origin (majority of Survey Area);
- S8 - Bassendean Sand: Sand, very light grey at surface, yellowing at depth, fine to medium grained, sub-rounded quartz, trace of feldspar, moderately sorted, of residual origin (northern portion of the Survey Area);
- S12 - Yoganup Formation: yellow, fine to medium grained, subangular to rounded quartz, with some feldspar, well sorted, variable silt content, of colluvial origin (south of Poison Gully Creek); and
- MGs2 - Gravelly Silt: Strong brown, tough with common pebbles of fine coarse-grained, sub-rounded granite, some dolerite and rare sandstone, variable sand content (Kalamunda Road corridor) (DAFWA 2012).

2.4 Broad Vegetation Types

Mapping of the vegetation of the Swan Coastal Plain region which included the Survey Area was completed on a broad scale (1:1,000,000) by Beard (1981). These vegetation units were later re-assessed by Shepherd *et al.* (2001) to account for clearing in the intensive land use zone, dividing some larger vegetation units into smaller units.

The Shepherd *et al.* (2001) vegetation type in the Survey Area is described below (Table 1):

- **Bassendean 1001:** Medium very sparse woodland; Jarrah, with low woodland; Banksia & Casuarina.

Table 1: Broad Vegetation Types within the Survey Area, the State and Regional Representation (Government of Western Australia 2017)

	PRE-EUROPEAN AREA (HA)	CURRENT EXTENT (HA) 1	REMAINING (%)	CURRENT EXTENT % DBCAs RESERVES1
Vegetation Types in the State (WA)				
1001	57,410.23	12,704.45	22.13	12.63
Vegetation Types in the Swan Coastal Bioregion				
1001	57,410.23	12,704.45	22.13	12.63
Vegetation Types in the Perth Subregion				
1001	57,410.23	12,704.45	22.13	12.63
LGA Kal	1473.91	111.08	7.54	19.60
LGA Swan	8868.19	2363.91	26.66	0.09

The vegetation of the Swan Coastal Plain was mapped at a regional scale by Heddle *et al.* (1980). The Survey Area supports remnants of a one vegetation complex (DBCAs 2017a):

- **Forrestfield Complex** - Open forest and fringing woodland ranging from open forest of Marri - *Corymbia calophylla*, Wandoo - *Eucalyptus wandoo*, Jarrah - *Eucalyptus marginata* to open forest of Marri, Jarrah, Sheoak - *Allocasuarina fraseriana* - Banksia species. Fringing woodland of Flooded Gum appear in the gullies that dissect this landform.

2.5 Geomorphic Wetlands

Wetlands of the Swan Coastal Plain have been described and mapped by Hill *et al.* (1996) and assigned a management category reflecting their condition. A search of the Department of Water and Environmental Regulation (DWER) geomorphic wetlands database determined that the Survey Area does not contain any wetlands. The nearest

wetland to the Survey Area is a Resource Enhancement Wetland (UFI 15877) located approximately 200 m west of the Survey Area, near the intersection of Roe Highway and Berkshire Road (Figure 5) (DBCA 2017a).

2.6 Environmentally Sensitive Areas

Environmentally Sensitive Areas (ESAs) are declared to prevent degradation of important environmental values such as Threatened flora, TECs or significant wetlands. Exemptions contained in the *Environmental Protection (Clearing of Native vegetation) Regulations 2004* for low impact land clearing do not apply in ESAs and a clearing permit is required. The southern half of the Survey Area (between Maida Vale Road and Berkshire Road) has been identified as an ESA referring to the presence of a nearby TEC and geomorphic wetland to the west of the Survey Area. The northern end of the Survey Area is also mapped as an ESA, accounting for Bush Forever Site 122, which has been identified as containing a TEC. (Figure 6) (DWER 2017).

2.7 Bush Forever

A small portion of native vegetation north of the Roe Highway and Kalamunda Road intersection is vested with and managed by the DBCA under the *Conservation and Land Management Act 1984* (CALM Act). This conservation area falls outside the boundary of the Survey Area. Six (6) Bush Forever sites surround the Survey Area, with Bush Forever Site 45 partially impinging on the southern section of the Survey Area (Figure 7). Approximate distances to other Bush Forever Sites are provided in Table 2.

Table 2: Bush Forever Sites Adjacent to Survey Area (DoP 2014)

BUSH FOREVER SITE	DISTANCE FROM SURVEY AREA
Bush Forever Site 213	400 m east
Bush Forever Site 122 (Hawkevale Nature reserve)	adjacent
Bush Forever Site 123	126 m west
Bush Forever Site 316	115 m south east
Bush Forever Site 45	N/A
Bush Forever Site 481	650 m north west

2.8 Ecological Linkages

The Survey Area forms part of the Perth Biodiversity Project's (PBP) Draft Regional Ecological Linkage Network (PBP 2008). The purpose of the Regional Ecological Linkages identified by the PBP was to link protected natural areas with other areas of mapped native vegetation. Priority was given to identifying linkages through those areas having the greatest assumed protection and to those areas that maximised opportunities

to form continuous corridors of native vegetation. Two Ecological Linkages (ID: 135 and 42) intersect the southern portion of the Survey Area (PBP 2008) (Figure 7).

3 Methods

3.1 Survey Legislation

The surveys were completed in accordance with the EPA requirements for environmental surveying and reporting in WA as set out in the following guidelines:

- *Technical Guidance – Terrestrial Flora and Vegetation Surveys for Environmental Impact Assessment* (EPA 2016a).
- *Terrestrial Biological Surveys as an Element of Biodiversity Protection. Position Statement No. 3* (EPA 2002);
- *Technical Guide – Terrestrial Vertebrate Fauna Surveys* (EPA 2016b), previously *Terrestrial Fauna Surveys for Environmental Impact Assessment in Western Australia. Guidance Statement No. 56* (EPA 2004);
- *EPBC Act referral guidelines for the three threatened black cockatoo species; Carnaby's Cockatoo, Baudin's Cockatoo and Forest Red-tailed Black Cockatoo* (DSEWPaC 2012); and
- *Technical Guide – Sampling Methods for Terrestrial Vertebrate Fauna* (EPA 2016b), previously *Technical Guide – Terrestrial Vertebrate Fauna Surveys for Environmental Impact Assessment* (EPA-DEC 2010).

The revised draft referral guidelines for three threatened black cockatoo species: Carnaby's Cockatoo, Baudin's Cockatoo and Forest Red-tailed Black Cockatoo (DoEE 2017) were used for the foraging habitat assessment onsite. These guidelines are yet to be finalised and should be interpreted accordingly.

3.2 Desktop Assessment

3.2.1 Flora and Vegetation

The following government databases were reviewed to provide background information on the flora and vegetation of the Survey Area:

- DBCA Threatened and Priority Flora database (5 km radial search) (DBCA 2017a);
- DBCA Threatened and Priority Ecological Communities database (10 km radial search) (DBCA 2017b);
- NatureMap (5 km radial search) (DBCA 2017d); and
- DEE Protected Matters Search Tool (5 km radial search) (DEE 2017).

These sources were used to compile a list of expected Threatened and Priority species and TECs and PECs that may occur based on the landforms within the Survey Area (Figures 8a and 8b).

3.2.2 Fauna

The following government databases were reviewed to provide background information on fauna potentially occurring in the Survey Area:

- DBCA threatened fauna database; (5 km radial search) (DBCA 2017c);
- NatureMap (10 km radial search) (DBCA 2017d); and
- EPBC Protected Matters Search Tool (EPBC PMST) (10 km radial buffer) (DEE 2017).

Collectively, these sources were used to compile a list of species that have been previously recorded in the vicinity of the Survey Area.

The Likelihood of Occurrence of each species is based on the following criteria:

- Recorded: Recorded during the field assessment;
- Likely: Suitable habitat is present in the Survey Area and the Survey Area is in the species' known distribution;
- Possible: Limited or no suitable habitat is present in Survey Area, but is nearby. The species has good dispersal abilities and is known from the general area; and
- Unlikely: No suitable habitat is present in Survey Area but is nearby, the species has poor dispersal abilities, but is known from the general area; or suitable habitat is present, however the Survey Area is outside of the species' known distribution.

This list invariably includes some species that do not occur in the Survey Area, as some fauna have a limited or patchy distribution or a high level of habitat specificity for habitats which are not located in the Survey Area e.g. marine mammals, wading birds and shorebirds that require coastal shores for habitat. Some fauna may also have become locally extinct or were erroneously identified in previous surveys. Other fauna listed solely as Marine under the EPBC act are not considered conservation significant. These fauna were examined and then excluded from the list where relevant.

3.3 Flora and Vegetation Survey Methods

3.3.1 Field Survey

The Detailed Flora and Vegetation field survey was conducted on 19th and 23rd October 2017 by 360 Environmental Principal Botanist Narelle Whittington. The survey included the assessment of two quadrats, three relevés and vegetation mapping notes. Quadrats were accurately measured out with each corner demarcated with a steel stake and the northwest (NW) corner marked with a permanent marker and flagging tape. Quadrats

were measured at 10 m x 10 m to cover a surface area of 100 m². The GPS locations of the NW corners of each plot were recorded using a handheld Garmin GPS unit, and a photo was taken.

In addition to the data collected from quadrats, traverses throughout the Survey Area were undertaken for vegetation mapping purposes and significant flora searches, including but not limited to Threatened flora, Priority flora and introduced flora (in particular declared taxa).

Permits

The flora survey was conducted under the following licences issued by DBCA; Licence to take flora for scientific or other prescribed purposes SL011541 and Permit to take Declared Rare Flora 44-1516 issued to Principal Botanist Narelle Whittington.

3.3.2 Vegetation Mapping

The vegetation mapping units were described based on their structure and species composition, as defined by the quadrat data and field observations. Vegetation types and vegetation condition was mapped in the field using handheld GPS (Garmin) units and high-resolution aerial photographs (1:3,000 scale), which were digitised in the office using GIS software (ArcGIS 9.3.1). Vegetation condition was assessed based on the Keighery (1994) vegetation condition scale (Keighery 1994) (Appendix D).

3.3.3 Taxonomy and Nomenclature

Where field identification of plant taxa was not possible, specimens were collected systematically for later identification utilising resources of the Western Australian Herbarium (WAH).

The species list was checked against FloraBase (WAH 2017) to determine the species name, status, naturalised status and conservation status. Threatened and Priority Flora were verified against the EPBC Act listing of threatened species to determine Commonwealth listing.

The Western Australian Organism List (WAOL) and Weeds of National Significance (WONS) list was consulted to determine if recorded flora are identified as Declared Plants or WONS respectively (Thorp & Lynch 2000) (Appendix E)

3.4 Vertebrate Fauna Survey Methods

3.4.1 Field Survey

The field survey was undertaken by an experienced Senior Zoologist. The survey was undertaken consistent with standard protocols for the region and relevant EPA Guidance Statements and EPBC Act Survey Guidelines as outlined above in section 3.1 (where relevant and practical).

The purpose of the field survey was to verify the accuracy of the desktop assessment and to further delineate and characterise the fauna assemblages and fauna habitat in the Survey Areas. The field survey consisted primarily of fauna habitat assessments and opportunistic observations.

3.4.2 Habitat Assessment

Vegetation communities and landforms were used to identify the broad fauna habitats in the Survey Area. The basic habitat assessments were documented systematically for each habitat type.

Each broad fauna habitat type description includes information on:

- Location of the broad habitat type within the Survey Area (GPS co-ordinate) and its relative percentage; and
- Photo showing a typical example of the broad fauna habitat type.

3.4.3 Opportunistic Observation

Fauna were opportunistically observed and recorded during the assessment. The assessment included looking through leaf litter, overturning rocks, looking under decorticating bark and searches for scats, tracks, burrows and other traces of animals throughout the Survey Area. If conservation significant species were located, the coordinates were recorded with a GPS.

3.4.4 Taxonomy

Where there is doubt on species names identified in the desktop assessment (through subsequent name changes or taxonomic reviews), an effort was made to determine the current scientific name for each taxon. Taxonomy and nomenclature in this report follows the WA Museum checklist 2017 where relevant.

3.5 Black Cockatoo Survey Methods

3.5.1 Field Survey

The Black Cockatoo assessment was undertaken alongside the vertebrate fauna survey and involved traversing the Survey Area by foot.

3.5.2 Breeding habitat

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

- Native trees (e.g. Jarrah, Tuart, Marri, Wandoo and Salmon Gum);
- Diameter at Breast Height (DBH @ 1.3m) > 500 mm (300 mm for Wandoo and Salmon Gum) regardless of the presence or absence of hollows;
- Hollows were categorised;

- Small = < 1200 mm
- Medium = 1200 mm
- Large = > 1200 mm

Trees with multiple stems, swellings or forking/branching at breast height were measured separately. When this occurred the diameter was measured just above breast height to gain a more accurate measurement of diameter.

3.5.3 Foraging Habitat

The Black Cockatoo assessment involved assessing the habitat for tree and shrub species known to be important dietary items e.g. *Marr*i and *Banksia* sp. as outlined within the referral guidelines. It also included looking for:

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

3.5.3.1 Foraging Habitat Scoring Tool

In addition to increase the accuracy of the assessment of foraging habitat for the project the results will also be calculated against the draft risk referral guidelines (Presented in Table 2 of the Revised Draft Referral Guidelines for three threatened black cockatoo species: Carnaby's Cockatoo, Baudin's Cockatoo and Forest Red-tailed Black Cockatoo (DEE 2017a). The layout of this table is displayed below (Table 3).

Habitat Quality Score (DEE 2017a)

10	9	8	7	6	5	4	3	2	1
Very high quality			High Quality		Quality		Low Quality		

Corresponding Acceptability of Loss (ha) (DEE 2017a)

Low 0	Medium 5	High >10
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3.5.4 Roosting Habitat

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

Table 3: Foraging Habitat Scoring Tool (from Revised Draft Referral Guidelines, 2017)

Starting Score	Foraging habitat for Carnaby's Cockatoo	Foraging habitat for Baudin's Cockatoo	Foraging habitat for Forest Red-tailed Black cockatoo
10 (Very high quality)	Foraging habitat that is being managed for black cockatoos such as habitat that is the focus of successful rehabilitation, and/or has some level of protection from clearing, and/or is quality habitat described below with attributes contributing to meet a score of ≥ 10 .	Foraging habitat that is being managed for black cockatoos such as habitat that is the focus of, successful rehabilitation, and/or has some level of protection from clearing, and/or is quality habitat described below with attributes contributing to meet a score of ≥ 10 .	Foraging habitat that is being managed for black cockatoos such as habitat that is the focus of successful rehabilitation, and/or has some level of protection from clearing, and/or is quality habitat described below with attributes contributing to meet a score of ≥ 10 .
7 (High quality)	Native shrubland, kwongan heathland and woodland dominated by proteaceous plant species such as Banksia spp. (including Dryandra spp.), Hakea spp. and Grevillea spp., as well as native eucalypt woodland and forest that contains foraging species, including along roadsides. Does not include orchards, canola, or areas under a RFA	Native eucalypt woodlands and forest, and proteaceous woodland and heath, particularly marri, including along roadsides. Does not include orchards or areas under a RFA.	Jarrah and marri woodlands and forest, and edges of karri forests, including wandoo and blackbutt, within the range of the subspecies, including along roadsides. Does not include areas under a RFA.
5 (Quality)	Pine plantation or introduced eucalypts.	Pine plantation or introduced eucalypts.	Introduced eucalypts as well as the introduced Cape lilac (<i>Melia azedarach</i>).
1 (Low quality)	Individual foraging plants or small stand of foraging plants.	Individual foraging plants or small stand of foraging plants.	Individual foraging plants or small stand of foraging plants.
Additions	Context adjustor - attributes improving functionality of foraging habitat	Context adjustor - attributes improving functionality of foraging habitat	Context adjustor - attributes improving functionality of foraging habitat
+3	Is within the Swan Coastal Plain (important foraging area).	Is within the known foraging area (see map).	Jarrah and/or marri show good recruitment (i.e. evidence of young trees).
+3	Contains trees with suitable nest hollows.	Contains trees with suitable nest hollows.	Contains trees with suitable nest hollows.
+2	Primarily comprises marri.	Primarily contains marri.	Primarily contains marri and/or jarrah.
+2	Contains trees with potential to be used for breeding (dbh ≥ 500 mm or ≥ 300 mm dbh for salmon gum and wandoo).	Contains trees with potential to be used for breeding (dbh ≥ 500 mm or ≥ 300 mm dbh for salmon gum and wandoo).	Contains trees with potential to be used for breeding (dbh ≥ 500 mm or ≥ 300 mm dbh for salmon gum and wandoo).
+1	Is known to be a roosting site.	Is known to be a roosting site.	Is known to be a roosting site.
Subtractions	Context adjustor - attributes reducing functionality of foraging habitat	Context adjustor - attributes reducing functionality of foraging habitat	Context adjustor - attributes reducing functionality of foraging habitat quality
-2	No clear evidence of feeding debris.	No clear evidence of feeding debris.	No clear evidence of feeding debris.
-2	No other foraging habitat within 6 km.	No other foraging habitat within 6 km.	No other foraging habitat within 6 km.
-1	Is > 12 km from a known breeding location.	Is > 12 km from a known breeding location.	Is > 12 km from a known breeding location.
-1	Is > 12 km from a known roosting site.	Is > 12 km from a known roosting site.	Is > 12 km from a known roosting site.
-1	Is > 2 km from a watering point.	Is > 2 km from a watering point.	Is > 2 km from a watering point.
-1	Disease present (e.g. <i>Phytophthora cinnamomi</i> or marri canker).	Disease present (e.g. <i>Phytophthora cinnamomi</i> or marri canker).	Disease present (e.g. <i>Phytophthora cinnamomi</i> or marri canker).

4 Results

4.1 Survey Limitations and Constraints

Survey constraints are often difficult to predict, as is the extent to which they influence survey effort. Limitations and constraints of the Survey are detailed in Table 4.

Table 4: Limitations and Constraints Associated with the Survey Area.

VARIABLE	IMPACT ON SURVEY OUTCOMES
Access	The entire Survey Area was easily accessible via vehicle and on foot. Particular focus was given to areas expected to be impacted and areas that may have species of conservation significance.
Experience	The personnel who executed the survey were practitioners suitably qualified in their respective fields: <ul style="list-style-type: none"> ● Field Staff: Narelle Whittington (Principal Botanist) and Andrew Hide (Senior Zoologist); ● Taxonomy: Narelle Whittington; ● Data Interpretation and Reporting: Narelle Whittington and Andrew Hide ● Review: Scott Walker (Principal Consultant/ Group Leader).
Timing, weather, season	Flora composition changes with time, particularly seasonally as a result of changes in conditions such as rainfall. Therefore, botanical surveys completed at different times of the year will often produce varying results. The flora survey was conducted during October which is considered the recommended flora survey period for the South-West Province (Spring: September – November). For the three months preceding survey, above average rainfall was recorded (refer to section 1.4).
Scope: Life forms sampled	The scope of this project included surveying of flora and vegetation and searching for conservation significant species or communities likely to be present (based on habitat in the Survey Area and database search results).
Sources of information	Relevant DBCA and EPBC searches were undertaken for the Survey Area. Relevant DBCA database searches were undertaken for

VARIABLE	IMPACT ON SURVEY OUTCOMES
	<p>the Survey Area.</p> <p>The desktop analyses used several sources to produce a list of fauna species previously recorded in the vicinity of the Survey Area. These included DBCA Threatened Fauna Database Search (DBCA 2017a), NatureMap (DBCA 2017b), records from the EPBC PMST (DEE 2017), field guides and other scientific literature.</p>
Completeness	<p>The entire Survey Area was accessible during the survey. The time spent conducting the survey was considered adequate for the size, complexity of the site and the survey type. The area was traversed by foot. Five natural vegetation associations and 17 vegetation units were sufficiently surveyed; with two quadrats, three relevés and vegetation mapping conducted across the Survey Area.</p>

4.2 Flora and Vegetation

4.2.1 Desktop Assessment

Results from the DBCA database searches identified 97 conservation significant flora taxa potentially occurring in the vicinity of the Survey Area (Figure 8a and Appendix F). Of these 97 Priority listed taxa, 27 are also listed under the EPBC Act.

Of the 97 conservation significant flora taxa considered to potentially occur in the Survey Area, 13 are considered Likely, three as Possible and 70 as Unlikely. The likelihood of 9 species to potentially occur in the Survey Area is considered to be Unknown due to a lack of available information of their closest records. The likelihood assessment of these 97 conservation significant species occurring in the Survey Area is shown in Appendix G.

A search of the DBCA TEC and PEC database and EPBC PMST identified four Priority communities and 11 State listed TECs as occurring within five kilometres of the Survey Area (Figure 8b). Of these, twelve are listed under the EPBC Act. The communities are:

- SCP08 Herb rich shrublands in clay pans (Vulnerable [DPaW], Critically Endangered [EPBC]);
- *Banksia Woodlands of the Swan Coastal Plain* (Priority 3 [DPaW], Endangered [EPBC]);
- SCP3b - *Corymbia calophylla* - *Eucalyptus marginata* woodlands on sandy clay soils of the southern Swan Coastal Plain (Vulnerable [DPaW]);
- SCP20a *Banksia attenuata* woodlands over species rich dense shrublands (Endangered [DPaW], Endangered [EPBC]);

- SCP20b *Banksia attenuata* and/or *Eucalyptus marginata* woodlands of the eastern side of the Swan Coastal Plain (Endangered [DPaW], Endangered [EPBC]);
- SCP07 Herb rich saline shrublands in clay pans (Vulnerable [DPaW], Critically Endangered [EPBC]);
- SCP02 Southern wet shrublands, Swan Coastal Plain (Endangered [DPaW]);
- SCP10a Shrublands on dry clay flats (Endangered [DPaW], Critically Endangered [EPBC]);
- SCP3a - *Corymbia calophylla* – *Kingia australis* woodlands on heavy soils of the Swan Coastal Plain (Critically Endangered [DPaW], Endangered [EPBC]);
- SCP3c - *Corymbia calophylla* – *Xanthorrhoea preissii* woodlands and shrublands of the Swan Coastal Plain (Critically Endangered [DPaW], Endangered [EPBC]);
- SCP20c Shrublands and Woodlands of the eastern Swan Coastal Plain (Critically Endangered [DPaW], Endangered [EPBC]);
- SCP21c - Low lying *Banksia attenuata* woodlands or shrublands (Priority 3 [DPaW], Endangered – part of [EPBC]);
- Central Granite Shrublands (Com 5, Markey) - Central Northern Darling Scarp Granite Shrubland Community (Priority 4 [DPaW]);
- Muchea Limestone - Shrublands and woodlands on Muchea Limestone (Endangered [DPaW], Endangered [EPBC]); and
- *Subtropical and Temperate Coastal Saltmarsh* (Priority 3 [DPaW], Vulnerable [EPBC]).

4.2.2 Flora Survey

A total of 120 flora taxa (including species, subspecies, varieties and forms) from 95 genera and 37 families were identified in the Survey Area. Of these species, 32 were introduced flora. The most commonly occurring families were Fabaceae (16 taxa), Myrtaceae (15 taxa), Proteaceae (14 taxa) and Poaceae (11 taxa).

Four specimens could only be identified to genus level due to the sterile nature of the specimens, and/or lack of readily identifying features, *Schoenus* sp., *Callistemon* sp., *Pterostylis* sp. and *Rytidosperma* sp. None of these specimens are thought to be of conservation significance as their features do not resemble any of the Priority listed species identified in the database searches.

Areas of original vegetation in the Survey Area have at some point been cleared and then revegetated and/or regrown. Several species present are therefore native to WA, but do not naturally occur in the Survey Area (see Section 4.2.4).

The flora inventory is provided in Appendix H and the Survey Area flora data sheets in Appendix I.

4.2.2.1 Flora of Conservation Significance

One Threatened species, *Conospermum undulatum* (DRF/T) (Plate 1) was recorded within the Survey Area. *Conospermum undulatum* (DRF/T) is listed under the EPBC Act as Vulnerable and gazetted as Declared Rare Flora (Threatened) pursuant to the WC Act. It was recorded in the Survey Area in eight locations (see Table 5 and Figure 5 for locations). The vegetation within the buffers of these conservation significant plants are considered critical habitat and therefore are regarded as ESAs.

One Priority species, *Isopogon drummondii* (P3) (Plate 2), was found at one location (See Table 5 and Figure 9a – 9c for locations).



Plate 1: *Conospermum undulatum*

Plate 2: *Isopogon drummondii*Table 5: Locations of *Conospermum undulatum* and *Isopogon drummondii*

TAXA	NO. OF INDIVIDUALS	COORDINATES (UTM 50J)	
		EASTING	NORTHING
<i>Conospermum undulatum</i> (DRF/T)	1	E407208	N6466747
	1	E407213	N6466731
	1	E407218	N6466711
	3	E407218	N6466700
	1	E407225	N6466662
	1	E407234	N6466603
	1	E407238	N6466686
	1	E407153	N6466639
<i>Isopogon drummondii</i> (P3)	3	E407223	N6466663

4.2.2.2 Introduced Flora

A total of 34 introduced species representing 28.3% of the total taxa were recorded during the survey and are listed in Table 6. Four of these **Asparagus asparagoides*, **Zantedeschia aethiopica*, **Echium plantagineum* and **Opuntia stricta* are listed as Declared Pests under the BAM Act. In addition, both **Asparagus asparagoides* and **Opuntia stricta* are listed as WONS. There are several species which are not naturally occurring and potentially planted in the Survey Area (Table 7).

Table 6: Introduced Flora Recorded in the Survey Area.

TAXA	COMMON NAME	DECLARED PEST	WONS
* <i>Acacia iteaphylla</i>			
* <i>Acacia longifolia</i>			
* <i>Arctotheca calendula</i>	Cape Weed		
* <i>Asparagus asparagoides</i>	Bridal Creeper	yes	yes
* <i>Arundo donax</i>	Giant Reed		
* <i>Briza maxima</i>	Blowfly Grass		
* <i>Cenchrus clandestinus</i>	Kikuyu Grass		
* <i>Chamaecytisus palmensis</i>	Tagasaste		
* <i>Cynodon dactylon</i>	Couch		
* <i>Echium plantagineum</i>	Paterson's curse	yes	
* <i>Ehrharta calycina</i>	Perennial Veldt Grass		
* <i>Eragrostis curvula</i>	African Lovegrass		
* <i>Euphorbia pepus</i>	Petty Spurge		
* <i>Euphorbia terracina</i>	Geraldton Carnation Weed		
* <i>Erythrina x sykesii</i>	-		
* <i>Fumaria capreolata</i>	Whiteflower Fumitory		
* <i>Freesia sp.</i>	-		
* <i>Gladiolus caryophyllaceus</i>	Wild Gladiolus		
* <i>Hypochaeris glabra</i>	Smooth Cats-ear		
* <i>Hyparrhenia hirta</i>	Tambookie Grass		
* <i>Lagurus ovatus</i>	Hare's Tail Grass		
* <i>Lolium rigidum</i>	Wimmera Ryegrass		
* <i>Leptospermum laevigatum</i>	Coast Teatree		
* <i>Lysimachia arvensis</i>	Pimpernel		
* <i>Nerium oleander</i>	-		
* <i>Olea europaea</i>	Olive		
* <i>Oxalis pes-caprae</i>	Soursob		
* <i>Opuntia stricta</i>	Common Prickly Pear	yes	yes
* <i>Ricinus communis</i>	Castor Oil Plant		
* <i>Sonchus oleraceus</i>	Common Sowthistle		
* <i>Tropaeolum majus</i>	Garden Nasturtium		
* <i>Ursinia anthemoides</i>	South African marigold		
* <i>Watsonia meriana var. bulbillifera</i>	Bugle Lily		
* <i>Zantedeschia aethiopica</i>	Arum Lily	yes	

Table 7: Planted Native Flora Species in the Survey Area

TAXON
<i>Agonis flexuosa</i>
<i>Calothamnus quadrifidus</i>
<i>Callistemon sp.</i>
<i>Chamelaucium uncinatum</i>
<i>Eucalyptus wandoo</i>
<i>Melaleuca huegelii</i>
<i>Melaleuca nesophila</i>
<i>Melia azedarach</i>

4.2.3 Vegetation

4.2.3.1 Associations and Units

Five vegetation associations were described for the Survey Area. In addition to the associations, 17 vegetation units were also mapped, which included mature trees in isolation or over gardens and weeds, rehabilitation and non-endemic species. Descriptions for these vegetation units are presented in Table 8 and their distribution illustrated in Figures 9a to 9c. Table 9 describes the area (ha) of each vegetation origin type.

Table 8: Vegetation Units and Extent in the Survey Area

VEGETATION ASSOCIATION CODE	DESCRIPTION	AREA (HA)	NATIVE VEGETATION OR PLANTED
BmAf (Quadrat 1)	Low Open Woodland of <i>Banksia menziesii</i> and <i>Allocasuarina fraseriana</i> over <i>Adenanthos cygnorum</i> , <i>Xanthorrhoea preissii</i> and <i>Eremaea pauciflora</i> .	1.860	Native
EmAf (Quadrat 2)	Open Woodland of <i>Eucalyptus marginata</i> , <i>Allocasuarina fraseriana</i> , <i>Banksia menziesii</i> over <i>Xanthorrhoea preissii</i> , <i>Jacksonia floribunda</i> and <i>Dasyopogon obliquifolius</i>	0.506	Native
CcBs (Releve 1)	Low Woodland of <i>Corymbia calophylla</i> and <i>Allocasuarina fraseriana</i> over <i>Banksia sessilis</i> , <i>Xanthorrhoea preissii</i> and <i>Hibbertia hypericoides</i> .	0.304	Native

VEGETATION ASSOCIATION CODE	DESCRIPTION	AREA (HA)	NATIVE VEGETATION OR PLANTED
CcEmAf (Releve 2 and 3)	Open Forest of <i>Corymbia calophylla</i> , <i>Allocasuarina fraseriana</i> and <i>Eucalyptus marginata</i> over <i>Scholtzia involucrata</i> , <i>Xanthorrhoea preissii</i> , <i>Hibbertia hypericoides</i> and <i>Acacia saligna</i> .	1.662	Native with edges being regrowth
EmJs	Low Open Woodland of <i>Eucalyptus marginata</i> over <i>Jacksonia sternbergiana</i> , <i>Adenanthos cygnorum</i> and <i>Daviesia decurrens</i>	0.291	Native
ErEw	Open Forest of <i>Eucalyptus rudis</i> and <i>Eucalyptus wandoo</i> over <i>Trymalium floribundum</i> , <i>Xanthorrhoea preissii</i> , <i>Hakea undulata</i> , <i>Hakea lissocarpha</i> and weed species	0.228	Native
EmBm	Woodland of <i>Eucalyptus marginata</i> , <i>Banksia menziesii</i> and <i>Allocasuarina fraseriana</i> over <i>Xanthorrhoea preissii</i> , <i>Adenanthos cygnorum</i> , <i>Allocasuarina humilis</i> , <i>Lambertia multiflora</i> , <i>Tetraria octandra</i> and <i>Gompholobium tomentosum</i>	0.868	Native
CcAc	<i>Corymbia calophylla</i> over <i>Adenanthos cygnorum</i> and <i>Xanthorrhoea preissii</i>	0.143	Planted
Ft	Fruit trees	0.039	Planted
Cc	<i>Corymbia calophylla</i>	1.411	Planted
CcAf	<i>Corymbia calophylla</i> and <i>Allocasuarina fraseriana</i> over weed species	2.788	Planted
CcBm	<i>Corymbia calophylla</i> and <i>Banksia menziesii</i> over weed species	2.053	Native
CcEm	<i>Corymbia calophylla</i> and <i>Eucalyptus marginata</i> over weed species	5.306	planted

VEGETATION ASSOCIATION CODE	DESCRIPTION	AREA (HA)	NATIVE VEGETATION OR PLANTED
Cc/Rehab	<i>Corymbia calophylla</i> over non-endemic understorey and weeds	1.965	Planted
CcEr	<i>Corymbia calophylla</i> and <i>Eucalyptus rudis</i> over weed species	0.210	Planted
Em	<i>Eucalyptus marginata</i>	0.133	Planted
Et	<i>Eucalyptus todtiana</i>	0.065	Planted
G	Gardens	0.232	N/A
Rehab	Planted/seeded Vegetation consisting of <i>Calothamnus quadrifidus</i> , <i>Melaleuca huegelii</i> , <i>Allocasuarina humilis</i> , <i>Corymbia calophylla</i> , <i>Acacia saligna</i> and <i>Eucalyptus ? rudis</i>	3.451	Planted
Ne	Non-endemic species	5.565	Planted
Rc	<i>Ricinus communis</i>	0.034	N/A
OeOs	* <i>Olea europaea</i> and * <i>Opuntia stricta</i>	0.159	N/A

Table 9: Vegetation Origin Categories and Extent in the Survey Area

VEGETATION ORIGIN CATEGORIES	SIZE (HA)
<i>Native</i>	10.272
<i>Planted</i>	18.576
<i>Gardens/ weeds</i>	0.584

4.2.3.2 Condition

Vegetation condition ranged from Excellent to Completely Degraded. The majority of the vegetation is considered to be in Degraded to Completely Degraded condition (14.87 ha, 18.47%) (excluding completely Degraded/Cleared). Historical vegetation clearing, weeds, road infrastructure and residential development within and adjacent to the survey area were the most frequently observed impacts on native vegetation.

The vegetation along the length of the route is extremely fragmented and the majority of the site consists of non-endemic species, gardens and weeds. Vegetation condition

mapping is presented in Figure 10a – 10c and the extent within the Survey Area is described in Table 10. The average fire age was considered to be greater than 10 years.

Table 10: Vegetation Condition Extent in the Survey Area.

CONDITION	EXTENT IN SURVEY AREA (HA)	EXTENT IN SURVEY AREA (%)
Excellent	0.33	0.41
Very Good	0.80	0.99
Very Good - Good	0.44	0.54
Good	0.58	0.72
Good - Degraded	1.97	2.45
Degraded	4.58	5.70
Degraded – Completely Degraded	10.29	12.78
Completely Degraded/Cleared	61.49	76.40
Total	80.48	100.00

4.2.3.3 Floristic Community Types

Statistical analysis and data interpretation, as shown in Table 11 was undertaken to help determine the FCTs represented by the vegetation in the Survey Area. This involves reviewing site data for other factors that are diagnostic for FCTs, including the presence of indicator species, soil types and landform position. The quadrat data was tested for similarity against each of Gibson *et al.* (1994) FCT's that were determined and mapped as part of a regional study to describe the vegetation types present on the Swan Coastal Plain in 1994.

Results from the statistical analyses and the site information, identified two FCTs as occurring in the Survey Area (Figure 11).

Table 11: Floristic Community Type Analysis

VEGETATION ASSOCIATION	FLORISTIC COMMUNITY TYPES ¹	SIMILARITY	COMMENTS	INFERRED FLORISTIC COMMUNITY TYPE
BmAf (ROEQ1)	FCT SCP20a- <i>Banksia attenuata</i> woodlands over species rich dense shrublands	30.97%	This vegetation association was only found in one small remnant under the powerline easement. Regardless of the absence of <i>Banksia attenuata</i> in the Survey area, the analysis results showed the highest similarity with FCT SCP20a. Along with these results, the	FCT SCP20a – <i>Banksia attenuata</i> woodlands over species rich dense shrublands 30.97% similarity
	FCT SCP20c – Eastern shrublands and	27.43%		

VEGETATION ASSOCIATION	FLORISTIC COMMUNITY TYPES ¹	SIMILARITY	COMMENTS	INFERRED FLORISTIC COMMUNITY TYPE
	woodlands		Survey Area's location, understory species present, soils, geological unit, and the records from surrounding bushland remnants this vegetation association demonstrated most resemblance with FCT SCP20a.	
	FCT SCP20b- Eastern <i>Banksia attenuata</i> and /or <i>Eucalyptus marginata</i> woodlands of the eastern side of the Swan Coastal Plain	25.51%		
EmAf (ROEQ2)	FCT SCP20a – <i>Banksia attenuata</i> woodlands over species rich dense shrublands	25.92%	Regardless of the absence of <i>Banksia attenuata</i> in the Survey area the analysis results showed the highest similarity with FCT SCP20a. Along with these results, the Survey Area's location, and understory species present this vegetation association demonstrated most resemblance with FCT SCP20a FCT SCP 20a has also been identified within Bush Forever site 122 which is adjacent to the verge side vegetation containing Quadrat 2.	FCT SCP20a – <i>Banksia attenuata</i> woodlands over species rich dense shrublands 25.92% similarity
	FCT SCP 23b – <i>Northern Banksia attenuata</i> – <i>B. menziesii</i>	21.45%		
	FCT SCP20b- Eastern <i>Banksia attenuata</i> and /or <i>Eucalyptus marginata</i> woodlands of the eastern side of the Swan Coastal Plain	21.45%		

The size and condition of several vegetation remnants meant establishing quadrats in these areas was not suitable, relevés were therefore established. Statistical analysis was not undertaken for these sites and therefore FCTs were inferred (Table 12).

Table 12: Floristic Community Type Analysis.

VEGETATION ASSOCIATION	COMMENTS	INFERRED FLORISTIC COMMUNITY TYPE
CcBs	Due to the absence of <i>Banksia</i> tree species and the dominance of <i>Corymbia calophylla</i> . This vegetation association is considered to be affiliated with FCT SCP 3c.	FCT SCP3c - <i>Corymbia calophylla</i> – <i>Xanthorrhoea preissii</i> woodlands and shrublands of the Swan Coastal Plain

VEGETATION ASSOCIATION	COMMENTS	INFERRED FLORISTIC COMMUNITY TYPE
EmBm	Survey Area's location, understorey species present, soils, geological unit, and the records from surrounding bushland remnants this vegetation association demonstrated most resemblance with FCT SCP20a.	FCT SCP 20a - <i>Banksia attenuata</i> woodlands over species rich dense shrublands
CcEmAf	Due to the absence of <i>Banksia</i> tree species and the dominance of <i>Corymbia calophylla</i> . This vegetation association is considered to be affiliated with FCT SCP 3c.	FCT SCP3c - <i>Corymbia calophylla</i> – <i>Xanthorrhoea preissii</i> woodlands and shrublands of the Swan Coastal Plain

4.2.3.4 Threatened and Priority Ecological Communities

Vegetation association BmAf, EmAf and EmBm have been determined to have affiliation with FCT SCP20a, which is listed as a sub-community of *Banksia woodlands of the Swan Coastal Plain*. *Banksia woodlands of the Swan Coastal Plain* are listed as Endangered. FCT SCP20a is also listed as a TEC under State legislation. There are approximately 3.21 ha of FCT SCP20a in the Survey Area, however the occurrences are fragmented and of different condition ratings TECs and their associated buffers are regarded as ESAs.

Vegetation association CcBs and CcEmAf have been determined to have affiliation with FCT SCP3c - *Corymbia calophylla* – *Xanthorrhoea preissii* woodlands and shrublands of the Swan Coastal Plain which is listed as Critically Endangered under State legislation and Endangered under the EPBC Act. These remnants equate to 1.96 ha in Good to Degraded condition.

4.2.3.5 Regional Representation

Vegetation mapping units described in the Survey Area were correlated with the Beard (1978) and Shepherd *et al.* (2001) broad vegetation types as much as possible by examining similarities in vegetation descriptions (Table 13). Differences exist with the terminology used in the descriptions as they are based on different methods of categorising and characterising vegetation types, and the different spatial scale of the analysis (i.e. region vs. local scale).

Table 13: Representation of Broad Vegetation Types and Corresponding Vegetation Associations

VEGETATION TYPE AND DESCRIPTION (SHEPHERD <i>ET AL.</i> 2001/BEARD 1978)	CORRESPONDING VEGETATION ASSOCIATION (CURRENT SURVEY)	VEGETATION ASSOCIATION EXTENT IN SURVEY AREA (HA)
1001 (e2Mb cbLi)	BmAf, EmAf, CcEmAf, EmBm	4.89

4.3 Vertebrate Fauna

4.3.1 Desktop Assessment

A total of 27 conservation significant vertebrate species (including Priority species) were retrieved from the database searches (Appendix F) and are considered as either likely, possibly or unlikely to occur in the Survey Area (Table 14). Of these, two were recorded during the survey (Red-tailed Black Cockatoo and Quenda), a further two are considered likely to occur (Carnaby's Black Cockatoo and Baudin's Black Cockatoo), five (5) are considered as possible and 18 are considered as Unlikely.

The above total was determined after the omission of several species that are not applicable to the Survey Area or are listed federally as Marine. These omissions are discussed in Appendix F. The DBCA Threatened Fauna Database records contain GPS coordinates for each species recorded as illustrated in Figure 12.

Table 14: Conservation Significant Fauna Potentially Occurring in the Survey Areas

Key: EPBC = Environmental Protection and Biodiversity Conservation Act 1999, WC = Wildlife Conservation Act 1950, DBCA = Department of Biodiversity, Conservation and Attractions Priority Code, A = Listed in Naturemap Search, B = EPBC Protected Matters Search, C = DBCA Threatened and Priority Fauna Search, D = Current Survey;

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

Scientific Name	Common Name	Conservation Codes								Likelihood of Occurrence
		EPBC	WC	DBCA	A	B	C	D		
REPTILIAN										
CHELUIDAE										
<i>Pseudemydura umbrina</i>	Western Swamp Turtle	CR	CR		X					Unlikley
SCINCIDAE										
<i>Ctenotus delli</i>	Dell's Ctenotus			P4	X		X			Unlikley
<i>Ctenotus ora</i>	Coastal Plains Skink			P3	X					Unlikley
<i>Lerista lineata</i>	Perth slider, lined skink			P3	X					Unlikley
ELAPIDAE										
<i>Acanthophis antarcticus</i>	Southern Death Adder			P3	X					Unlikley
<i>Neelaps calonotos</i>	Black-striped Snake			P3	X					Unlikley
AVIAN										
ARDEIDAE										
<i>Botaurus poiciloptilus</i>	Australasian Bittern	EN	EN		X	X				Unlikley
<i>Ixobrychus flavicollis australis</i>	Black Bittern			P1	X					Unlikley
<i>Ixobrychus minutus dubius</i>	Australian Little Bittern			P4	X					Unlikley
ANATIDAE										
<i>Oxyura australis</i>	Blue-billed Duck			P4	X		X			Unlikley
APODIDAE										
<i>Apus pacificus</i>	Fork-tailed Swift	IA	IA		X	X				Possible
CACATUIDAE										
<i>Cacatua pastinator</i>	Muir's Corella		S	OS	X					Unlikley
FALCONIDAE										
<i>Falco peregrinus</i>	Peregrine Falcon		S	OS	X					Possible
LARIDAE										
<i>Sterna nereis nereis</i>	Fairy Tern	VU	VU		X					Unlikley
MOTACILLIDAE										
<i>Motacilla cinerea</i>	Grey Wagtail	MiMa	IA			X				Unlikley
MEGAPODIIDAE										
<i>Leipoa ocellata</i>	Malleefowl	VU	VU			X				Unlikley
PSITTACIDAE										
<i>Calyptorhynchus banksii naso</i>	Forest Red-tailed Black Cockatoo	VU	VU	T	X	X	X	X		Recorded
<i>Calyptorhynchus latirostris</i>	Carnaby's Cockatoo (short-billed black-c)	EN	EN	T	X	X	X			Likely
<i>Calyptorhynchus baudinii</i>	Baudin's Cockatoo	VU	EN	T	X	X	X			Likely
MAMMALIAN										
DASYURIDAE										
<i>Phascogale tapoatafa wambenger</i>	South-western Brush-tailed Phascogale		VU	CD	X		X			Possible
<i>Dasyurus geoffroii subsp. fortis</i>	Western Quoll, Chuditch	VU	VU		X	X	X			Possible
PERAMELIDAE										
<i>Isoodon obesulus fusciventer</i>	Southern Brown Bandicoot, Quenda			P5	X		X	X		Recorded
PSEUDOCHEIRIDAE										
<i>Pseudocheirus occidentalis</i>	Western Ringtail Possum	VU	EN	P4	X	X				Unlikley
POTOROIDAE										
<i>Bettongia penicillata ogilbyi</i>	Woylie	EN	CR	P4	X	X				Unlikley
MACROPODIDAE										
<i>Macropus irma</i>	Western Brush Wallaby			P4	X					Possible
<i>Setonix brachyurus</i>	Quokka	VU	VU		X	X				Unlikley
MURIDAE										
<i>Hydromys chrysogaster</i>	Water-rat			P4	X					Unlikley

4.3.2 Fauna Survey

4.3.2.1 Fauna Species

During the field survey 29 fauna species from 20 families were recorded directly or indirectly. This consisted of 22 bird species, three reptile species and four mammal species (Table 15). Two species of conservation significance were recorded and included – 19 instances of digging evidence of the Southern Brown Bandicoot, Quenda (*Isodon obesulus fusciventer*) and foraging evidence of the Red-tailed Black Cockatoo (*Calyptorhynchus banksia naso*).

Table 15: Total Vertebrate Fauna Species Recorded during the Vertebrate Fauna Survey within the Survey Area

COMMON NAME	SPECIES	COUNT	HABITAT TYPE
Bird			
Australian Raven	<i>Corvus coronoides</i>	8	Eucalypt / Corymbia Woodland
Australian Ringneck	<i>Platycercus zonarius</i>	9	Eucalypt / Corymbia Woodland
Australian Magpie	<i>Cracticus tibicen</i>	12	Eucalypt / Corymbia Woodland
Australian Wood Duck	<i>Chenonetta jubata</i>	2	Introduced Eucalypt
Black-faced Cuckoo-shrike	<i>Coracina novaehollandiae</i>	3	Eucalypt/Corymbia Woodland
Brown Honeyeater	<i>Lichmera indistincta</i>	18	Eucalypt/Corymbia Woodland; Introduced Eucalypt
Forest Red-tailed Black Cockatoo	<i>Calyptorhynchus banksii naso</i>	23	Eucalypt / Corymbia Woodland
Galah	<i>Eolophus roseicapilla</i>	11	Eucalypt / Corymbia Woodland
Grey Fantail	<i>Rhipidura albiscapa</i>	2	Eucalypt / Corymbia Woodland
Laughing Kookaburra	<i>Dacelo novaeguineae</i>	2	Eucalypt / Corymbia Woodland
Little Corella	<i>Cacatua sanguinea</i>	4*	Overhead
Magpie-lark	<i>Grallina cyanoleuca</i>	1	Introduced Eucalypt
Rainbow Bee-eater	<i>Merops ornatus</i>	2	Introduced Eucalypt
Rainbow Lorikeet	<i>Trichoglossus moluccanus</i>	6 (2*)	Eucalypt / Corymbia Woodland; Introduced Eucalypt
Red Wattlebird	<i>Anthochaera carunculata</i>	2	Eucalypt / Corymbia Woodland
Rufous Whistler	<i>Pachycephala rufiventris</i>	1	Eucalypt / Corymbia Woodland
Singing Honeyeater	<i>Lichenostomus virescens</i>	28	Eucalypt / Corymbia Woodland; Introduced Eucalypt
Spotted Turtle-Dove	<i>Spilopelia chinensis</i>	2	Eucalypt / Corymbia Woodland
Striated Pardalote	<i>Pardalotus striatus</i>	4	Eucalypt / Corymbia Woodland
Western Gerygone	<i>Gerygone fusca</i>	4	Eucalypt / Corymbia Woodland; Introduced Eucalypt
Weebill	<i>Sericornis brevirostris</i>	1	Eucalypt / Corymbia Woodland
Willie Wagtail	<i>Rhipidura leucophrys</i>	2	Banksia Woodland
Reptile			
Buchanan's snake-eyed skink	<i>Cryptoblepharus buchanani</i>	1	Banksia Woodland
Bobtail	<i>Tiliqua rugosa</i>	3	Eucalypt / Corymbia Woodland
Dugite	<i>Pseudonaja affinis</i>	1	Drainage Line
Mammal			
Red Fox	<i>Vulpes vulpes</i>	X	Eucalypt / Corymbia Woodland
Rabbit	<i>Oryctolagus cuniculus</i>	X	Eucalypt / Corymbia Woodland; Banksia Woodland
Southern Brown Bandicoot, Quenda	<i>Isodon obesulus fusciventer</i>	X	Eucalypt / Corymbia Woodland; Banksia Woodland
Western Grey Kangaroo	<i>Macropus fuliginosus</i>	X	Eucalypt / Corymbia Woodland

* Species observed overhead; X Species Observed through secondary signs (scats, tracks, diggings etc)

4.3.3 Fauna Habitat

Eighteen fauna habitat assessments were undertaken during the survey (Appendix J) and consequently three broad fauna habitats were identified and mapped coarsely at a 1:5,000 scale which included Marri/Jarrah Forest, Banksia Woodland, Introduced Eucalypt Woodland (Table 16 and Figures 13a, b, c). In addition a restricted fauna habitat feature was also identified (Drainage Line). Cleared habitat accounted for the largest area in approximately 52.51 ha.

Table 16: Fauna Habitat Types and Extent in the Survey Area.

FAUNA HABITAT	AREA (HA)	AREA (%)
Marri/Jarrah Forest	16.46	58
Banksia Woodland	6.17	22
Introduced Eucalypt Woodland	5.65	20
Total	28.28	100

The following fauna habitats were recorded during this Survey:

- Marri/Jarrah Forest** - Tall overstorey that includes *Corymbia callophylla*, *Eucalyptus marginata*, with isolated *E. wandoo* and *E. rudis* over a mid-storey of *Acacia* sp., *Allocasuarina fraseriana*, *Banksia* spp, and *Xanthorrhoea preissi*, over an understorey of mixed herbs. This habitat has vegetation in multiple strata (canopy, mid-storey and understorey), woody debris and leaf litter that provides habitat for small reptile, bird and mammal species. However, as these patches are for the most part fragmented, fauna movement between them is limited, particularly for the less mobile groups such as small reptiles and mammals. The Quenda and Forest Red-tailed Black Cockatoo will all make use throughout the extent of this fauna habitat.
- Banksia Woodland** – medium overstorey that consists of *Banksia attenuata*, *B. menziesii* and *B. ilicifolia* over a mid-storey of *Adenanthos* sp. *Allocasuarina fraseriana* and *Xanthorrhoea preissii* over an understorey of mixed native grasses and weeds. This habitat has intact multiple strata (canopy, mid-storey and understorey) with woody debris and leaf litter that provides habitat for small reptile, bird and mammal species. The Quenda will likely both make use throughout the extent of this fauna habitat. The Forest Red-tailed Black Cockatoo will make use of this fauna habitat to a lesser extent without the species preferred foraging species present.
- Introduced Eucalypt Woodland** – mixed habitat of planted Eucalyptus species that are non-Western Australia species. Mid-storey and understorey was heavily degraded and this habitat primarily occurred alongside cleared roadside verges, parklands or within the local golf course.

4.4 Black Cockatoo

4.4.1 Desktop Assessment

The database searches identified all three Black Cockatoo species as occurring in the surrounding area (Figure 12).

4.4.2 Field Assessment

The assessment recorded the presence of the Forest Red-tailed Black Cockatoo within the Marri/Jarrah Forest habitat with observed individuals and extensive foraging evidence (Plates 3 – 5). Individuals were observed within the Survey Area on 17 occurrences.

Isolated evidence of potential Carnaby's Black Cockatoo foraging on Marri fruit were observed within the Survey area. The observed chewing marks on Marri fruit were difficult to accurately confirm as Carnaby's Black Cockatoo due to the presence of Red-Capped Parrots and age of the samples. Further investigation on the presence of Carnaby's Black Cockatoo may be required.

No other evidence of Carnaby's or Baudin's Black Cockatoo was recorded within the Survey Area.



Plate 3: Forest Red-tailed Black Cockatoo observations during the assessment



Plate 4: Forest Red-tailed Black Cockatoo extensive foraging evidence recorded during the assessment



Plate 5: Forest Red-tailed Black Cockatoo extensive foraging evidence recorded during the assessment

4.4.3 Foraging Habitat and Scoring Tool

A total of 22.64 ha of Black Cockatoo foraging habitat was identified within the Survey Area (Figure 14a, b and c) with over 100 occurrences of foraging evidence were observed during the assessment (Figure 15a, b and c) (Appendix K - Photo Reference 1 – 18).

The habitat consisted of a Tall overstorey of *Corymbia callophylla*, *Eucalyptus marginata*, over mid-storey of mixed *Banksia spp*, *Allocasuarina fraseriana*, and *Xanthorrhoea preissii* over mixed herb understorey.

The Black Cockatoo foraging habitat can be further delineated into the following:

- 14.05 ha of Marri/Jarrah foraging habitat favoured by Forest Red-tailed Black Cockatoo;
- 8.26 ha of Banksia Woodland foraging habitat favoured by Carnaby's Black Cockatoo; and
- 0.32 ha of *Eucalyptus rudis* foraging habitat that is occasionally utilised by Forest Red-tailed Black Cockatoo.

The results of the foraging habitat scoring tool recorded a Very High Quality (10) for all three Black Cockatoo species. Table 16 further describes the calculated results.

4.4.4 Potential Breeding Trees

A total of 401 trees were recorded during the assessment that met the criteria of potential breeding trees (Figure 16a, b, c). A total of 19 of these potential breeding trees were observed as containing hollows of which only 6 contained hollows that may be suitable for Black Cockatoo species (hollow entrance \geq 120 mm). Raw data and photos taken of potential breeding trees in the field are displayed in Appendix L.

4.4.5 Roosting Habitat

No roosting evidence or suitable locations that would be favoured for Black Cockatoo populations was found in the Survey Area.

Table 17: Black Cockatoo Foraging Habitat Scoring Tool Ranking Results

Starting Score	Foraging habitat for Carnaby's Cockatoo	Foraging habitat for Baudin's Cockatoo	Foraging habitat for Forest Red-tailed Black cockatoo
10 (Very high quality)	Foraging habitat that is being managed for black cockatoos such as habitat that is the focus of successful rehabilitation, and/or has some level of protection from clearing, and/or is quality habitat described below with attributes contributing to meet a score of ≥ 10 .	Foraging habitat that is being managed for black cockatoos such as habitat that is the focus of, successful rehabilitation, and/or has some level of protection from clearing, and/or is quality habitat described below with attributes contributing to meet a score of ≥ 10 .	Foraging habitat that is being managed for black cockatoos such as habitat that is the focus of successful rehabilitation, and/or has some level of protection from clearing, and/or is quality habitat described below with attributes contributing to meet a score of ≥ 10 .
7 (High quality)	Native shrubland, kwongan heathland and woodland dominated by proteaceous plant species such as Banksia spp. (including Dryandra spp.), Hakea spp. and Grevillea spp., as well as native eucalypt woodland and forest that contains foraging species, including along roadsides. Does not include orchards, canola, or areas under a RFA	Native eucalypt woodlands and forest, and proteaceous woodland and heath, particularly marri, including along roadsides. Does not include orchards or areas under a RFA.	Jarrah and marri woodlands and forest, and edges of karri forests, including wandoo and blackbutt, within the range of the subspecies, including along roadsides. Does not include areas under a RFA.
5 (Quality)	Pine plantation or introduced eucalypts.	Pine plantation or introduced eucalypts.	Introduced eucalypts as well as the introduced Cape lilac (<i>Melia azedarach</i>).
1 (Low quality)	Individual foraging plants or small stand of foraging plants.	Individual foraging plants or small stand of foraging plants.	Individual foraging plants or small stand of foraging plants.
Additions	Context adjustor - attributes improving functionality of foraging habitat	Context adjustor - attributes improving functionality of foraging habitat	Context adjustor - attributes improving functionality of foraging habitat
+3	Is within the Swan Coastal Plain (important foraging area).	Is within the known foraging area (see map).	Jarrah and/or marri show good recruitment (i.e. evidence of young trees).
+3	Contains trees with suitable nest hollows.	Contains trees with suitable nest hollows.	Contains trees with suitable nest hollows.
+2	Primarily comprises marri.	Primarily contains marri.	Primarily contains marri and/or jarrah.
+2	Contains trees with potential to be used for breeding (dbh ≥ 500 mm or ≥ 300 mm dbh for salmon gum and wandoo).	Contains trees with potential to be used for breeding (dbh ≥ 500 mm or ≥ 300 mm dbh for salmon gum and wandoo).	Contains trees with potential to be used for breeding (dbh ≥ 500 mm or ≥ 300 mm dbh for salmon gum and wandoo).
+1	Is known to be a roosting site.	Is known to be a roosting site.	Is known to be a roosting site.
Subtractions	Context adjustor - attributes reducing functionality of foraging habitat	Context adjustor - attributes reducing functionality of foraging habitat	Context adjustor - attributes reducing functionality of foraging habitat quality
-2	No clear evidence of feeding debris.	No clear evidence of feeding debris.	No clear evidence of feeding debris.
-2	No other foraging habitat within 6 km.	No other foraging habitat within 6 km.	No other foraging habitat within 6 km.
-1	Is > 12 km from a known breeding location.	Is > 12 km from a known breeding location.	Is > 12 km from a known breeding location.
-1	Is > 12 km from a known roosting site.	Is > 12 km from a known roosting site.	Is > 12 km from a known roosting site.
-1	Is > 2 km from a watering point.	Is > 2 km from a watering point.	Is > 2 km from a watering point.
-1	Disease present (e.g. <i>Phytophthora cinnamomi</i> or marri canker).	Disease present (e.g. <i>Phytophthora cinnamomi</i> or marri canker).	Disease present (e.g. <i>Phytophthora cinnamomi</i> or marri canker).
FINAL SCORE	$7+(3;2;2)-(2) =$ 10 (max score)	$7+(3;2;2)-(2) =$ 10 (max score)	$7+(7) =$ 10 (max score)

5 Discussion

5.1 Flora of Conservation Significance

The one Threatened species in *Conospermum undulatum* (DRF/T) that was recorded within the Survey Area is an erect shrub to 1.5 m tall and occurs on sand and sandy clay soils, often over laterite, on flat or gently sloping sites. The specimens found in the Survey Area were within intact native vegetation of Banksia and Eucalyptus woodland in Very Good to Excellent Condition. It was recorded in the Survey Area in eight locations. The vegetation within the buffers of the species are considered critical habitat and therefore are regarded as ESAs.

Of the remaining potential Threatened species, 28 are unlikely, one is possible and two are likely. Two of these potential species, *Banksia mimica* and *Macarthuria keighery*, are perennial so would have been detectable at the time of the survey. One species, *Thelymitra stellata*, is a tuberous perennial herb (orchid) and the survey was undertaken within the flowering period of this species, therefore if it was present it would have been recorded.

One Priority species, *Isopogon drummondii* (P3), was found in one remnant of vegetation and is a shrub that grows to 0.5-1 m high and is often found on white, grey or yellow sand, often over laterite. The presence of this P3 species does not form a statutory constraint for the Survey Area. There is no written policy on how to respond to the presence of priority flora species within proposed development sites. The presence of the species is dealt with by DER on a case by case basis. One Priority species, *Isopogon drummondii* (P3), was found in one remnant of vegetation and is a shrub that grows to 0.5-1 m high and is often found on white, grey or yellow sand, often over laterite. The presence of this P3 species does not form a statutory constraint for the Survey Area. There is no written policy on how to respond to the presence of priority flora species within proposed development sites. The presence of the species is dealt with by DER on a case by case basis.

A further 64 priority flora taxa were identified as potentially occurring in the Survey Area based on database searches. Of the potential Priority species, 11 are considered likely to occur, two are considered possible, 42 as unlikely and nine as unknown. These species considered unknown have very little information available on their ecology i.e. habitat type and preference and their distribution. Nine of the potential species are perennial so would have been detectable at the time of the survey. Two of the potential annual species; *Asteridea gracilis* and *Comesperma rhadinocarpum* would have been detectable during the survey based on the species flowering period. *Thelymitra variegata*, however, may not of been identifiable at the time of the survey based on the species June to September flowering period. *Haemodorum loratum*, also may not of been identifiable at the time of the survey based on the species November flowering period.

5.2 Vegetation of Conservation Significance

A desktop search identified four PECs and 11 TECs as potentially occurring within the Survey Area, with twelve listed under the EPBC Act.

The statistical analysis resulted in BmAf, EmAf vegetation associations being most affiliated with FCT SCP20a – *Banksia attenuata* woodlands over species rich dense shrublands. This FCT is listed as a TEC under State legislation. It is also listed as sub-community under the EPBC Act listed *Banksia* woodlands of the Swan Coastal Plain (DEE 2016). For vegetation remnants to be under full national protection the community has to meet key diagnostic characteristics. Regarding the presence of the TEC, the Approved Conservation Advice for the thresholds state that for vegetation in Excellent Condition the minimum patch size should be 0.5 ha, while vegetation in Very Good condition should be a minimum of one hectare and vegetation in Good condition should be a minimum of two hectares. If a vegetation patch is considered Degraded or worse, it is not considered favourable for national protection.

There are approximately 3.21 ha of FCT SCP20a in the Survey Area, however the occurrences are fragmented and of different condition ratings. Based on this information, and the survey results, there is one remnant of FCT SCP 20a in the Survey Area that would warrant National Protection for preserving examples of FCT SCP 20a. This is the vegetation represented by vegetation association EmAf as it ranges in condition from Excellent to Good and joins Bush Forever site 122 which is known to contain FCT SCP20a. The remaining remnants of 20a are unlikely to warrant National Protection as one remnant that's in Good to Degraded condition equates to 0.85 ha and another equates to 1.86 ha which has 1.12 ha in Good to Very Good condition with the remainder being in Degraded condition. It is important to note though, that this vegetation association (BmAf) also contains the specimens of *Conospermum undulatum* (T).

Vegetation association CcBs and CcEmAf have been determined to have affiliation with FCT SCP3c - *Corymbia calophylla* – *Xanthorrhoea preissii* woodlands and shrublands of the Swan Coastal Plain which is listed as Critically Endangered under State legislation and Endangered under the EPBC Act. These remnants equate to 1.96 ha in Good to Degraded condition. The vegetation has very low diversity and is dominated by weed species. The occurrence of CcEmAf is surrounded by roads and has an island in the middle of a major intersection.

Possible impacts to TECs are taken into account by State assessment bodies when applications to develop or clear land are evaluated. Under the EP Act, any clearing of native vegetation requires a permit unless done for an exempt purpose. These exemptions do not apply in ESAs. TECs have been defined under the regulations as ESAs so the exemptions from requiring a clearing permit do not apply. Any such clearing proposal, therefore, must be undertaken under a specific permit and be assessed for any environmental impact.

5.3 ESAs

The southern half of the Survey Area (between Maida Vale Road and Berkshire Road) has been identified as an ESA referring to the presence of a nearby TEC and geomorphic wetland to the west of the Survey Area. The northern end of the Survey Area is also mapped as an ESA, accounting for Bush Forever Site 122, which has been identified as containing a TEC.

The presence of *Conospermum undulatum* (DRF/T) means the habitat and buffers that surround these species are protected. The vegetation within the buffers are considered critical habitat and therefore are regarded as ESAs.

The locations of TEC SCP20a - *Banksia attenuata* woodlands over species dense shrublands in the Survey Area has also been identified as an ESA as well as locations of FCT SCP3c - *Corymbia calophylla* – *Xanthorrhoea preissii* woodlands and shrublands of the Swan Coastal Plain.

ESAs are declared to prevent degradation of important environmental values such as T/DRF, TECs or significant wetlands. Exemptions contained in the Environmental Protection (Clearing of Native vegetation) Regulations 2004 for low impact land clearing do not apply in ESAs and a native vegetation clearing permit is required.

5.4 Vegetation Condition and Introduced Flora

Vegetation condition ranged from Excellent to Completely Degraded. The majority of the vegetation is considered to be in Degraded to Completely Degraded condition (14.87 ha, 18.47%) (excluding completely Degraded/Cleared). Historical vegetation clearing, weeds, road infrastructure and residential development within and adjacent to the survey area were the most frequently observed impacts on native vegetation. The vegetation along the length of the route is extremely fragmented and the majority of the site consists of non-endemic species, gardens and weeds. There are however several remnants of intact native vegetation in the northern end of the Survey Area.

The four introduced weed species in **Asparagus asparagoides*, **Zantedeschia aethiopica*, **Echium plantagineum* and **Opuntia stricta* are listed as Declared Pests under the BAM Act with **Asparagus asparagoides* and **Opuntia stricta* listed as WONS. The land-use in the Survey Area has been a source of extensive weed infestations and therefore is a dominant feature of the Survey Area. Due to the scale of weed cover, a comprehensive weed list was not produced. The majority of these weeds are common bushland and agricultural weeds (Hussey et al. 2007).

5.5 Regional Representation

The Perth Biodiversity Project (PBP) has mapped native vegetation extent by vegetation complex on the Swan Coastal Plain. The EPA recognises vegetation complexes that are not well represented as being significant. Vegetation complexes which have 10-30%

remaining may be considered regionally significant. Proposals that would affect a vegetation complex with 10% or less remaining are likely to be formally assessed by the EPA (EPA 2006).

These levels may be modified for 'Constrained Areas'. Such areas include the Swan Coastal Plain portion of the Perth Metropolitan Region (in which the Survey Area lies), and may include urban, urban deferred and industrial zoned lands, and lands with development approvals.

The modified objectives for Constrained Areas are to:

- Retain at least 10% of the pre-clearing extent of the ecological community where >10% of the ecological community remains; or
- Retain all remaining areas of each ecological community where <10% of this ecological community remains.

The remaining extent of the vegetation complex in the Survey Area is greater than the 10% threshold set by the EPA for protecting Australia's biological diversity in constrained areas.

5.6 Fauna of Conservation Significance

The two conservation significant fauna species recorded during the Survey in the Quenda and the Forest Red-tailed Black Cockatoo are further discussed in relation to the habitat and regional impact.

Southern Brown Bandicoot, Quenda (Listed Priority 5)

The Southern Brown Bandicoot, Quenda is listed as Priority 5 under the DBCA Priority List. It once occurred throughout south-west WA and now occurs from Guilderton southwards on the Swan Coastal Plain. The species has also been recorded in the Jarrah and Karri forests and adjacent coastal vegetation complexes in the south-west region of WA. The species inhabits scrubby, often swampy, vegetation with dense cover up to about 1m high. It feeds in adjacent forest and woodland that is burnt on a regular basis and in areas of pasture and cropland lying close to dense cover. The Quenda is patchily distributed in suitable habitat, with populations inhabiting Jarrah and Wandoo forests usually associated with watercourses. On the Swan Coastal Plain it is often associated with wetlands with dense vegetation where they feed on fruit, seeds, insects and fungi (Woinarski *et al.* 2012).

The species is relatively common within the local region and will be utilising the Marri/Jarrah Forest and Banksia Woodland fauna habitat, as well as the drainage line fauna feature, within the Survey Area.

Any negative disturbance to the following fauna habitats will likely negatively impact the resident individuals. However, these individuals can be relocated prior to disturbance to minimise the impact on the individuals.

The species is relatively common within the Darling Range and foothills. An impact to the individuals within the Survey Areas is unlikely to significantly impact the species. However, mitigation measures will greatly reduce any potential impact that may occur.

Forest Red-tailed Black Cockatoo (Listed Vulnerable)

The Forest Red-tailed Black Cockatoo was recorded within the Survey Area and is discussed below.

5.7 Black Cockatoo Assessment

The Survey Area is located within known distribution and foraging habitat for of Forest Red-tailed Black Cockatoo, Baudin's Black Cockatoo, and Carnaby's Black Cockatoo.

Forest Red-tailed Black Cockatoo (Listed Vulnerable)

Due to the high density of foraging evidence and numerous observations of individuals recorded during the Assessment it is obvious that the Survey Area is an important foraging habitat for the species. The Survey Area offers substantially less value in regard to current breeding habitat, with limited appropriate hollows and none that appear to have been used. However there are substantial numbers of potential breeding trees that may develop appropriate hollows over time.

Any negative disturbance within the Survey Area will likely impact the foraging potential of the resident birds and consequently, due to the reduced availability of foraging habitat within the area, may also have an impact on the species. Disturbance is unlikely to affect the breeding potential of the species in the short term; however within the long term an impact within the Survey Area may be significant given the large number of potential breeding trees recorded during the assessment.

Baudin's Black Cockatoo (Listed Vulnerable/Endangered)

Although this species was recorded during the assessment, there remains the potential of this species utilising the area during other times of the year.

The Survey Area is located just within the known foraging area of the species; therefore any local impact may reduce the foraging potential for the species. The Survey Area is not located within the known or predicted breeding range of the species; therefore any local impact is not likely to have any significant impact on the species breeding potential.

Carnaby's Black Cockatoo (Listed Endangered)

The Survey Areas lies within the foraging and breeding range of the species and therefore any negative disturbance within the Survey Area has the potential to impact the species. However with no individuals observed during the assessment and only limited evidence of foraging recorded, the species does not appear to be dependent on the Survey Area for foraging. However with substantial areas of Banksia woodland identified (a known preferred foraging habitat type of the species), any impact to this

habitat type should be considered as significant. Disturbance is unlikely to affect the breeding potential of the species in the short term; however within the long term an impact within the Survey Area may be significant given the large number of potential breeding trees recorded during the assessment.

6 Conclusions and Recommendations

The Detailed Flora and Vegetation survey was undertaken within the recommended season and flowering period for the south west botanical province. The Survey Area was sufficiently surveyed and as such the following conclusions can be drawn:

- One Threatened species listed under the EPBC Act or gazetted as Declared Rare Flora (Threatened) pursuant to the WC Act was recorded in the Survey Area, *Conospermum undulatum* (T);
- One Priority species as listed by DPaW, were recorded in the Survey Area, *Isopogon drummondii* (P3);
- A total of 34 introduced weed species representing 26.5% of the total taxa were recorded during the survey. Four of these in **Asparagus asparagoides*, **Zantedeschia aethiopica*, **Echium plantagineum* and **Opuntia stricta* are listed as Declared Pests under the BAM Act and **Asparagus asparagoides* and **Opuntia stricta* are listed as WONS;
- Results from the statistical analysis and data interpretation indicate that there are two TECs listed under the EPBC Act potentially in the Survey Area, which, are also listed by the State;
- The southern half of the Survey Area (between Maida Vale Road and Berkshire Road) has been identified as an ESA referring to the presence of a nearby TEC and geomorphic wetland to the west of the Survey Area. The northern end of the Survey Area is also mapped as an ESA, accounting for Bush Forever Site 122, which has been identified as containing a TEC;
- Bush Forever Site 45 partially impinges on the southern section of the Survey Area; and
- Two Ecological Linkages (ID: 135 and 42) intersect the southern portion of the Survey Area.

During the Level 1 Fauna survey three broad fauna habitats were identified and mapped in:

- Marri /Jarrah Forest;
- Banksia Woodland; and
- Introduced Eucalypt Woodland.

A total of 27 conservation significant fauna species retrieved from the database searches are considered as either Likely, Possibly or Unlikely to occur in the Survey Area. Of these 27 conservation significant species, two were recorded during the survey (Red-tailed Black Cockatoo and Quenda), two are considered Likely to occur in the Survey

Area (Baudin's Black Cockatoo and Carnaby's Black Cockatoo), five are considered possible and 18 are considered Unlikely to occur within the Survey Area.

The fauna assessment was undertaken at a time considered appropriate for the species of conservation significance considered likely to be present on site. The following conclusions can be made:

- During the desktop review of database searches, 27 conservation significant species were identified;
- Two species of conservation significance were recorded in the Survey Area;
- A total of 22.65 ha of Black Cockatoo foraging habitat was recorded in the Survey Area;
- Red-tailed Black Cockatoo foraging evidence was recorded in the Survey Area;
- A total of 401 Black Cockatoo potential breeding trees were recorded; and
- Three broad fauna habitats were identified in the Survey Area.

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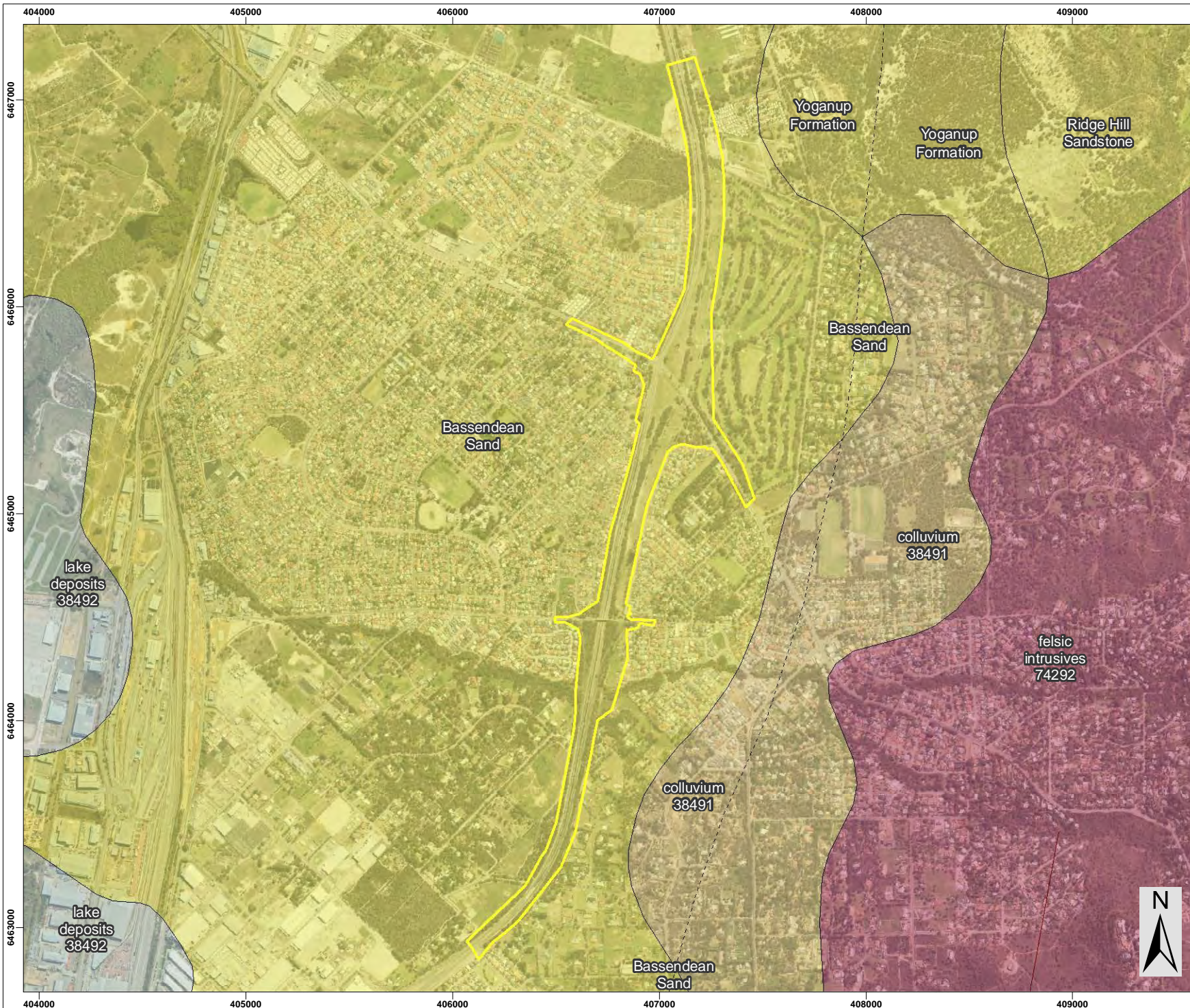
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It is important to recognise that site conditions, including the extent and concentration of contaminants, can change with time. This is particularly relevant if this report, including the data, opinions, conclusions and recommendations it contains,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

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FIGURES



Legend

- Site Boundary

QUATERNARY

- Qdcb
- Qdci
- Qdcy
- Qrc
- Qt

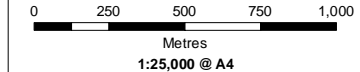
ARCHEAN

- Ag
- Dyke or vein
- Fault, concealed
- Geological boundary

NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
 LOCALITY MAP SOURCED LANDGATE 2008
 AERIAL PHOTOGRAPHY SOURCED LANDGATE 2017
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LOCALITY MAP



PROJECT ID 2385	DATE 28/11/2017
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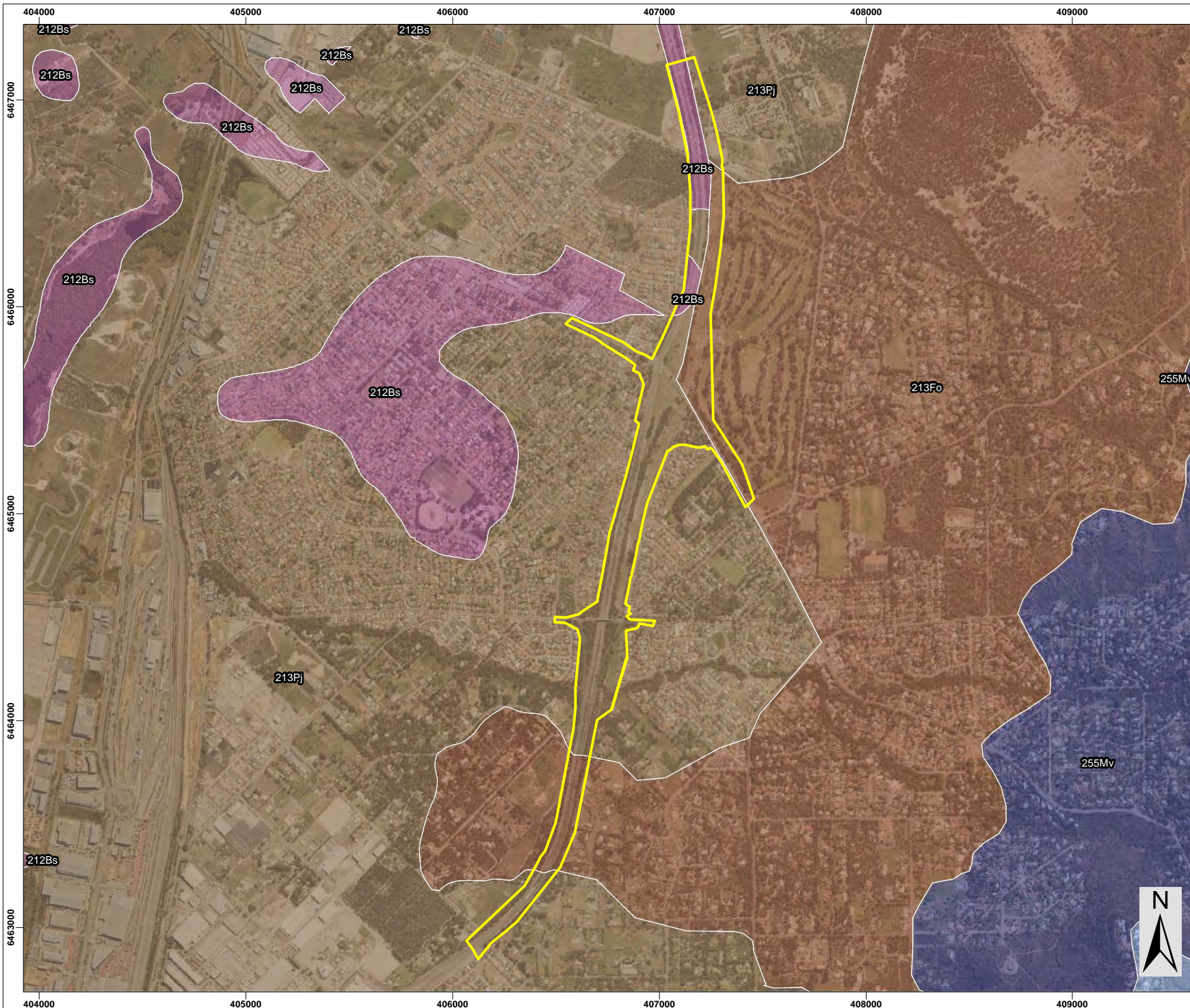
HORIZONTAL DATUM AND PROJECTION
 GDA 1994 MGA Zone 50

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Main Roads WA
 Roe Hwy and Kalamunda Rd Upgrade

Flora, vegetation and Fauna
 Assessment

Figure 3
 Surface Geology



Legend

Site Boundary

Soil and Land Systems

Bassendean System, 212Bs: Swan Coastal Plain from Busseton to Jurien. Sand dunes and sandplains with pale deep sand, semi-wet and wet soil. Banksia-paperbark woodlands and mixed heaths.

Forrestfield System, 213Fo: Undulating foot slopes of the Darling and Whicher Scarps. Duplex sandy gravels, pale deep sands and grey deep sandy duplexes. Woodland of *E.marginata*, *calophylla* and wandoo and some *B.grandis*.

Pinjarra System, 213Pj: Swan Coastal Plain from Perth to Capel. Poorly drained coastal plain with variable alluvial and aeolian soils. Variable vegetation includes Jarrah, marri, wandoo, paperbark sheoaks and rudis.

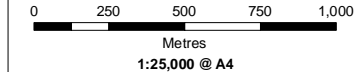
Darling Plateau System, 255Dp: Lateritic plateau. Duplex sandy gravels, loamy gravels and wet soils. Jarrah-marri-wandoo forest and woodland.

Murray Valleys System, 255Mv: Western Darling Range from the Avon Valley to Harvey. Deeply incised valleys with red loamy earths, shallow duplexes and rock outcrop and Jarrah-marri-wandoo forest and woodland with mixed shrubland

- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
- LOCALITY MAP SOURCED LANDGATE 2006
- AERIAL PHOTOGRAPHY SOURCED LANDGATE 2017
- SOIL AND LAND SYSTEMS SOURCED DNFWA 2012
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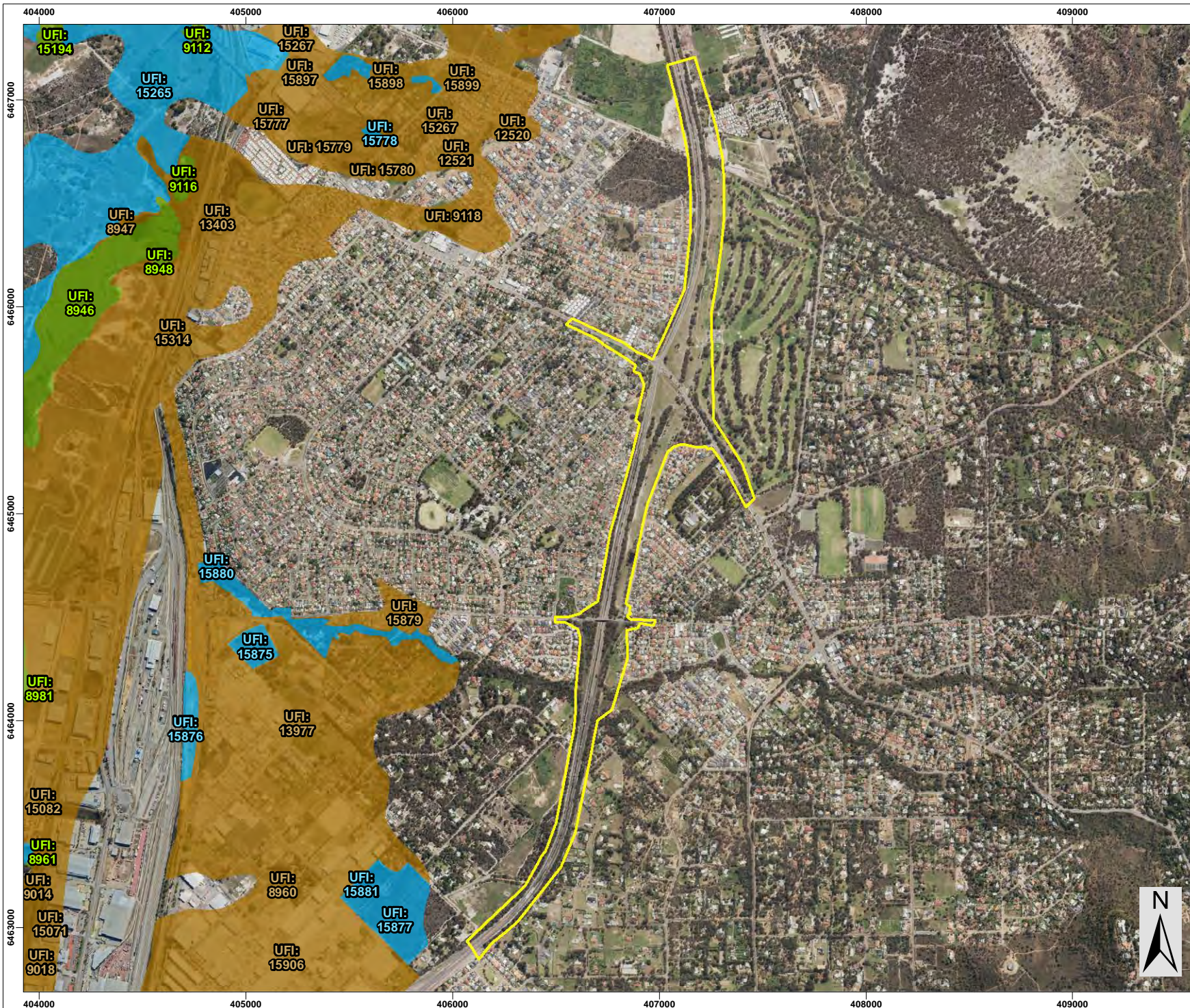
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HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
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MRWA
Roe Hwy and Kalamunda Rd Upgrade

Flora, Vegetation and Fauna Assessment
Figure 4
Land Systems



Legend

- Site Boundary
- Geomorphic Wetlands**
 - Conservation
 - Resource Enhancement
 - Multiple Use
 - Not Assessed

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

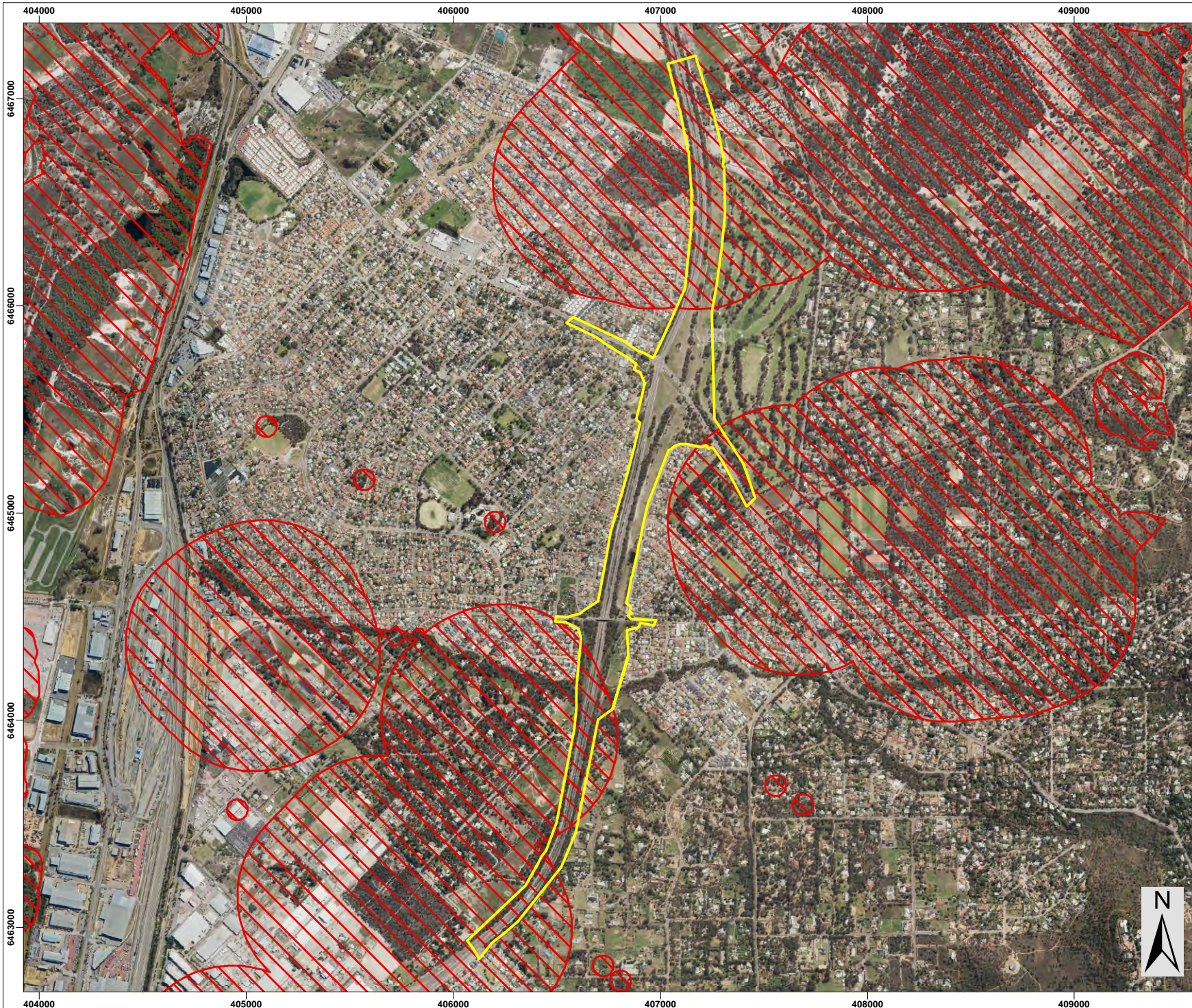
PROJECT ID 2385		DATE 28/11/2017	
HORIZONTAL DATUM AND PROJECTION GDA 1994 MGA Zone 50			
CREATED JA	CHECKED CL	APPROVED NW	REVISION 0

Main Roads WA
Roe Hwy and Kalamunda Rd Upgrade

Flora, vegetation and Fauna Assessment

Figure 5

Geomorphic Wetlands

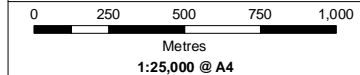


- ### Legend
- Site Boundary
 - Environmentally Sensitive Areas

- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
 - LOCALITY MAP SOURCED LANDGATE 2006
 - AERIAL PHOTOGRAPHY SOURCED LANDGATE 2017
 - ESA SOURCED DER 2015
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LOCALITY MAP

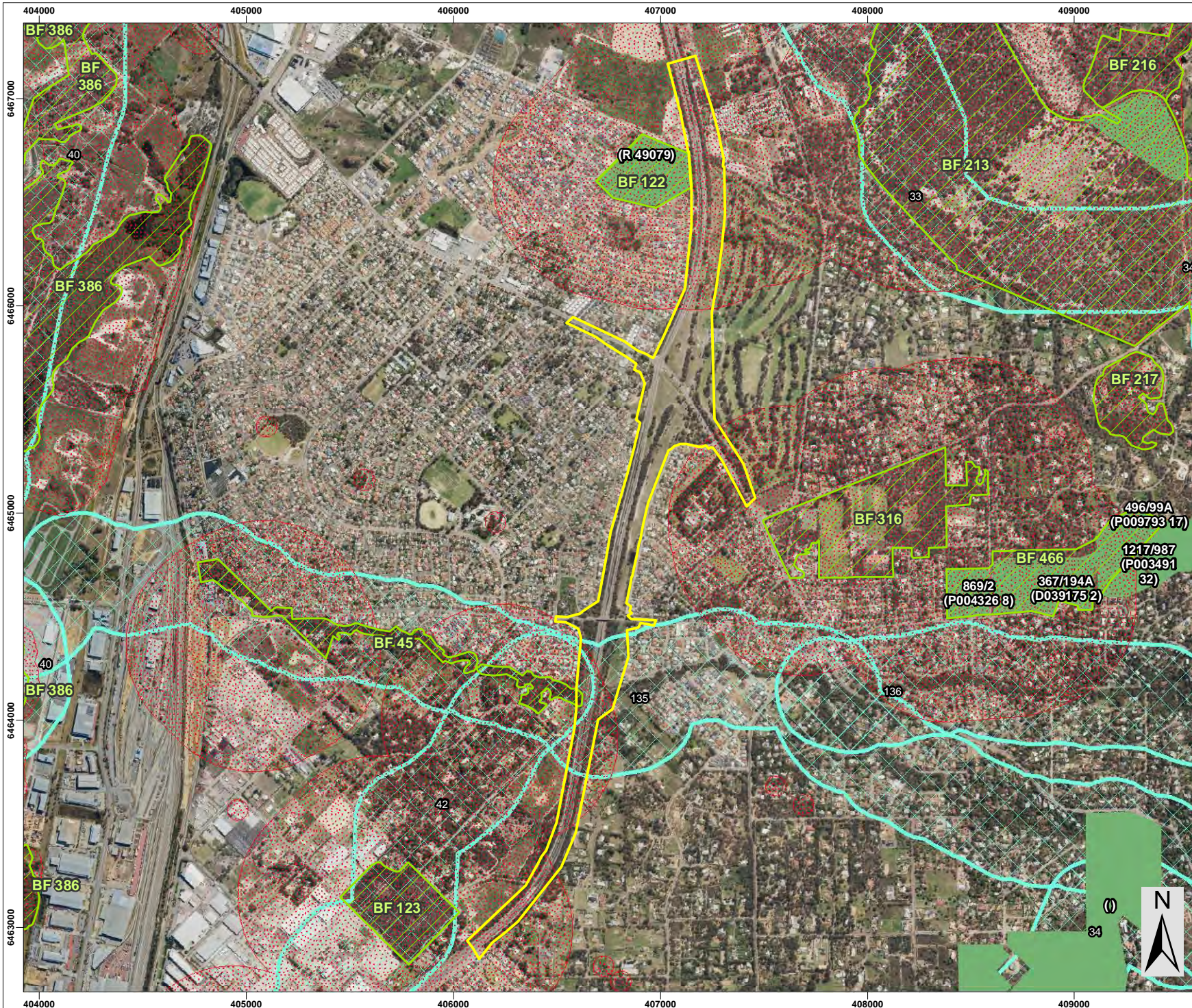


PROJECT ID 2385		DATE 24/11/2017	
HORIZONTAL DATUM AND PROJECTION GDA 1994 MGA Zone 50			
CREATED EW	CHECKED NW	APPROVED NW	REVISION 0

MRWA
 Roe Hwy and Kalamunda Rd
 Interchange

Roe Hwy Kalamunda Rd Biological
 Survey

Figure 8
 Environmentally Sensitive Areas

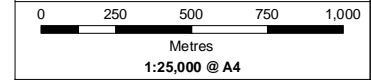


- ### Legend
- Site Boundary
 - Environmentally Sensitive Areas
 - Bush Forever Sites
 - DPAW Managed Lands
 - Perth Regional Ecological Linkages

- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
 - LOCALITY MAP SOURCED LANDGATE 2006
 - AERIAL PHOTOGRAPHY SOURCED LANDGATE 2017
 - ESA SOURCED DER 2015
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LOCALITY MAP

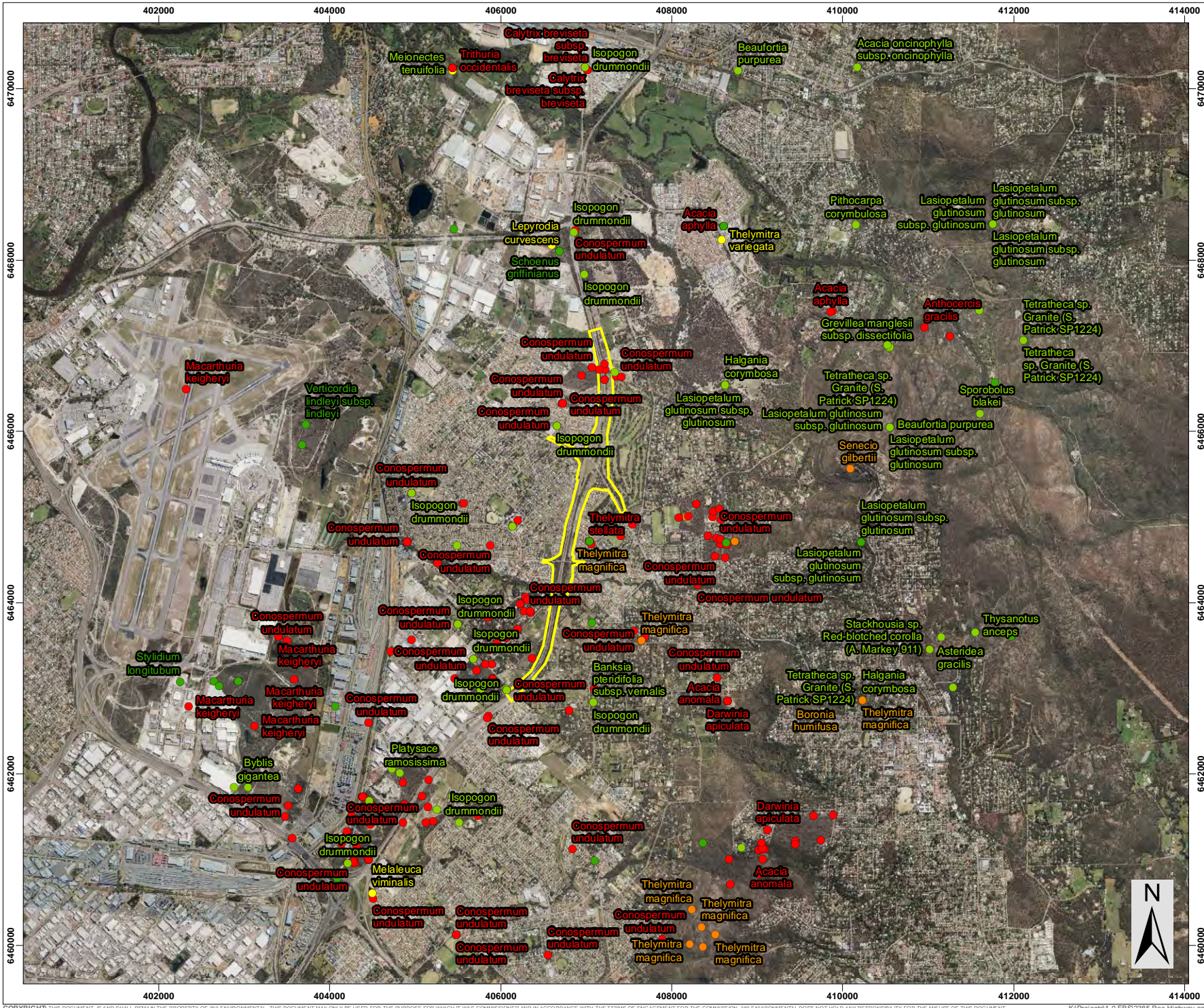


PROJECT ID 2385		DATE 16/01/2018	
HORIZONTAL DATUM AND PROJECTION GDA 1994 MGA Zone 50			
CREATED JA	CHECKED CL	APPROVED NW	REVISION 0

Main Roads WA
Roe Hwy and Kalamunda Rd Upgrade

Flora, vegetation and Fauna
Assessment

Figure 7
Conservation Areas

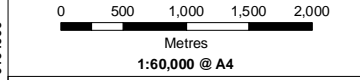


- ### Legend
- Site Boundary
- ### Rare and Priority Flora
- Priority 4
 - Priority 3
 - Priority 2
 - Priority 1
 - Declared Rare

- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
 - LOCALITY MAP SOURCED LANDGATE 2006
 - AERIAL PHOTOGRAPHY SOURCED LANDGATE 2017
 - RARE AND PRIORITY FLORA SOURCED DBCA 2017
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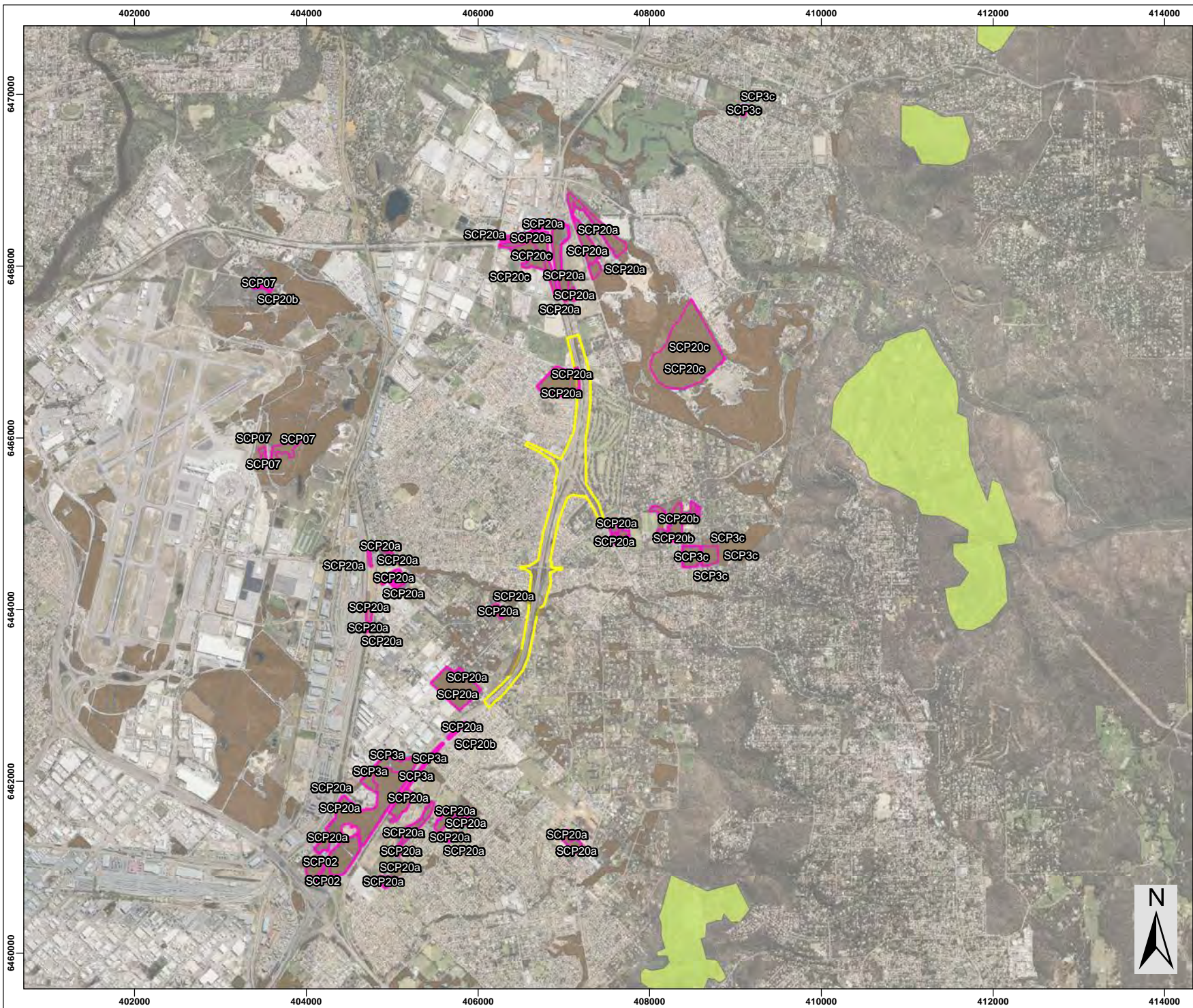
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HORIZONTAL DATUM AND PROJECTION GDA 1994 MGA Zone 50			
CREATED EW	CHECKED NW	APPROVED NW	REVISION 0

MRWA
 Roe Hwy and Kalamunda Rd Interchange

Roe Hwy Kalamunda Rd Biological Survey

Figure 8a

DBCAs Priority Flora Records

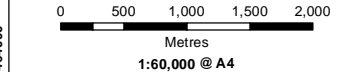


- Legend**
- Site Boundary
 - TEC and PEC**
 - SCP
 - Banksia Woodlands of the Swan Coastal Plain
 - Central Granite Shrublands (Com 5, Markey)

- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
 - LOCALITY MAP SOURCED LANDGATE 2017
 - AERIAL PHOTOGRAPHY SOURCED LANDGATE 2017
 - TEC and PEC SOURCED DSCA 2017
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LOCALITY MAP



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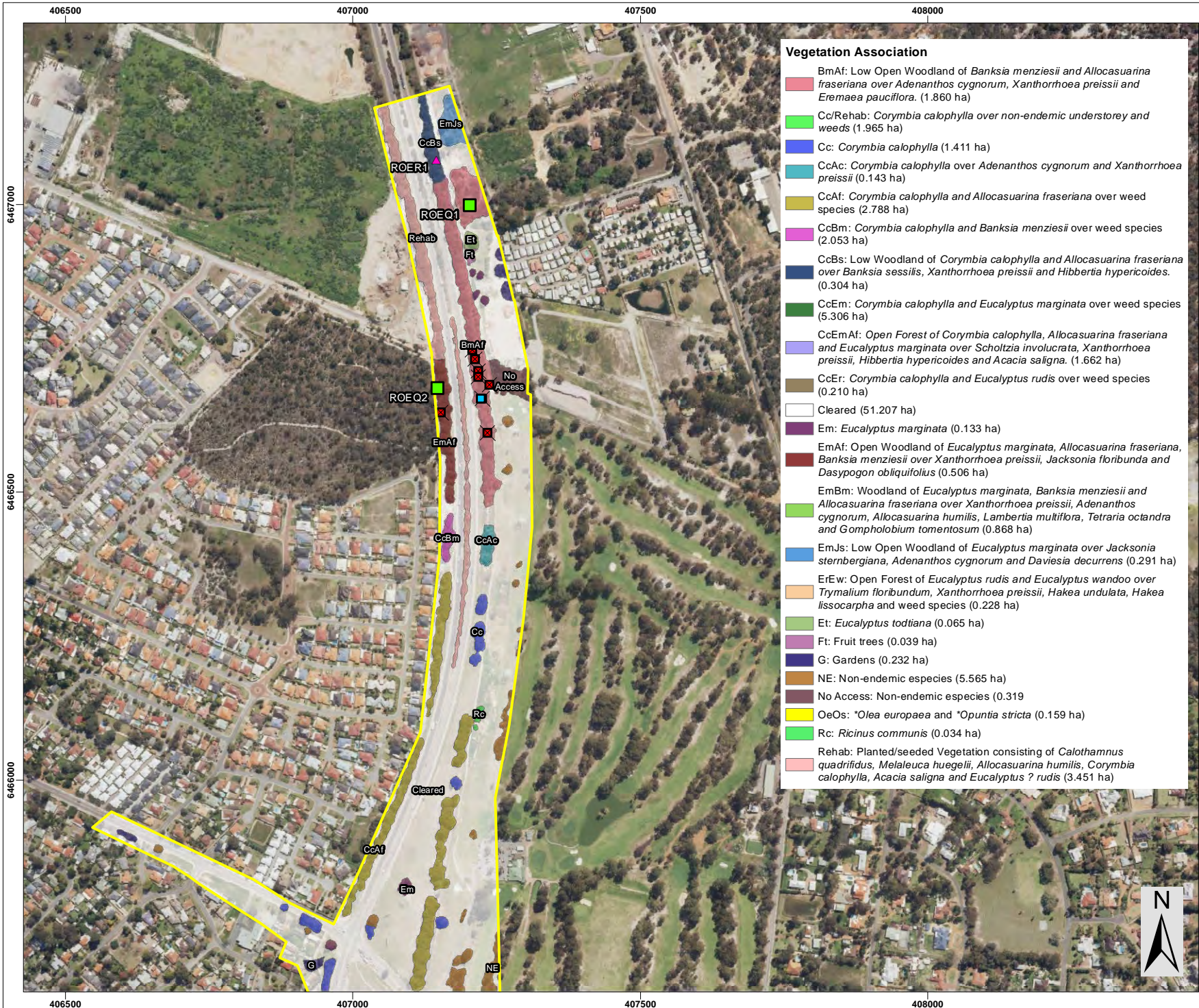
HORIZONTAL DATUM AND PROJECTION
 GDA 1994 MGA Zone 50

CREATED SL	CHECKED SL	APPROVED NW	REVISION 0
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MRWA
 Roe Hwy and Kalamunda Rd
 Interchange

Roe Hwy Kalamunda Rd Biological
 Survey

Figure 8b
 TEC and PEC



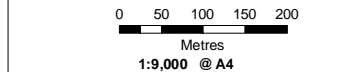
- ### Vegetation Association
- BmAf: Low Open Woodland of *Banksia menziesii* and *Allocasuarina fraseriana* over *Adenanthos cygnorum*, *Xanthorrhoea preissii* and *Eremaea pauciflora*. (1.860 ha)
 - Cc/Rehab: *Corymbia calophylla* over non-endemic understorey and weeds (1.965 ha)
 - Cc: *Corymbia calophylla* (1.411 ha)
 - CcAc: *Corymbia calophylla* over *Adenanthos cygnorum* and *Xanthorrhoea preissii* (0.143 ha)
 - CcAf: *Corymbia calophylla* and *Allocasuarina fraseriana* over weed species (2.788 ha)
 - CcBm: *Corymbia calophylla* and *Banksia menziesii* over weed species (2.053 ha)
 - CcBs: Low Woodland of *Corymbia calophylla* and *Allocasuarina fraseriana* over *Banksia sessilis*, *Xanthorrhoea preissii* and *Hibbertia hypericoides*. (0.304 ha)
 - CcEm: *Corymbia calophylla* and *Eucalyptus marginata* over weed species (5.306 ha)
 - CcEmAf: Open Forest of *Corymbia calophylla*, *Allocasuarina fraseriana* and *Eucalyptus marginata* over *Scholtzia involucrata*, *Xanthorrhoea preissii*, *Hibbertia hypericoides* and *Acacia saligna*. (1.662 ha)
 - CcEr: *Corymbia calophylla* and *Eucalyptus rudis* over weed species (0.210 ha)
 - Cleared (51.207 ha)
 - Em: *Eucalyptus marginata* (0.133 ha)
 - EmAf: Open Woodland of *Eucalyptus marginata*, *Allocasuarina fraseriana*, *Banksia menziesii* over *Xanthorrhoea preissii*, *Jacksonia floribunda* and *Dasygopon obliquifolius* (0.506 ha)
 - EmBm: Woodland of *Eucalyptus marginata*, *Banksia menziesii* and *Allocasuarina fraseriana* over *Xanthorrhoea preissii*, *Adenanthos cygnorum*, *Allocasuarina humilis*, *Lambertia multiflora*, *Tetraria octandra* and *Gompholobium tomentosum* (0.868 ha)
 - EmJs: Low Open Woodland of *Eucalyptus marginata* over *Jacksonia sternbergiana*, *Adenanthos cygnorum* and *Daviesia decurrens* (0.291 ha)
 - ErEw: Open Forest of *Eucalyptus rudis* and *Eucalyptus wandoo* over *Tymalium floribundum*, *Xanthorrhoea preissii*, *Hakea undulata*, *Hakea lissocarpha* and weed species (0.228 ha)
 - Et: *Eucalyptus todiana* (0.065 ha)
 - Ft: Fruit trees (0.039 ha)
 - G: Gardens (0.232 ha)
 - NE: Non-endemic species (5.565 ha)
 - No Access: Non-endemic species (0.319 ha)
 - OeOs: **Olea europaea* and **Opuntia stricta* (0.159 ha)
 - Rc: *Ricinus communis* (0.034 ha)
 - Rehab: Planted/seeded Vegetation consisting of *Calothamnus quadrifidus*, *Melaleuca huegelii*, *Allocasuarina humilis*, *Corymbia calophylla*, *Acacia saligna* and *Eucalyptus ? rudis* (3.451 ha)

- ### Legend
- Site Boundary
 - Quadrat
 - Relieves
- ### Significant Flora Locations
- #### Species
- Conospermum undulatum* [T]
 - Isopogon drummondii* (P3)

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



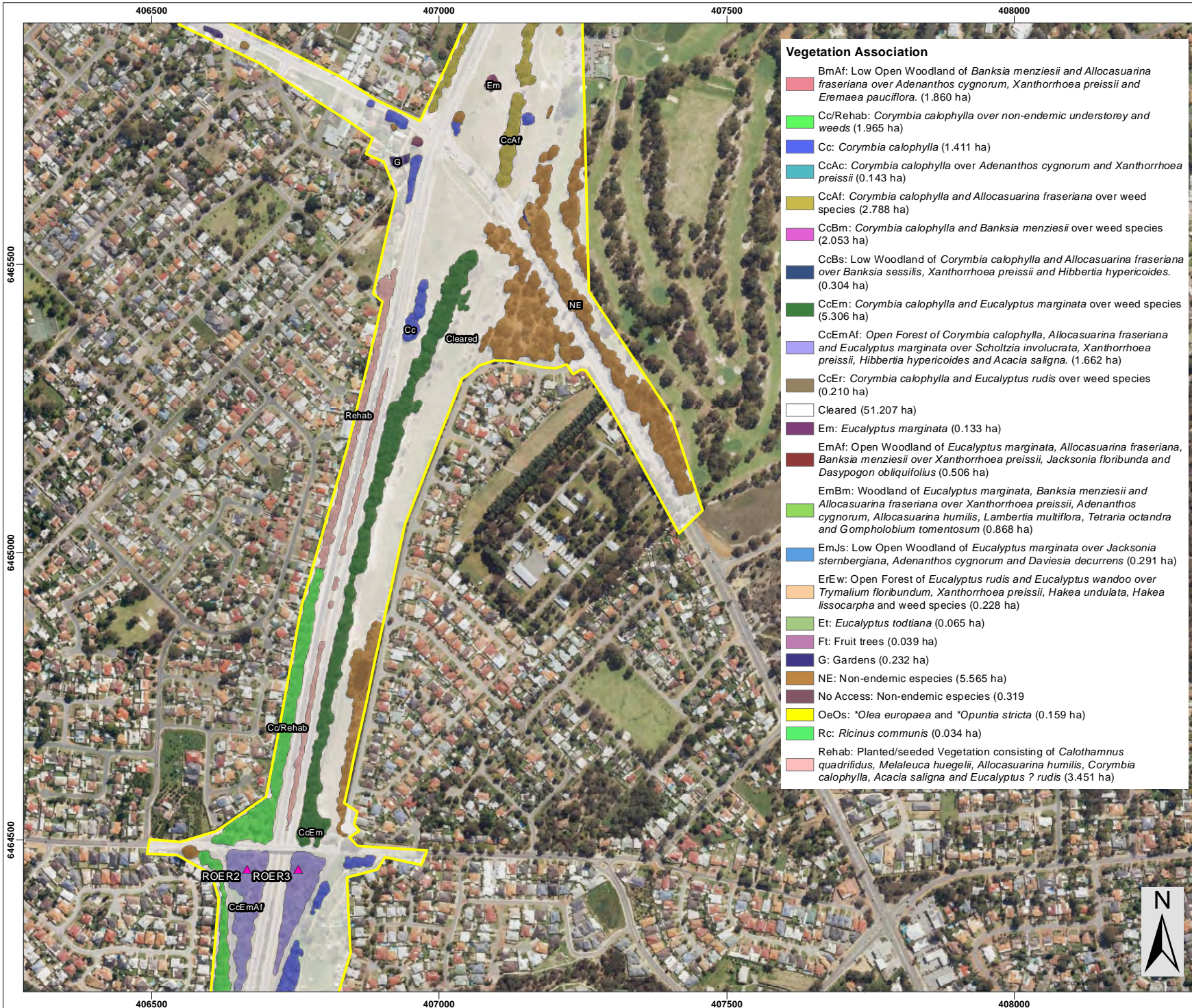
PROJECT ID 2385		DATE 14/02/2018	
HORIZONTAL DATUM AND PROJECTION GDA 1994 MGA Zone 50			
CREATED DV	CHECKED NW	APPROVED NW	REVISION 0

MRWA
Roe Hwy and Kalamunda Rd Interchange

Roe Hwy Kalamunda Rd Biological Survey

Figure 9a

Vegetation Associations



Vegetation Association

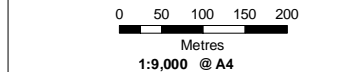
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- CcEm: *Corymbia calophylla* and *Eucalyptus marginata* over weed species (5.306 ha)
- CcEmAf: Open Forest of *Corymbia calophylla*, *Allocasuarina fraseriana* and *Eucalyptus marginata* over *Scholtzia involucrata*, *Xanthorrhoea preissii*, *Hibbertia hypericoides* and *Acacia saligna*. (1.662 ha)
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- Em: *Eucalyptus marginata* (0.133 ha)
- EmAf: Open Woodland of *Eucalyptus marginata*, *Allocasuarina fraseriana*, *Banksia menziesii* over *Xanthorrhoea preissii*, *Jacksonia floribunda* and *Dasygogon obliquifolius* (0.506 ha)
- EmBm: Woodland of *Eucalyptus marginata*, *Banksia menziesii* and *Allocasuarina fraseriana* over *Xanthorrhoea preissii*, *Adenanthos cygnorum*, *Allocasuarina humilis*, *Lambertia multiflora*, *Tetraria octandra* and *Gompholobium tomentosum* (0.868 ha)
- EmJs: Low Open Woodland of *Eucalyptus marginata* over *Jacksonia sternbergiana*, *Adenanthos cygnorum* and *Daviesia decurrens* (0.291 ha)
- ErEw: Open Forest of *Eucalyptus rudis* and *Eucalyptus wandoo* over *Tymalium floribundum*, *Xanthorrhoea preissii*, *Hakea undulata*, *Hakea lissocarpha* and weed species (0.228 ha)
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- Ft: Fruit trees (0.039 ha)
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- NE: Non-endemic species (5.565 ha)
- No Access: Non-endemic species (0.319 ha)
- OeOs: **Olea europaea* and **Opuntia stricta* (0.159 ha)
- Rc: *Ricinus communis* (0.034 ha)
- Rehab: Planted/seeded Vegetation consisting of *Calothamnus quadrifidus*, *Melaleuca huegellii*, *Allocasuarina humilis*, *Corymbia calophylla*, *Acacia saligna* and *Eucalyptus ? rudis* (3.451 ha)

- Legend**
- Site Boundary
 - ▲ Reliefs
- Significant Flora Locations Species**
- ✕ *Conospermum undulatum* [T]
 - *Isopogon drummondii* (P3)

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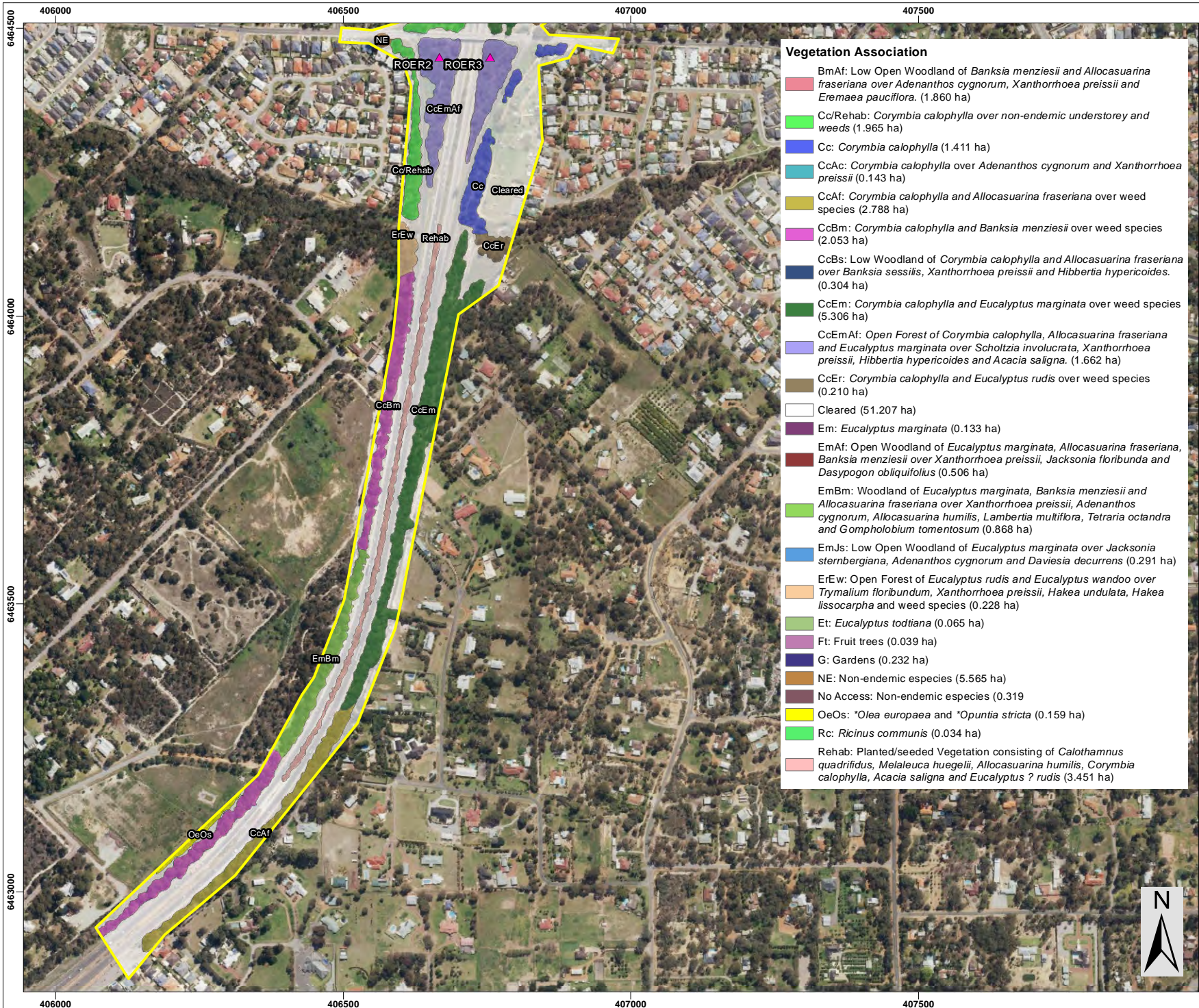


PROJECT ID 2385		DATE 14/02/2018	
HORIZONTAL DATUM AND PROJECTION GDA 1994 MGA Zone 50			
CREATED DV	CHECKED NW	APPROVED NW	REVISION 0

MRWA
Roe Hwy and Kalamunda Rd Interchange

Roe Hwy Kalamunda Rd Biological Survey

Figure 9b
Vegetation Associations



- ### Vegetation Association
- BmAf: Low Open Woodland of *Banksia menziesii* and *Allocasuarina fraseriana* over *Adenanthos cygnorum*, *Xanthorrhoea preissii* and *Eremaea pauciflora*. (1.860 ha)
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 - EmJs: Low Open Woodland of *Eucalyptus marginata* over *Jacksonia sternbergiana*, *Adenanthos cygnorum* and *Daviesia decurrens* (0.291 ha)
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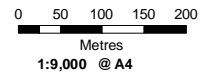
- ### Legend
- Site Boundary
 - Reliefs
- ### Significant Flora Locations Species
- Conospermum undulatum* [T]
 - Isopogon drummondii* (P3)

- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
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CREATED DV	CHECKED NW	APPROVED NW	REVISION 0

MRWA
 Roe Hwy and Kalamunda Rd
 Interchange

Roe Hwy Kalamunda Rd Biological
 Survey

Figure 9c
 Vegetation Associations



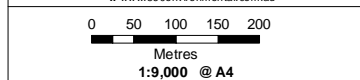
Legend

- Site Boundary
- Vegetation Condition**
- E: Excellent (0.33 ha)
- VG: Very Good (0.80 ha)
- VG - G: Very Good - Good (0.44 ha)
- G: Good (0.58 ha)
- G - D: Good - Degraded (1.97 ha)
- D: Degraded (4.58 ha)
- D - CD: Degraded - Completely Degraded (10.29 ha)
- CD: Completely Degraded (61.49 ha)
- No Access (0.32 ha)

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



PROJECT ID 2385	DATE 16/01/2018
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HORIZONTAL DATUM AND PROJECTION
 GDA 1994 MGA Zone 50

CREATED DV	CHECKED NW	APPROVED NW	REVISION 0
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MRWA
 Roe Hwy and Kalamunda Rd
 Interchange

Roe Hwy Kalamunda Rd Biological
 Survey

Figure 10a
 Vegetation Condition

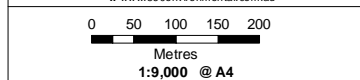


Legend

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LOCALITY MAP



PROJECT ID 2385	DATE 16/01/2018
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HORIZONTAL DATUM AND PROJECTION
 GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
DV	NW	NW	0

MRWA
 Roe Hwy and Kalamunda Rd
 Interchange

Roe Hwy Kalamunda Rd Biological
 Survey
Figure 10b
 Vegetation Condition



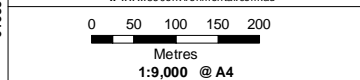


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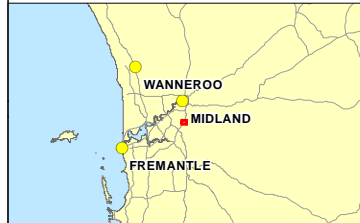
- Site Boundary
- Vegetation Condition**
- E: Excellent (0.33 ha)
- VG: Very Good (0.80 ha)
- VG - G: Very Good - Good (0.44 ha)
- G: Good (0.58 ha)
- G - D: Good - Degraded (1.97 ha)
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LOCALITY MAP



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HORIZONTAL DATUM AND PROJECTION GDA 1994 MGA Zone 50			
CREATED DV	CHECKED NW	APPROVED NW	REVISION 0

MRWA
Roe Hwy and Kalamunda Rd Interchange
 Roe Hwy Kalamunda Rd Biological Survey
Figure 10c
Vegetation Condition



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Legend

- Site Boundary
- Quadrat
- Relieves
- Likely Areas of Threatened Ecological Communities

Floristic Community Types of the Vegetation

- FCT SCP20c: *Banksia attenuata* woodlands over species rich dense shrublands
- FCT SCP3c: *Corymbia calophylla* – *Xanthorrhoea preissii* woodlands and shrublands

DATA SOURCES

- LOCALITY MAP SOURCED LANDGATE 2017
- AERIAL PHOTOGRAPHY SOURCED LANDGATE 2017
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HORIZONTAL DATUM GDA 1994 MGA Zone 50			PROJECT NO 2385	

0 50 100 200 300 400 500
Meters
1:13,000 @ A3

MRWA
Roe Hwy and Kalamunda Rd Interchange

Roe Hwy Kalamunda Rd Biological Survey

Figure 11

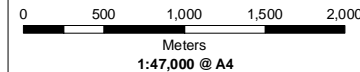


Legend

- Site Boundary
- DBCAs Threatened and Priority Fauna Records**
- *Ardea modesta*
- *Calyptorhynchus banksii naso*
- *Calyptorhynchus baudinii*
- *Calyptorhynchus latirostris*
- *Ctenotus delli*
- *Dasyurus geoffroi*
- *Falco peregrinus*
- *Isosodon obesulus fusciventer*
- *Merops ornatus*
- *Oxyura australis*
- *Pandion haliaetus*
- *Phascogale tapoatafa wambenger*

NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
 - LOCALITY MAP SOURCED LANDGATE 2006
 - AERIAL PHOTOGRAPHY SOURCED LANDGATE 2017
 - RARE AND PRIORITY FLORA SOURCED DBCA 2017
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LOCALITY MAP



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HORIZONTAL DATUM AND PROJECTION GDA 1994 MGA Zone 50			
CREATED EW	CHECKED NW	APPROVED NW	REVISION 0

MRWA
 Roe Hwy and Kalamunda Rd
 Interchange

 Roe Hwy Kalamunda Rd Biological
 Survey
**Figure 12 DBCA Threatened and
 Priority Fauna Records**



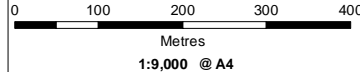
Legend

- Site Boundary
 - Banksia Woodland Habitat Assessment
 - Marri / Jarrah Forest Habitat Assessment
 - Quenda Activity
- Fauna Habitat Classification**
- Banksia Woodland
 - Marri / Jarrah Forest
 - Introduced Eucalypt
 - Cleared

NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
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 AERIAL PHOTOGRAPHY SOURCED LANDGATE 2017
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LOCALITY MAP



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Main Roads WA
Roe Hwy and Kalamunda Rd Upgrade

Flora, Vegetation and Fauna Assessment

Figure 13a
Fauna Habitat within the Survey Area, including Quenda activity



Legend

- Site Boundary
- Introduced Eucalypt Woodland Habitat Assessment
- Marri / Jarrah Forest Habitat Assessment
- Quenda Activity

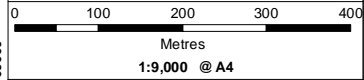
Fauna Habitat Classification

- Banksia Woodland
- Marri / Jarrah Forest
- Introduced Eucalypt
- Cleared

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



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HORIZONTAL DATUM AND PROJECTION GDA 1994 MGA Zone 50			
CREATED DV	CHECKED AH	APPROVED AH	REVISION 0

Main Roads WA
Roe Hwy and Kalamunda Rd Upgrade

Flora, Vegetation and Fauna
Assessment

Figure 13b
Fauna Habitat within the Survey Area,
including Quenda activity



Legend

- Site Boundary
- Banksia Woodland Habitat Assessment
- Marri / Jarrah Forest Habitat Assessment
- Median Strip with Rehabilitation Habitat Assessment
- Drainage Line
- Quenda Activity

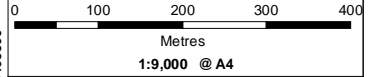
Fauna Habitat Classification

- Banksia Woodland
- Marri / Jarrah Forest
- Introduced Eucalypt
- Cleared

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



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HORIZONTAL DATUM AND PROJECTION GDA 1994 MGA Zone 50			
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**Main Roads WA
 Roe Hwy and Kalamunda Rd Upgrade**

**Flora, Vegetation and Fauna
 Assessment**

**Figure 13c
 Fauna Habitat within the Survey Area,
 including Quenda activity**



406500

407000

407500

408000

6467000

6466500

6466000

6467000

6466500

6466000

406500

407000

407500

408000

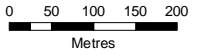
Legend

- Site Boundary
- Banksia 8.260 ha
- Flooded gum 0.324 ha
- Marri/Jarrah Woodland 14.063 ha
- Cleared 58.152 ha

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



PROJECT ID 2385	DATE 19/01/2018
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HORIZONTAL DATUM AND PROJECTION
 GDA 1994 MGA Zone 50

CREATED DV	CHECKED AH	APPROVED AH	REVISION 0
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Main Roads WA
Roe Hwy and Kalamunda Rd Upgrade

Flora, Vegetation and Fauna
Assessment

Figure 14a
Black Cockatoo Foraging Habitat



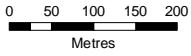
Legend

- Site Boundary
- Banksia 8.260 ha
- Flooded gum 0.324 ha
- Marri/Jarrah Woodland 14.063 ha
- Cleared 58.152 ha

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



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HORIZONTAL DATUM AND PROJECTION GDA 1994 MGA Zone 50			
CREATED DV	CHECKED AH	APPROVED AH	REVISION 0

Main Roads WA
Roe Hwy and Kalamunda Rd Upgrade

Flora, Vegetation and Fauna
Assessment

Figure 14b
Black Cockatoo Foraging Habitat



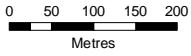
Legend

- Site Boundary
- Banksia 8.260 ha
- Flooded gum 0.324 ha
- Marri/Jarrah Woodland 14.063 ha
- Cleared 58.152 ha

NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
 LOCALITY MAP SOURCED LANDGATE 2008
 AERIAL PHOTOGRAPHY SOURCED LANDGATE 2017
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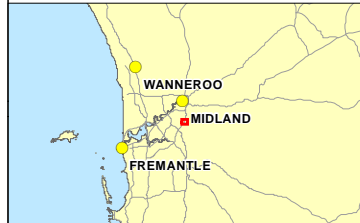
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LOCALITY MAP



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HORIZONTAL DATUM AND PROJECTION GDA 1994 MGA Zone 50			
CREATED DV	CHECKED AH	APPROVED AH	REVISION 0

Main Roads WA
Roe Hwy and Kalamunda Rd Upgrade

Flora, Vegetation and Fauna
Assessment

Figure 14c
Black Cockatoo Foraging Habitat

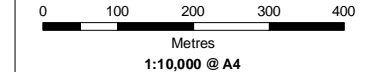


- ### Legend
- Site Boundary
 - Sighting - Forest red-tailed black cockatoo
 - Foraging evidence - Forest red-tailed black cockatoo
 - Foraging evidence - Carnaby's black cockatoo; Foraging evidence - Potential Carnaby's black cockatoo
 -

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CREATED EW	CHECKED AH	APPROVED AH	REVISION 0

MRWA
Roe Hwy and Kalamunda Rd Interchange
 Roe Hwy Kalamunda Rd Biological Survey
Figure 15a
Black Cockatoo Evidence



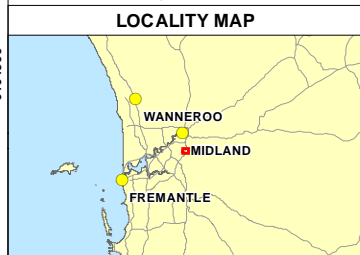
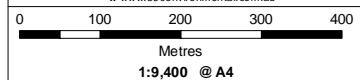
Legend

- Site Boundary
- Sighting - Forest red-tailed black cockatoo
- Foraging evidence - Forest red-tailed black cockatoo
- Foraging evidence - Carnaby's black cockatoo; Foraging evidence - Potential Carnaby's black cockatoo

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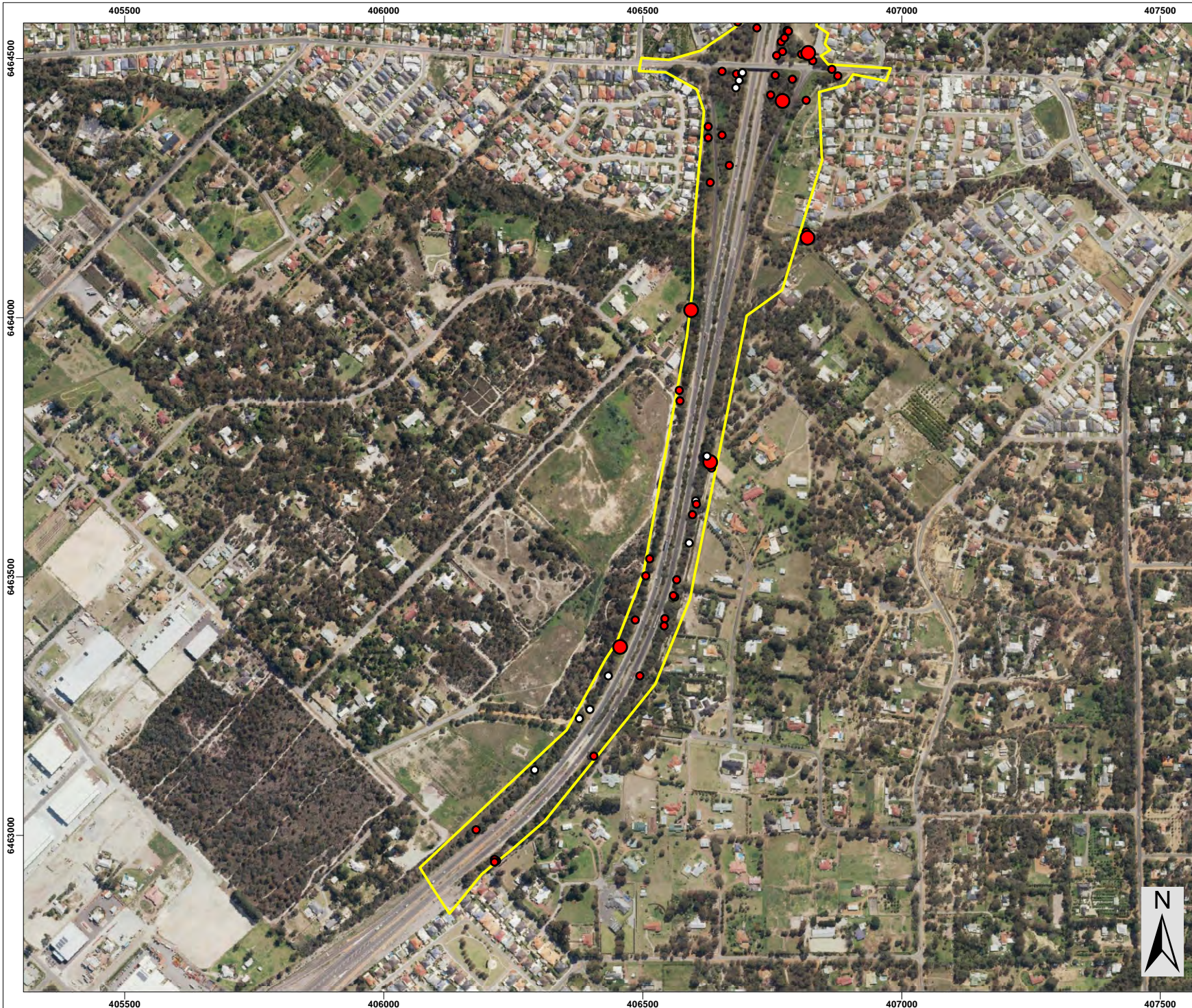


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HORIZONTAL DATUM AND PROJECTION GDA 1994 MGA Zone 50			
CREATED EW	CHECKED AH	APPROVED AH	REVISION 0

MRWA
 Roe Hwy and Kalamunda Rd
 Interchange

Roe Hwy Kalamunda Rd Biological
 Survey

Figure 15b
 Black Cockatoo Evidence



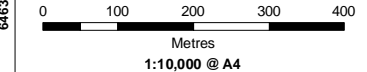
Legend

- Site Boundary
- Sighting - Forest red-tailed black cockatoo
- Foraging evidence - Forest red-tailed black cockatoo
- Foraging evidence - Carnaby's black cockatoo; Foraging evidence - Potential Carnaby's black cockatoo

NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
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 AERIAL PHOTOGRAPHY SOURCED LANDGATE, 2017
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CREATED EW	CHECKED AH	APPROVED AH	REVISION 0

MRWA
Roe Hwy and Kalamunda Rd Interchange

Roe Hwy Kalamunda Rd Biological Survey

Figure 15c
Black Cockatoo Evidence

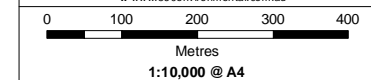


- ### Legend
- Site Boundary
 - Jarrah (*Eucalyptus marginata*), no hollows
 - ⊠ Jarrah (*Eucalyptus marginata*), contains hollows
 - ◆ Marri (*Corymbia calophylla*), no hollows
 - ⊠ Marri (*Corymbia calophylla*), contains hollows
 - ▲ Tuart (*Eucalyptus gomphocephala*), no hollows
 - ⊠ Tuart (*Eucalyptus gomphocephala*), contains hollows
 - Other, no hollows
 - ⊠ Other, contains hollows
- DBH (mm)**
- 500 - 750 mm
 - 750 - 1000 mm
 - 1000 - 1250 mm
 - 1250 - 1500 mm
 - 1500 - 2500 mm

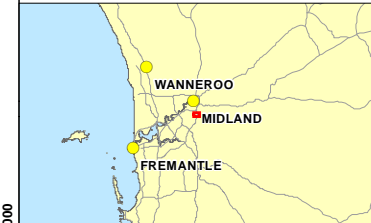
NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
 LOCALITY MAP SOURCED LANDGATE 2008
 AERIAL PHOTOGRAPHY SOURCED LANDGATE 2017
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LOCALITY MAP



PROJECT ID 2385	DATE 24/11/2017
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HORIZONTAL DATUM AND PROJECTION
 GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
EW	AH	AH	0

MRWA
 Roe Hwy and Kalamunda Rd Interchange

Roe Hwy Kalamunda Rd Biological Survey

Figure 16a
 Potential BC Breeding Habitat



Legend

- Site Boundary
- Jarrah (*Eucalyptus marginata*), no hollows
- Jarrah (*Eucalyptus marginata*), contains hollows
- Marri (*Corymbia calophylla*), no hollows
- Marri (*Corymbia calophylla*), contains hollows
- Tuart (*Eucalyptus gomphocephala*), no hollows
- Tuart (*Eucalyptus gomphocephala*), contains hollows
- Other, no hollows
- Other, contains hollows

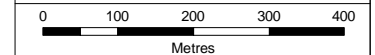
DBH (mm)

- 500 - 750 mm
- 750 - 1000 mm
- 1000 - 1250 mm
- 1250 - 1500 mm
- 1500 - 2500 mm

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

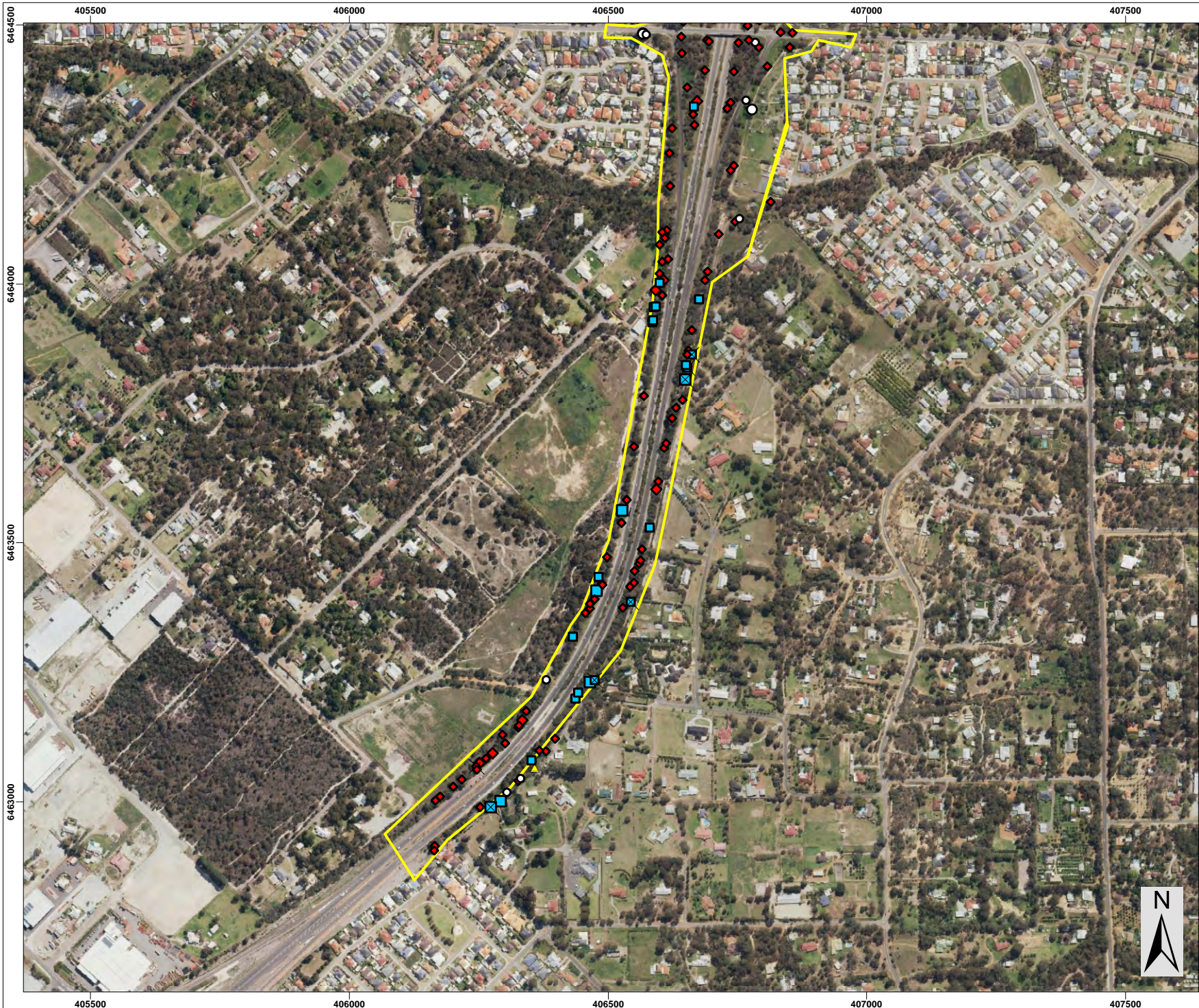


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HORIZONTAL DATUM AND PROJECTION GDA 1994 MGA Zone 50			
CREATED EW	CHECKED AH	APPROVED AH	REVISION 0

MRWA
 Roe Hwy and Kalamunda Rd Interchange

Roe Hwy Kalamunda Rd Biological Survey

Figure 16b
 Potential BC Breeding Habitat



Legend

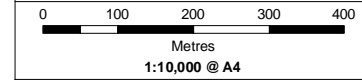
- Site Boundary
- Jarrah (*Eucalyptus marginata*), no hollows
- X
 Jarrah (*Eucalyptus marginata*), contains hollows
- ◆ Marri (*Corymbia calophylla*), no hollows
- ◆ Marri (*Corymbia calophylla*), contains hollows
- ▲ Tuart (*Eucalyptus gomphocephala*), no hollows
- ▲ Tuart (*Eucalyptus gomphocephala*), contains hollows
- Other, no hollows
- Other, contains hollows

DBH (mm)

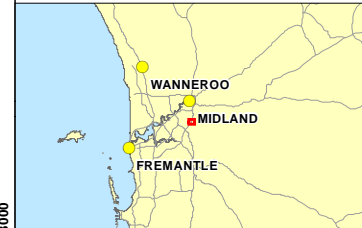
- 500 - 750 mm
- 750 - 1000 mm
- 1000 - 1250 mm
- 1250 - 1500 mm
- 1500 - 2500 mm

NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
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CREATED EW	CHECKED AH	APPROVED AH	REVISION 0

MRWA
Roe Hwy and Kalamunda Rd Interchange
 Roe Hwy Kalamunda Rd Biological Survey
Figure 16c
Potential BC Breeding Habitat

APPENDIX A:

Legislative and Non-Legislative Descriptions

Environment Protection and Biodiversity Conservation Act 1999

The EPBC Act aims to protect matters of national environmental significance (MNES). Under the EPBC Act, the Commonwealth Department of the Environment and Energy (DEE) lists threatened species and communities in categories determined by criteria set out in the EPBC Act.

Projects likely to cause a significant impact on MNES should be referred to the DEE for assessment under the EPBC Act.

Wildlife Conservation Act 1950

The WA DBCA lists flora and fauna under the provisions of the WC Act as protected according to their need for protection.

Flora is given Declared Rare status when populations are geographically restricted or are threatened by local processes. In addition, under the WC Act, by Notice in the WA Government Gazette of 9 October 1987, all native flora (spermatophytes, pteridophytes, bryophytes and thallophytes) is protected throughout the State. Fauna are classified as Schedule 1 to Schedule 4 according to their need for protection.

Biodiversity Conservation Act 2016

The *Biodiversity Conservation Act 2016* replaces the *Wildlife Conservation Act 1950* and the *Sandalwood Act 1929*. The BC Act aims to conserve and protect biodiversity and biodiversity components within the State and to promote ecologically sustainable use of biodiversity components in the State. The Act covers important biodiversity conservation matters not previously recognised in the WC Act, including threatened ecological communities, threatening processes, critical habitats and environmental pests and weeds. The Act also provides incentives for private and community conservation initiatives through new biodiversity conservation agreements and biodiversity conservation covenants. In addition, the Act provides for new public and landholder consultation mechanisms previously absent from the WC Act.

Environmental Protection Act 1986

Declared Rare Flora (DRF) and Threatened Ecological Communities (TECs) are given special consideration in environmental impact assessments and have special status as Environmentally Sensitive Areas (ESAs) under the EP Act and the *Environmental Protection (Clearing of Native Vegetation) Regulations 2004*. Exemptions for a clearing permit do not apply in an ESA. In addition, habitat necessary for the maintenance of indigenous fauna is considered in the clearing principles and assessed during consideration of applications for a clearing permit.

Biosecurity and Agricultural Management Act 2007

Plants may be 'Declared' by the Minister for Agriculture and Food under the BAM Act. The Western Australian Organism List contains information on the area(s) in which a plant is declared and the control and keeping categories to which it has been assigned in Western Australia. A declaration may apply to the whole State, to districts, individual properties or even to single paddocks. If a plant is 'Declared', landholders are obliged to control that plant on their properties (Department of Agriculture and Food Western Australia [DAFWA] 2012).

Weeds of National Significance

The Australian Government along with the State and Territory governments has endorsed 32 WONS. Four major criteria were used in determining WONS:

- The invasiveness of a weed species;
- A weed's impacts;
- The potential for spread of a weed; and
- Socio-economic and environmental values.

Each WONS has a national strategy and a national coordinator, responsible for implementing the strategy. WONS are regarded as the worst weeds in Australia because of their invasiveness, potential for spread, and economic and environmental impacts (Thorp and Lynch 2000).

Department of Biodiversity, Conservation and Attractions Priority Lists

DBCA lists 'Priority' flora and fauna that have not been assigned statutory protection as Declared Rare or 'Scheduled' under the WC Act and are under consideration for declaration as Threatened. Flora and fauna assessed as Priority 1-3 are considered to be in urgent need of further survey. Priority 4 flora requires monitoring every 5 -10 years and Priority 5 flora and fauna is subject to a specific conservation program.

DBCA maintains a list of Priority Ecological Communities (PECs) which identifies plant communities that require further investigation before possible nomination for TEC status. Once listed, a community becomes a PEC and, when endorsed by the WA Minister for Environment, becomes a TEC and protected as an ESA under *Environmental Protection (Clearing of Native Vegetation) Regulations 2004*.

Informal Recognition of Flora and Fauna

Certain populations or communities of flora and/or fauna may be of local significance or interest because of their patterns of distribution and abundance. For example, specific locations of flora and may be locally significant because they are range extensions to the previously known distribution, or are newly discovered taxa (and have the potential to be of more than local significance). In addition, many species are in decline as a result of threatening processes (land clearing, grazing, and changed fire regimes) and relict

populations of such species assume local importance for DBCA. It is not uncommon for DBCA to make comment on these species of interest.

APPENDIX B:

Categories of Declared Rare Flora (WC Act) and Priority Listings (DBCA)

CONSERVATION CODE	DESCRIPTION
X	<p>Presumed Extinct Flora (Declared Rare Flora – Extinct) “Taxa which have been adequately searched for and there is no reasonable doubt that the last individual has died, and have been gazetted as such (Schedule 2 under the <i>Wildlife Conservation Act 1950</i>).”</p>
T	<p>Threatened Flora (Declared Rare Flora – Extant) “Taxa which have been adequately searched for and are deemed to be in the wild either rare, in danger of extinction, or otherwise in need of special protection, and have been gazetted as such (Schedule 1 under the <i>Wildlife Conservation Act 1950</i>).” “Threatened Flora (Schedule 1) are further ranked by the Department according to their level of threat using IUCN Red List criteria: CR: Critically Endangered – considered to be facing an extremely high risk of extinction in the wild; EN: Endangered – considered to be facing a very high risk of extinction in the wild; VU: Vulnerable – considered to be facing a high risk of extinction in the wild.”</p>
P1	<p>Priority One: Poorly-known taxa “Taxa which are known from one or a few collections or sight records (generally less than five), all on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, Shire, Westrail and Main Roads WA road, gravel and soil reserves, and active mineral leases and under threat of habitat destruction or degradation. Taxa may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes.”</p>
P2	<p>Priority Two: Poorly-known taxa “Taxa which are known from one or a few collections or sight records, some of which are on lands not under imminent threat of habitat destruction or degradation, e.g. national parks, conservation parks, nature reserves, State forest, vacant Crown Land, water reserves, etc. Taxa may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes.”</p>
P3	<p>Priority Three: Poorly-known taxa “Taxa which are known from collections or sight records from several localities not under imminent threat, or few but widespread localities with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Taxa may be included if they are comparatively well known from several localities but do not meet adequacy of survey requirements and known threatening processes exist that could affect them.”</p>

CONSERVATION CODE	DESCRIPTION
P4	<p>Priority Four: Rare, Near Threatened and other taxa in need of monitoring</p> <p>a. Rare. "Taxa which 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 taxa are usually represented on conservation lands."</p> <p>b. Near Threatened. "Taxa that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable."</p> <p>c. "Taxa that have been removed from the list of threatened species during the past five years for reasons other than taxonomy."</p>
P5	<p>Priority Five: Conservation Dependent taxa</p> <p>"Taxa that are not threatened but are subject to a specific conservation program, the cessation of which would result in the taxon becoming threatened within five years."</p>

Source: Department of Biodiversity, Conservation and Attractions (2017). Online: https://www.dpaw.wa.gov.au/images/documents/plants-animals/threatened-species/Listings/conservation_code_definitions.pdf

APPENDIX C:

Definition of Threatened and Priority Ecological Communities

Definitions of Threatened Ecological Communities as Endorsed by the Western Australian Minister for the Environment

Presumed Totally Destroyed (PD)

An ecological community will be listed as presumed totally destroyed if there are no recent records of the community being extant and either of the following applies (A or B);

- A) Records within the last 50 years have not been confirmed despite thorough searches or known or likely habitats or
- B) All occurrences recorded within the last 50 years have since been destroyed.

Critically Endangered (CR)

An ecological community will be listed as Critically Endangered when it has been adequately surveyed and is found to be facing an extremely high risk of total destruction in the immediate future. This will be determined on the basis of the best available information, by it meeting any one or more of the following criteria (A, B or C):

- A) The estimated geographic range, and/or total area occupied, and/or number of discrete occurrences since European settlement have been reduced by at least 90% and either or both of the following apply (i or ii)
 - i) geographic range, and/or total area occupied and/or number of discrete occurrences are continuing to decline such that total destruction of the community is imminent (within approximately 5 years)
 - ii) modification throughout its range is continuing such that in the immediate future (within approximately 5 years) the community is unlikely to be capable of being substantially rehabilitated.
- B) Current distribution is limited, and one or more of the following apply (i, ii or iii):
 - i) geographic range and/or number of discrete occurrences, and/or area occupied is highly restricted and the community is currently subject to known threatening processes which are likely to result in total destruction throughout its range in the immediate future (within approximately 5 years)
 - ii) there are very few occurrences, each of which is small and/or isolated and extremely vulnerable to known threatening processes
 - iii) there may be many occurrences but total area is very small and each occurrence is small and/or isolated and extremely vulnerable to known threatening processes
- C) The ecological community exists only as highly modified occurrences which may be capable of being rehabilitated if such work begins in the immediate future (within approximately 5 years)

Endangered (EN)

An ecological community will be listed as Endangered when it has been adequately surveyed and is not Critically Endangered but is facing a very high risk of total destruction in the near future. This will be determined on the basis of the best available information, by it meeting any one or more of the following criteria (A, B or C):

- A) The estimated geographic range, and/or total area occupied, and/or number of discrete occurrences since European settlement have been reduced by at least 70% and either or both of the following apply (i or ii)

- i) geographic range, and/or total area occupied and/or number of discrete occurrences are continuing to decline such that total destruction of the community is likely in the short term (within approximately 10 years)
- ii) modification throughout its range is continuing such that in the short term future (within approximately 10 years) the community is unlikely to be capable of being substantially restored or rehabilitated.
- B) Current distribution is limited, and one or more of the following apply (i, ii or iii):
 - i) geographic range and/or number of discrete occurrences, and/or area occupied is highly restricted and the community is currently subject to known threatening processes which are likely to result in total destruction throughout its range in the short term future (within approximately 10 years)
 - ii) there are very few occurrences, each of which is small and/or isolated and extremely vulnerable to known threatening processes
 - iii) there may be many occurrences but total area is very small and each occurrence is small and/or isolated and extremely vulnerable to known threatening processes
- C) The ecological community exists only as highly modified occurrences which may be capable of being rehabilitated if such work begins in the short term future (within approximately 10 years).

Vulnerable (VU)

An ecological community will be listed as Vulnerable when it has been adequately surveyed and is not Critically Endangered or Endangered but is facing a high risk of total destruction in the medium to long term future. This will be determined on the basis of the best available information, by it meeting any one or more of the following criteria (A, B or C):

- A) The ecological community exists largely as modified occurrences which are likely to be capable of being substantially restored or rehabilitated.
- B) The ecological community can be modified or destroyed and would be vulnerable to threatening processes, is restricted in area and/or range and/or is only found at a few locations.
- C) The ecological community may still be widespread but is believed likely to move into a category of higher threat in the medium to long term future because of existing or impending threatening processes.

Source: Department of Environment and Conservation (2010). Definitions, Categories and Criteria for Threatened and Priority Ecological Communities. Department of Environment and Conservation, Perth, WA. Online: <http://www.dpaw.wa.gov.au/images/documents/plants-animals/threatened-species/tecs/tec-definitions-dec2010.pdf>

Definitions of Priority Ecological Communities as listed DPCA

Possible threatened ecological communities that do not meet survey criteria or that are not adequately defined are added to the Priority Ecological Community Lists under Priorities 1, 2 and 3. These three categories are ranked in order of priority for survey and/or definition of the community, and evaluation of conservation status, so that consideration can be given to their declaration as threatened ecological communities. 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 with apparently few, small occurrences, all or most not actively managed for conservation (e.g. within agricultural or pastoral lands, urban areas, active mineral leases) and for which current threats exist. 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 small occurrences, all or most of which are actively managed for conservation (e.g. within national parks, conservation parks, nature reserves, State forest, unallocated Crown land, water reserves, etc.) and not under imminent threat 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 within significant remaining areas of habitat in which other occurrences may occur, much of it not under imminent threat, or;
- (iii) Communities made up of large, and/or widespread occurrences, that may or 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, and inappropriate fire regimes.

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.

- (a) 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.
- (b) 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 Vulnerable.
- (c) 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.

Source: Department of Environment and Conservation (2010). Definitions, Categories and Criteria for Threatened and Priority Ecological Communities. Department of Environment and Conservation, Perth, WA. Online: <http://www.dpaw.wa.gov.au/images/documents/plants-animals/threatened-species/tecs/tec-definitions-dec2010.pdf>

APPENDIX D:

Vegetation Condition Scale

VEGETATION CONDITION	SOUTH WEST AND INTERZONE BOTANICAL PROVINCES
Pristine	Pristine or nearly so, no obvious signs of disturbance caused by human activities since European settlement
Excellent	Vegetation structure intact, disturbance affecting individual species and weeds are non-aggressive species. Damage to trees caused by fire, the presence of non-aggressive weeds and occasional vehicle tracks.
Very Good	Vegetation structure altered; obvious signs of disturbance. 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 disturbances. Retains basic vegetation structure or ability to regenerate it. Disturbance to vegetation structure caused by very frequent fires, the presences of very aggressive weeds, 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. Disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds at high density, 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 areas are often described as 'parkland cleared' with the flora comprising weed or crop species with isolated native trees and shrubs.

Source: Technical Guidance – Flora and Vegetation Surveys for Environmental Impact Assessment; Vegetation Condition Scale adapted from Keighery 1994.

APPENDIX E:

Declared Plant Categories

Standard Meanings of Declared Plant Categories

Under the Biosecurity and Agriculture Management Act 2007 (the BAM Act), all declared pests are placed in one of three categories, namely C1 (exclusion), C2 (eradication) or C3 (management).

C1 category (Exclusion) - Pests will be assigned to this category if they are not established in WA and control measures are to be taken, including border checks, in order to prevent them entering and establishing in the State.

C2 category (Eradication) – Pests will be assigned to this category if they are present in WA in low enough numbers or in sufficiently limited areas that their eradication is still a possibility.

C3 category (Management) – Pests will be assigned to this category if they are established in WA but it is feasible, or desirable, to manage them in order to limit their damage. Control measures can prevent a C3 pest from increasing in population size or density or moving from an area in which it is established into an area which currently is free of that pest.

Source: Department of Agriculture and Food, WA. Online:
<http://www.biosecurity.wa.gov.au/western-australian-organism-list-waol>

APPENDIX F:

Desktop Search Results and Omissions

FID_	Popld	Nameid	Taxon	ConsStatus	WARank	PopNumbe	SubPopCoc	Gda94Lat	Gda94Long	PopStatus	Location	District	Vesting	Purpose1	Purpose2	CountDate	Method	MatureCou	JuvenileCo	SeedlingCo	LiveTotal	PlantTypeC	AreaOccup	inFlower	Population
	98406	3219	Acacia anomala	T	VU	6	A	-31.9824	116.0371		PP Lot 503	PERTH HILL PRI				1/09/1991 0:00	ESTMT	0			100			N	
	98407	3219	Acacia anomala	T	VU	6	B	-31.9825	116.0371		Ozone Terr	PERTH HILL LGA		VER		27/08/1987 0:00		0			0			Y	
	98408	3219	Acacia anomala	T	VU	6	C	-31.9824	116.0371	T	PP Lot 503	PERTH HILL PRI				11/10/1986 0:00	ACT_IND	0			3			N	
	108062	3219	Acacia anomala	T	VU	6	D	-31.9823	116.0373		Private Pro	PERTH HILL PRI				27/08/2013 0:00	ACT_IND	0			5	PLANTS	10	Y	HEALTHY
	98410	3219	Acacia anomala	T	VU	7	A	-31.9815	116.0416		Un-named	PERTH HILL CC		CFF		27/08/2013 0:00	ACT_IND	3	0	0	0	0 PLANTS		Y	HEALTHY
	98411	3219	Acacia anomala	T	VU	7	B	-31.9818	116.0415		Un-named	PERTH HILL CC		CFF		27/08/2013 0:00	ACT_IND	4	0	0	0	0 PLANTS		Y	HEALTHY
	98412	3219	Acacia anomala	T	VU	7	C	-31.9823	116.0378		Un-named	PERTH HILL CC		CFF		27/08/2013 0:00	ACT_IND	42	1	0	0	0 PLANTS	350	Y	HEALTHY
	98420	3219	Acacia anomala	T	VU	9	A	-31.9821	116.0376		Private Pro	PERTH HILL PRI				14/09/1985 0:00	ESTMT	0			0			N	
	98421	3219	Acacia anomala	T	VU	9	B	-31.9822	116.0375		Ozone Terr	PERTH HILL LGA		VER		27/08/2013 0:00	ACT_IND	0			44	PLANTS	80	Y	HEALTHY
	98422	3219	Acacia anomala	T	VU	9	C	-31.9816	116.0373		Private Pro	PERTH HILL PRI				28/08/2000 0:00	ACT_IND	8			8			Y	HEALTHY
	98423	3219	Acacia anomala	T	VU	9	D	-31.9849	116.037		Lot 30 Ozor	PERTH HILL PRI				29/08/2000 0:00	ACT_IND	18			18			Y	
	98432	3220	Acacia aphylla	T	VU	17	A	-31.9257	116.0467	P	Shire Road	PERTH HILL LGA		VER		11/11/2013 0:00		4			0			N	POOR
	98433	3220	Acacia aphylla	T	VU	17	B	-31.927	116.0471	P	Shire Road	PERTH HILL LGA		VER		11/11/2013 0:00	ACT_IND	9			0			N	MODERATE
	89604	11229	Acacia drummondii subsp. affinis		3	15		-31.9275	116.0467		175m S of I	PERTH HILL MRD				26/06/2006 0:00	ESTMT	0			50			N	
	88922	6946	Anthocercis gracilis	T	VU	7		-31.9285	116.0612		Lower Hele	PERTH HILL SPC				2/10/1995 0:00	ESTMT	200			200			N	
	89376	7849	Asteridea gracilis		3	7		-31.9602	116.0598		Helena Vall	PERTH HILL UNKNOWN				26/09/1977 0:00		0			0			N	
	93363	16618	Boronia humifusa		1	12		-31.9668	116.0429		Parkland Rr	PERTH HILL LGA		PAR		20/08/2002 0:00	ACT_IND	440			0			Y	HEALTHY
	86235	3178	Byblis gigantea		3	4		-31.9753	115.9722		Perth Airpc	SWAN COA COM		AIR		11/12/2001 0:00		0			0			N	
	102254	13999	Conospermum undulatum	T	VU	1	A	-31.9459	116.0297		Maida Vale	PERTH HILL LGA		REC		2/12/2005 0:00	ESTMT	1592			1592			Y	
	102255	13999	Conospermum undulatum	T	VU	1	B	-31.9502	116.0334		Lot 9 Goosr	PERTH HILL PRI				3/10/2002 0:00		0			362			Y	
	102256	13999	Conospermum undulatum	T	VU	1	C	-31.9501	116.0326		Lot 8 Goosr	PERTH HILL PRI				23/09/1998 0:00	ACT_IND	508			508			Y	
	102257	13999	Conospermum undulatum	T	VU	1	D	-31.9476	116.0327		Watsonia R	PERTH HILL LGA		VER		3/10/2002 0:00	ACT_IND	11			11			Y	
	102258	13999	Conospermum undulatum	T	VU	1	E	-31.9479	116.0218		Reserve No	PERTH HILL WAT		OTH		3/10/2002 0:00	ESTMT	57			57			Y	
	102259	13999	Conospermum undulatum	T	VU	1	F	-31.9495	116.0321		Private Pro	PERTH HILL PRI				24/08/2005 0:00	ACT_IND	33			33			Y	
	102260	13999	Conospermum undulatum	T	VU	1	G	-31.9472	116.0317		Private Pro	PERTH HILL PRI				12/11/2006 0:00		0			0			N	
	102261	13999	Conospermum undulatum	T	VU	1	H	-31.9467	116.0318		Private Pro	PERTH HILL PRI				3/10/2002 0:00	ESTMT	80			80			N	
	102262	13999	Conospermum undulatum	T	VU	1	I	-31.9464	116.0325		Crown Resr	PERTH HILL LGA		CFF		22/02/2011 0:00	ACT_IND	131			131			N	
	102263	13999	Conospermum undulatum	T	VU	1	J	-31.9493	116.0311		Private Pro	PERTH HILL PRI				24/12/1998 0:00		0			0			N	
	91545	13999	Conospermum undulatum	T	VU	2		-31.9322	116.0156		Crown Resr	SWAN COA CC		CFF		28/11/2006 0:00	ACT_IND	139			139			Y	
	91552	13999	Conospermum undulatum	T	VU	3		-31.9432	115.9959	X	Fleming Re	SWAN COA LGA		REC		6/03/2000 0:00	ACT_IND	0			0			N	
	102341	13999	Conospermum undulatum	T	VU	4	A	-31.9593	116.0068		Private Pro	SWAN COA PRI				6/12/2005 0:00		62			62			Y	
	102342	13999	Conospermum undulatum	T	VU	4	B	-31.9598	116.006		Private Pro	SWAN COA PRI				25/07/2008 0:00	ACT_IND	89			89			Y	
	102343	13999	Conospermum undulatum	T	VU	4	C	-31.9607	116.0034	X	Private Pro	SWAN COA PRI				18/08/1997 0:00		0			0			N	
	102344	13999	Conospermum undulatum	T	VU	4	D	-31.9604	116.0049		Private Pro	SWAN COA PRI				25/07/2008 0:00	ACT_IND	41			41			Y	
	102345	13999	Conospermum undulatum	T	VU	4	E	-31.9625	116.0042	X	Private Pro	SWAN COA PRI				12/11/2006 0:00		0			0			N	
	102346	13999	Conospermum undulatum	T	VU	4	F	-31.9625	116.0033	X	Smokebusf	SWAN COA LGA		VER		15/11/2006 0:00		0			0			N	
	102347	13999	Conospermum undulatum	T	VU	4	G	-31.968	116.0038		Roe Hwy, E	SWAN COA MRD		VER		25/07/2008 0:00	ACT_IND	16			16			Y	
	102348	13999	Conospermum undulatum	T	VU	4	H	-31.9632	116.0023		Lot 497 Sul	SWAN COA SPC				13/12/2006 0:00	ACT_IND	76			76			Y	
	102349	13999	Conospermum undulatum	T	VU	4	I	-31.9641	116.0043		Private Pro	SWAN COA PRI				21/08/1997 0:00		0			0			Y	
	102350	13999	Conospermum undulatum	T	VU	4	J	-31.9641	116.0043		Private Pro	SWAN COA PRI				21/08/1997 0:00		0			0			Y	
	102351	13999	Conospermum undulatum	T	VU	4	K	-31.9653	116.006		Private Pro	SWAN COA PRI				21/08/1997 0:00		0			0			Y	
	102352	13999	Conospermum undulatum	T	VU	4	L	-31.9576	116.0037		Private Pro	SWAN COA PRI				15/11/2006 0:00	ACT_IND	20			20			Y	
	102353	13999	Conospermum undulatum	T	VU	4	M	-31.9555	116.0085		Brae Road,	SWAN COA LGA		VER		15/11/2006 0:00	ACT_IND	7			7			Y	
	102354	13999	Conospermum undulatum	T	VU	4	N	-31.9558	116.0087		Private Pro	SWAN COA PRI				6/12/2005 0:00	ACT_IND	103			103			Y	
	102355	13999	Conospermum undulatum	T	VU	4	O	-31.961	116.004		Private Pro	SWAN COA PRI				2/12/2005 0:00	ACT_IND	161			161			Y	
	102356	13999	Conospermum undulatum	T	VU	4	P	-31.9562	116.0078		Conservatio	SWAN COA LGA		CRM		20/10/2005 0:00	ACT_IND	142		10	152			Y	
	102357	13999	Conospermum undulatum	T	VU	4	Q	-31.957	116.0083		Bridle path	SWAN COA LGA		PAR		6/12/2005 0:00	ESTMT	120			120			Y	
	102358	13999	Conospermum undulatum	T	VU	4	R	-31.9496	115.9939		Poison Gull	SWAN COA LGA		PAR		30/07/2008 0:00	ACT_IND	14			14			Y	
	102359	13999	Conospermum undulatum	T	VU	4	S	-31.9571	116.0091		Private Pro	SWAN COA PRI				25/07/2008 0:00	ACT_IND	72			72			Y	
	102360	13999	Conospermum undulatum	T	VU	4	T	-31.9589	116.0075		Private Pro	SWAN COA PRI				6/12/2005 0:00		0			0			N	
	102361	13999	Conospermum undulatum	T	VU	4	U	-31.9682	116.0036		Lot 9005 (2	SWAN COA SPC				25/07/2008 0:00	ACT_IND	4			4			Y	
	102362	13999	Conospermum undulatum	T	VU	4	V	-31.964	115.9995		PP, Lot 19	(SWAN COA PRI				1/10/2008 0:00	ACT_IND	7			7			Y	
	91555	13999	Conospermum undulatum	T	VU	5		-31.9475	116.0076		Edney Prim	SWAN COA MED		SCH		25/07/2008 0:00	ACT_IND	2			2			Y	
	91556	13999	Conospermum undulatum	T	VU	6		-31.9518	115.9976		Private Pro	SWAN COA PRI				18/08/1997 0:00	ACT_IND	11			11			Y	
	91557	13999	Conospermum undulatum	T	VU	7		-31.9599	115.9943	X	Private Pro	SWAN COA PRI				12/08/1997 0:00		0			0			N	
	102364	13999	Conospermum undulatum	T	VU	8	A	-31.9652	116.0168		Private Pro	PERTH HILL PRI				5/11/2001 0:00	ACT_IND	4			4			Y	
	102365	13999	Conospermum undulatum	T	VU	8	B	-31.9675	116.0138		Private Pro	PERTH HILL PRI				24/08/2005 0:00	ACT_IND	4			4			Y	
	91558	13999	Conospermum undulatum	T	VU	9		-31.9821	116.014	X	**Populati	PERTH HILL LGA				24/10/2006 0:00	ACT_IND	0		0	0			N	
	102266	13999	Conospermum undulatum	T	VU	10	B	-31.991	115.9995		Hartfield P;	PERTH HILL LGA		REC		10/03/2000 0:00	ACT_IND	0			0			N	
	102270	13999	Conospermum undulatum	T	VU	10	F	-31.991	115.9995		Hartfield P;	PERTH HILL LGA		REC		13/12/2006 0:00	ACT_IND	0		0	0			N	
	91544	13999	Conospermum undulatum	T	VU	17		-31.9619	116.0092		Roe Hwy, V	SWAN COA MRD		VER		15/11/2006 0:00	ACT_IND	94			94			Y	
	102304	13999	Conospermum undulatum	T	VU	18	A	-31.9793	115.989		Crown Resr	SWAN COA CC		CFF		15/12/2006 0:00	ACT_IND	1159			1159			Y	
	102305	13999	Conospermum undulatum	T	VU	18	B	-31.9807	115.9873	X	Private Pro	SWAN COA PRI				17/08/1997 0:00		0			0			N	
	102306	13999	Conospermum undulatum	T	VU	18	C	-31.9805	115.986		Private Pro	SWAN COA PRI				21/12/2006 0:00	ACT_IND	97			97			Y	
	102307																								

102311	13999	Conospermum undulatum	T	VU	18 H	-31.9785	116.0023	Agricultura PERTH HILL AGR	OTH		19/08/1997 0:00	ESTMT	200			200				N
102312	13999	Conospermum undulatum	T	VU	18 I	-31.9763	115.9954	Pioneer Pa PERTH HILL LGA	RUB	REC	18/08/1997 0:00	ESTMT	65			65				N
102313	13999	Conospermum undulatum	T	VU	18 J	-31.9746	115.9962	Roe Hwy, F PERTH HILL MRD	VER		10/10/2002 0:00	ACT_IND	61			61				Y
102314	13999	Conospermum undulatum	T	VU	18 K	-31.9791	115.9968	Pioneer Pa PERTH HILL LGA	RUB	REC	19/08/1997 0:00	ESTMT	90			90				Y
102316	13999	Conospermum undulatum	T	VU	18 N	-31.983	115.9888	Roe Hwy, N SWAN COA MRD	VER		22/12/2006 0:00	ACT_IND	232			232				Y
102317	13999	Conospermum undulatum	T	VU	18 O	-31.9773	115.9891	Unnamed I SWAN COA CC	CFF	NRE	24/10/2006 0:00	ACT_IND	416			416				Y
102318	13999	Conospermum undulatum	T	VU	18 P	-31.9831	115.9869	Road reser SWAN COA MRD	OTH		21/12/2006 0:00	ACT_IND	151			151				Y
102319	13999	Conospermum undulatum	T	VU	18 Q	-31.9834	115.987	Lot 30 Bedf PERTH HILL MRD	UNKNOWN		21/12/2006 0:00		0			0				Y
102320	13999	Conospermum undulatum	T	VU	18 R	-31.9833	115.9869	WAPC Free SWAN COA PRI			21/12/2006 0:00		0			0				Y
102328	13999	Conospermum undulatum	T	VU	20 A	-31.9591	116.0218	Private Pro PERTH HILL PRI			30/08/2000 0:00	ESTMT	25	3		28				Y
102329	13999	Conospermum undulatum	T	VU	20 B	-31.9599	116.0231	Shire Reser PERTH HILL LGA	MUN		7/11/2005 0:00		5			5				N
91546	13999	Conospermum undulatum	T	VU	21	-31.9327	116.0184	Roe Highw: PERTH HILL MRD	VER		9/04/2001 0:00	ACT_IND	1			1				N
102334	13999	Conospermum undulatum	T	VU	23 A	-31.9323	116.0199	Private Pro SWAN COA PRI			8/09/2009 0:00		25			25				N
102335	13999	Conospermum undulatum	T	VU	23 B	-31.9316	116.0186	Roe Highw: SWAN COA MRD	VER		4/06/2009 0:00		3			3				N
102336	13999	Conospermum undulatum	T	VU	23 C	-31.931	116.0184	Roe Highw: SWAN COA MRD	VER		4/06/2009 0:00		2			2				N
102338	13999	Conospermum undulatum	T	VU	24 A	-31.9754	115.9801	Perth Inter SWAN COA COM	AIR		1/12/2004 0:00		0			0				N
102339	13999	Conospermum undulatum	T	VU	24 B	-31.9623	115.9812	Perth Inter SWAN COA COM	AIR		25/02/2005 0:00	ESTMT	200			200				N
91548	13999	Conospermum undulatum	T	VU	26	-31.9544	116.0297	Shire Reser PERTH HILL LGA	REC		28/08/2006 0:00	ACT_IND	1			1				N
91549	13999	Conospermum undulatum	T	VU	27	-31.9456	116.0009	Shire Reser SWAN COA LGA	REC		10/08/2006 0:00		12			12				N
91550	13999	Conospermum undulatum	T	VU	28	-31.9932	116.0108	Shire Reser PERTH HILL LGA	REC		10/08/2006 0:00	ACT_IND	4			4				N
91551	13999	Conospermum undulatum	T	VU	29	-31.9807	115.9793	Abernethy SWAN COA MRD	VER		1/09/2010 0:00	ACT_IND	1			1				Y
111229	13999	Conospermum undulatum	T	VU	32 A	-31.9352	116.0133	8 Hybanth SWAN COA PRI			7/12/2016 0:00	ACT_IND	2			0	PLANTS	2		MODERATE
111231	13999	Conospermum undulatum	T	VU	32 B	-31.9352	116.0132	Hybanthus SWAN COA LGA	VER		7/12/2016 0:00	ACT_IND	1			0	PLANTS	1		MODERATE
99449	5505	Darwinia apiculata	T	EN	1 A	-31.9789	116.04	Reserve 23 PERTH HILL WAT	WAT		12/06/2009 0:00	ACT_IND	1122	4	15	0	PLANTS		N	MODERATE
99450	5505	Darwinia apiculata	T	EN	1 B	-31.9814	116.0447	Conservatio PERTH HILL CC	CON		25/05/2009 0:00	ACT_IND	2363	5	15	0	PLANTS		N	MODERATE
99451	5505	Darwinia apiculata	T	EN	1 C	-31.9788	116.0462	Reserve 34 PERTH HILL WAT	WAT		10/11/2011 0:00	ACT_IND	3			0	PLANTS	100	N	MODERATE
99452	5505	Darwinia apiculata	T	EN	1 D	-31.9833	116.0333	Private pro PERTH HILL PRI			10/11/2011 0:00		0			0				N
101700	13451	Grevillea manglesii subsp. dissectifolia		3	2 A	-31.9293	116.0534	Helena Vall PERTH HILL UNKNOWN			18/10/1998 0:00	ACT_IND	3			3				Y
101701	13451	Grevillea manglesii subsp. dissectifolia		3	2 B	-31.9296	116.0537	Mundaring PERTH HILL CC	NPK	VER	18/10/1998 0:00	ACT_IND	3		17	3				Y
84892	1469	Haemodorum loratum		3	11	-31.9652	116.0059	W side of R SWAN COA PRI			1/11/1995 0:00		0			0				N
103573	17106	Macarthuria keigheryi	T	EN	3 A	-31.9765	115.9884	Reserve 37 SWAN COA CC	CFF		20/09/2006 0:00	ACT_IND	1			1				Y
103574	17106	Macarthuria keigheryi	T	EN	3 B	-31.9764	115.9879	Dundas Ro: SWAN COA LGA	VER		20/09/2006 0:00		0		0	0				N
103576	17106	Macarthuria keigheryi	T	EN	5 A	-31.9784	115.9784	From sout SWAN COA COM	AIR		1/12/2004 0:00		0			0				Y
103578	17106	Macarthuria keigheryi	T	EN	5 C	-31.9688	115.9748	Perth Airpc SWAN COA COM	AIR		25/02/2005 0:00	ESTMT	45			45				N
89460	8163	Pithocarpa corymbulosa		3	2	-31.9257	116.0648	Reserve 81 SWAN COA LGA	REC		28/01/1986 0:00		0			0				N
89592	11132	Platysace ramosissima		3	4	-31.9735	115.9918	Ca 0.3 km I SWAN COA UNKNOWN			4/11/1994 0:00		0			0				N
94013	17606	Schoenus griffinianus		4	5	-31.9191	116.013	Roe Highw: SWAN COA MRD	VER		8/07/2006 0:00		0			0				N
84536	1008	Schoenus pennisetis		3	7	-31.9769	115.9888	System 6 A SWAN COA CC	NRE		4/11/1995 0:00		0			0				N
100541	7756	Stylidium longitubum		4	8 A	-31.9641	115.9656	Southern a SWAN COA COM	AIR		31/10/2001 0:00	UNKNOWN	100			100				Y
92162	14333	Tetradthea sp. Granite (S. Patrick SP12)		3	3	-31.9821	116.0348	On the ver PERTH HILL LGA	VER		1/01/1990 0:00	ESTMT	0			300				Y
92163	14333	Tetradthea sp. Granite (S. Patrick SP12)		3	4	-31.9363	116.0473	On the norl PERTH HILL CC	NPK		1/01/1990 0:00	ESTMT	0			400				N
92159	14333	Tetradthea sp. Granite (S. Patrick SP12)		3	12	-31.9289	116.0703	PRI Lot.5, L PERTH HILL PRI			26/10/2004 0:00		0			0				N
95298	20729	Thelymitra magnifica		1	2	-31.9472	116.0283	Cnr of Wat: PERTH HILL SPC	REC		20/10/1997 0:00	ACT_IND	9		36	9				Y
95299	20729	Thelymitra magnifica		1	3	-31.9922	116.0283	Hill crests & PERTH HILL SPC	REC		2/11/1999 0:00	ACT_IND	4			4				Y
104444	20729	Thelymitra magnifica		1	5 A	-31.9925	116.03	PRI Lot.126 PERTH HILL PRI			22/10/2003 0:00	ACT_IND	21			21				Y
104445	20729	Thelymitra magnifica		1	5 B	-31.9886	116.0286	PRI Lot.4. P PERTH HILL PRI			22/10/2003 0:00	ACT_IND	1			1				Y
95300	20729	Thelymitra magnifica		1	6	-31.9498	116.0344	Dept. of En PERTH HILL PRI			28/10/2003 0:00	ACT_IND	13		18	13				Y
95302	20729	Thelymitra magnifica		1	9	-31.9603	116.0227	Norwood R PERTH HILL LGA			20/10/2004 0:00	ESTMT	6			6				Y
89536	10862	Thelymitra stellata	T	EN	22	-31.986	116.0334	ca 250 yarc PERTH HILL NON			15/10/1993 0:00	ESTMT	0		0	0				N
84742	1317	Thysanotus anceps		3	6	-31.9654	116.0612	Shire of Kal PERTH HILL LGA	REC		23/12/1992 0:00		0			3				N
84743	1317	Thysanotus anceps		3	7	-31.9596	116.064	Shire of Kal PERTH HILL LGA	REC	WAT	14/12/1993 0:00		0			3				N
102995	14714	Verticordia lindleyi subsp. lindleyi		4	11 E	-31.9849	115.9848	North of Rc SWAN COA SPC			4/04/1990 0:00	ESTMT	100			100				N
102997	14714	Verticordia lindleyi subsp. lindleyi		4	11 G	-31.9668	115.9848	SW corner SWAN COA PRI			4/04/1990 0:00	ESTMT	100			100				N
92667	14714	Verticordia lindleyi subsp. lindleyi		4	26	-31.9371	115.9815	Perth Airpc SWAN COA COM	AIR		7/12/1994 0:00		0			0				Y

Taxon	Status	Rank	IUCN Criteria	EPBC	DPaW Region	DPaW District	Distribution	Flowering	Recovery Plan
Acacia anomala	T	VU	C2a	VU	SWAN	PERTH HILLS, SWAN COASTAL	Darling Scarp, Bullsbrook, Muchea, Pickering Brook, Kalamunda, Bickley, Chittering	Aug, Sep	
Acacia horridula		3			SWAN	PERTH HILLS	Helena Valley - Serpentine	May-Aug	
Amanita kalamundae		3			SWAN, WARR, WHTB	DONNELLY, PERTH HILLS, CENTRAL WHEATBELT	Kalamunda, Perup, Dwellingup, Jarrahdale, Kellerberrin		
Asteridea gracilis		3			SCST, SWAN	ALBANY, PERTH HILLS	Gosnells, Mt Saddleback, South Stirling, Gordon Inlet, Bindoon, Helena Valley	Sep-Oct	
Banksia mimica	T	VU	D1	EN	MWST, SWAN, SWST, WHT	BLACKWOOD, MOORA, PERTH HILLS, SWAN COASTAL	Whicher Range, Kalamunda, Mogumber, Gingin	Dec-Jan	
Banksia pteridifolia subsp. vernalis		3			MWST, SWAN	MOORA, SWAN COASTAL	Dandaragan, Alexander Morrison N.P., Three Springs, Forrestfield, Gillingarra, Boonanarring NR, Maida Vale, Gooseberry Hill	Sep	
Beaufortia purpurea		3			SWAN	PERTH HILLS	Morangup N.P., Walyunga N.P., John Forrest N.P., Greenmount N.P., Gooseberry Hill		
Boronia humifusa		1			SWAN, SWST	BLACKWOOD, PERTH HILLS	N.P., Martin	Sep	
Boronia tenuis		4			SWAN, SWST	BLACKWOOD, PERTH HILLS	Capel, Tutunup, Kalamunda		
Carex tereticaulis		3			SWAN, SWST, WARR	BLACKWOOD, DONNELLY, SWAN COASTAL, WEL	Kalamunda, Lesmurdie Falls, Oakley Dam, North Dandalup, Dunsborough		
Conospermum undulatum	T	VU	B1+2c	VU	SWAN	PERTH HILLS, SWAN COASTAL	Dardanup, Bridgetown, Blackwood River, Guildford, (Harvey), Mungalip	Nov, Feb	
Darwinia apiculata	T	EN	B1+2c	EN	SWAN	PERTH HILLS	Forrestfield, Orange Grove, Newburn, Lesmurdie, Maida Vale, Hazelmere	Aug-Nov	IRP
Grevillea manglesii subsp. dissectifolia		3			SWAN	PERTH HILLS	Kalamunda	Oct-Nov	IRP
Grevillea pimeleoides		4			SWAN	PERTH HILLS	North Bannister, Gleneagle, Helena Valley, Dwellingup, Wandering	Nov	
Hydrocotyle striata		1			SWAN	PERTH HILLS	Helena Valley, Glen Forrest, Mundaring, Mundaring Weir	Jun-Nov	
Isopogon drummondii		3			MWST, SWAN	MOORA, PERTH HILLS, SWAN COASTAL	Gooseberry Hill, Guildford	Oct	
Jacksonia gracillima		3			SWAN, SWST	BLACKWOOD, SWAN COASTAL	Cockleshell Gully, Mt Lesueur, Mogumber, Orange Grove, Forrestfield, Moora, Midland	Jun	
Lasiopetalum bracteatum		4			SWAN	PERTH HILLS	Mundijong, Forrestdale, Capel, Elgin, Modong N.R., Forrestfield, Ambergate	Oct-Nov	
Lasiopetalum glutinosum subsp. glutinosum		3			SWAN	PERTH HILLS, SWAN COASTAL	Helena Valley, Glen Forrest, Darlington, Dwellingup	Oct-Nov	
Macarthuria keigheryi	T	EN	B2ab(iii)	EN	MWST, SWAN	MOORA, SWAN COASTAL	Guildford, Forrestfield, Helena Valley, Kelmscott, Serpentine	Sep-Dec	
Pimelea rara		4			SWAN	PERTH HILLS	Mullering Brook, Cooljarloo, Kewdale, Forrestfield	Se-De, Fe-M	IRP
Pithocarpa corymbulosa		3			SWAN, SWST	BLACKWOOD, PERTH HILLS	Kalamunda, Waroona, Murray, North Dandalup	Jan	
Senecio gilbertii		1			SWAN, SWST, WARR, WHTI	BLACKWOOD, DONNELLY, PERTH HILLS, CENTRAL WHEATBELT	John Forrest NP, Lesmurdie NP, Helena Valley, Dardanup, Busselton	Apr	
Stylidium striatum		4			SWAN, SWST	BLACKWOOD, PERTH HILLS, WELLINGTON	Bindoon, York, Wooroloo, Wilga, Gooseberry Hill, Bokarup	Sep-Nov	
Tetratheca sp. Granite (S. Patrick SP1224)		3			SWAN	PERTH HILLS	Gooseberry Hill, Pickering Brook, Armadale, Flynn Block, Beverley, Capel, Boyanup	Oct-Nov	
Thelymitra magnifica		1			SWAN	PERTH HILLS	Gosnells, Gooseberry Hill, Bickley Brook, Kalamunda, Lesmurdie, Helena Valley	May-Nov	
Verticordia lindleyi subsp. lindleyi		4			MWST, SWAN	MOORA, PERTH HILLS, SWAN COASTAL	Red Hill, Darling Range, Forrestfield	Sep-Oct	
							Gillingarra-Forrestdale, Cannington, Guildford, Muchea, Gingin, Murray River, Moore River, Serpentine	Nov-Jan	

NameID	Taxon	Cons_code	Plant_Desc	Site	Vegetation	Notes	Locality	Latitude	Longitude	Geocode_Precision	Date	
3219	Acacia anomala	T	Rhizomatous shrub to 0.5 m.	Gravelly loam, steep slope.	Eucalyptus marginata - E. calophylla woodland.		Recreation Reserve off Ozone Terrace, Kalamunda	-31.9833	116.0375	MAN	4	11/09/1991
3219	Acacia anomala	T	Slender form full flower and a grasslike shrub to 40 cms.	Steep slope SSE aspect near crest. Loam over gravel.	In Eucalyptus marginata 10 m, Euc. calophylla -12 m woodland with scattered Casuarina fraserana to 50 m, Xanthorrhoea preissii -3 m, over Low Scrub of Hakea undulata, Hakes amplexicaulis and Dense Low Heath.		Kalamunda Shire, residence of John Marshall, Ozone Tce, Kalamunda (Lot 503), N side of Whistlepipe Gully	-31.9667	116.0333	MAN	4	2/09/1982
3219	Acacia anomala	T	Slender form, full flower, grasslike shrub to 40 cm.	Steep slope, SSE aspect, crest of N side of gully. Brown sandy loam.	Growing in E. marginata, E. calophylla, Casuarina fraserana over low shrub over dense low heath.		Whistlepipe Gully, 2.5 km WSW of Kalamunda shire offices	-31.9667	116.0333	MAN	3	2/09/1982
3220	Acacia aphylla	T					Helena River Valley	-31.9167	116.0333	MAN	4	/06/1974
3220	Acacia aphylla	T		Slope. Moist - dry, brown clay loam. Granite - boulder.	Muir's: scattered marri on road verge. Hakea incrassata, H. erinacea, H. petiolaris, Dryandra armata, D. lindleyana, Nemcia sp., Xanthorrhoea preissii.		Helena Valley 1A at the junction of Ridge Hill Road and Bulkirra Pl - on the NW verge of the junction. 1B: Ridge Hill Road, 136 m S of the junction with Bulkirra Pl on the eastern verge,	-31.9257	116.0465	GPS	1	11/07/2001
11229	Acacia drummondii subsp. affinis	3	Erect, perennial shrub up to 1 m high. Flowers yellow.	Hillside. Clay, rocky. In disturbed soil on road verge.	Medium trees, Marri.	Adult populatic	Valley	-31.9275	116.0467	GPS	1	25/06/2006
14129	Acacia oncinophylla subsp. oncinophylla	3	Flowers yellow.				Greenmount	-31.9	116.05	MAN	3	/09/1919
6946	Anthocercis gracilis	T	Slender, inconspicuous, intricately branched shrub. Fairly short-lived, growing and flourishing after fire. Flowers delicate hanging yellow bells.	Granitic loam, among granite boulders.	Under Rock Sheoak, with Balga, Warrine, Zamia and Forest Rice-grass.	Flowers in sprir	Sheoak thicket above Helena Valley Road, Gooseberry Hill	-31.9275	116.0581	TOPO	2	23/09/1995
7849	Asteridea gracilis	3		Rocky.			Helena Valley, Gooseberry Hill	-31.9614	116.0583	AUTO	2	26/09/1977
32138	Banksia pteridifolia subsp. vernalis	3	Prostrate shrub to 0.4 m tall by 0.8 m wide. Stems underground, resprouting after fire; leaves somewhat glaucous	Flat, grey sand.	Jarrah/Banksia over mixed heath natives.		Reserve 5.17 SOK, located in reserve between Lot 77 (Brae Road) and Lot 27 (Brand Road), Maida Vale	-31.9497	116.0164	AUTO	3	14/01/1993
32138	Banksia pteridifolia subsp. vernalis	3	when young; perianth and style pale gold.	On sandy flat.	With low shrubs and occasional Casuarina fraseriana and Eucalyptus marginata.		Near corner of Brae Road and Stewart Road, High Wycombe,	-31.9667	116.0167	MAN	3	18/08/1998
32138	Banksia pteridifolia subsp. vernalis	3	Stems underground, resprouting after fire; leaves somewhat glaucous	On sandy flat.	With low shrubs and occasional Casuarina fraseriana and Eucalyptus marginata.		Near corner of Brae Road and Stewart Road, High Wycombe,	-31.9667	116.0167	MAN	3	18/08/1998
32138	Banksia pteridifolia subsp. vernalis	3	when young; perianth and style pale gold.	Flat. Dry grey sand. Previously a bridle trail.	Banksia attenuata - Eucalyptus marginata woodland. Lambertia multiflora subsp. darlingensis, Isopogon drummondii, Conospermum undulatum, Hakea ruscifolia, Hypolaena exsulca.		Brae Road Reserve Maida Vale, along track opposite Stewart Road	-31.95	116.0167	MAN	3	8/08/1998
5390	Beaufortia purpurea	3					Gooseberry Hill, Darling Range	-31.9614	116.0583	AUTO	3	28/11/1903
5390	Beaufortia purpurea	3					Greenmount	-31.9003	116.0353	MAN	3	10/01/1954
5390	Beaufortia purpurea	3	Dense low shrub, to 1.5 m. Flowers carmine red - purple. In full flower.	Gentle slope. Lateritic sandy clay over laterite.	Eucalyptus wandoo low open woodland over heath.		Talbot Road Reserve, Middle Swan	-31.9	116	MAN	0	6/11/1990
5390	Beaufortia purpurea	3	Small open spreading shrub to 0.15 m high. Multi-branching from base	Yellow gritty clay, with surface gravel and cobbels, on a steep north-eastern upper slope.	Xanthorrhoea acanthostachya, Daviesia horrida Open Low Scrub, over Verticordia acerosa, Calothamnus sanguineus, Dryandra lindleyana var. lindleyana Dense Low Heath, over Borya sphaerocarpha Open Herbs.		Gooseberry Hill National Park, c. 200m E of first (highest) U-turn on Zig Zag Drive, about 90 m SE of granite outcrop. (Plot-ZIGZ01)	-31.9379	116.0537	GPS	1	19/09/1996
16618	Boronia humifusa	1	with viscid leaves and pink flowers.	Dry hilltop laterite with surface boulders.	Jarrah and Marri open woodland with Dryandra sessilis, D. lindleyana, Grevillea wilsonii.		Snowball Road, on Parkland 0.55 km W of St Emiles Road, Kalamunda	-31.9668	116.0431	GPS	1	17/07/2002
4444	Boronia tenuis	4		Red stony soil.			Kalamunda.	-31.9667	116.05	MAN	3	22/08/1953
3178	Byblis gigantea	3	Insectivous plant. Large mauve flowers.	Growing in grey sand (white silica sand mixed with humis) soils.	Low shrubs on winter wet swamp flat heathland.		Newburn	-31.9753	115.9739	MAN	2	11/12/2001
5396	Calothamnus accedens	4					Ridge Hill Road, Helena Valley	-31.9333	116.0667	TOPO	3	/11/1977
5396	Calothamnus accedens	4	Shrub to 1 m, with lignotuber.	In gravelly clay.	In Marri - Wandoo woodland.		Corner of Bulkirra Road and Ridge Hill Road, Helena Valley	-31.9333	116.0333	UNK	3	21/11/2006
13653	Calytrix breviseta subsp. breviseta	T	Flowers purple-blue.	Swampy clay flats.			Bellevue, 12 miles E of Perth	-31.9	116.0167	MAN	3	5/10/1901
13653	Calytrix breviseta subsp. breviseta	T		Swampy ground.			Bellevue	-31.9	116.0167	MAN	3	/10/1901
13653	Calytrix breviseta subsp. breviseta	T		Swampy ground.			Bellevue	-31.8997	116.0164	AUTO	3	5/10/1901
13999	Conospermum undulatum	T	Perennial shrub, 0.80 m high x 0.20 m wide. Flowers white.	Plain. Dry grey soil. Old soil disturbance.	Medium trees. With Banksia menziesii, Allocasuarina fraseriana, Xanthorrhoea preissii, Conostylis aculeata, Anigozanthos manglesii, Adenanthos cygnorum.	Population stru	Lot 22 Bedford Crescent, Forrestfield	-31.9813	115.9855	GPS	1	24/07/2009
13999	Conospermum undulatum	T	Shrub to 2 m. Leaf margins undulate. Inflorescences emergent above branches.	Low rise, grey sand.	In Banksia open low woodland A over Low scrub A and Low heath D.		c. 500 m N of Tonkin Highway along fence bordering W side of Forrestfield marshalling yards	-31.9772	115.9789	MAN	0	24/10/1990
13999	Conospermum undulatum	T					Gooseberry Hill, Darling Ranges	-31.9614	116.0583	AUTO	3	/06/1901
13999	Conospermum undulatum	T		Yellow sand over laterite.	With Allocasuarina fraseriana, A. humilis, Eucalyptus marginata, Banksia grandis, B. menziesii, Lambertia multiflora, Hakea conchifolia, Isopogon drummondii, B. incana.	Abundance: 50	Northside Dawson avenue, Forrestfield, SW of Rubbish Tip, inside and outside cyclone fence in Gazetted Reserve 41156	-31.9792	115.9958	MAN	0	6/10/1990
13999	Conospermum undulatum	T		Clayey sand over gravel.	Open woodland of Eucalyptus marginata, E. calophylla over open low scrub A of Hakea sp., over dense low heath c.	Abundance: 50	Watsonia road, Maida Vale just north of Gooseberry Hill road, E & W side of road	-31.9514	116.0319	MAN	0	/09/1990
13999	Conospermum undulatum	T		Yellow-grey sand, flat.	Banksia attenuata - B. menziesii Low Woodland A over open Low Scrub B.	Abundance: 40	Sultana road, High Wycombe, uncleared block on S side opposite Ravenswood road and Brand road	-31.9653	116.0028	MAN	0	14/10/1990
13999	Conospermum undulatum	T					Vicinity of Forrestfield, off Dunbara road, Perth,	-31.9686	115.9889	MAN	0	20/10/1992
13999	Conospermum undulatum	T	Narrow, erect shrub. Leaves distinctly undulate. Inflorescences emergent above branches.	Grey-white sand over laterite. Flat to gradual slope.	Banksia attenuata, B. menziesii Low Woodland over dwarf scrub and low heath.	Abundance: c.	Between Dundas road and Roe Highway, both N and S side of Bedford Crescent, Forrestfield	-31.9833	115.9861	MAN	0	19/10/1990
13999	Conospermum undulatum	T		Yellow sand over laterite.	Open low woodland of Allocasuarina fraseriana and Eucalyptus marginata over dense low heath C of Lambertia multiflora with some Banksia incana.	Abundance: 80	S side Roe Highway between highway and Dawson road Rubbish Tip, Forrestfield, also on Roe Highway road verge	-31.9792	115.9931	MAN	0	6/10/1990
13999	Conospermum undulatum	T		Grey sand over yellow sand.	Open low woodland of Allocasuarina fraseriana, Banksia attenuata over heath B over low heath C. Lambertia multiflora, Hakea conchifolia, Adenanthos cygnorum, Isopogon drummondii.	Abundance: 50	Brae road, High Wycombe, vacant block opposite Lot 70 and between Lots 63 & 79	-31.9583	116	MAN	0	14/10/1990
13999	Conospermum undulatum	T	Erect shrub to 1.5 m.	Grey sand.	Open woodland, Eucalyptus marginata, Banksia attenuata, Banksia menziesii, Stirlingia latifolia, Hibbertia hypericoides.	Abundance: c.	High Wycombe, S of Adelaide Street	-31.9481	116.0069	MAN	0	8/11/1994
13999	Conospermum undulatum	T	Woody, open, few stemmed shrub to 1m high, perianth segments black, leaves basal.	On small unfenced suburban block. Grey sandy soil.	With Eucalyptus marginata and shrub understorey including Casuarina, Lambertia, Dasyopogon, Hibbertia spp.		Maida Vale, at corner of Kalamunda Road and Midland Road,	-31.95	116.0167	MAN	0	3/10/1996
13999	Conospermum undulatum	T		Yellow clayey sand over gravel.	Surrounded by dense low heath.	Abundance: 50	WAWA pump station site on SE corner of intersection of Midland road and Kalamunda road, Maida Vale, southside adjacent to Primary School	-31.9492	116.0203	MAN	0	14/10/1990
13999	Conospermum undulatum	T		Sand and gravel, flat.	In Banksia - Eucalyptus low forest B over open low scrub A over dense low heath C. Lambertia multiflora and Isopogon drummondii.	Abundance: 10	Hawkevale Farm Village, High Wycombe, SW side of Roe Highway, Adelaide street junction	-31.9375	116.0125	MAN	0	7/10/1990

13999	Conospermum undulatum	T		Grey sand.	In low forest A over low heath C. Associated species, Banksia menziesii Eucalyptus marginata, Allocasuarina fraseriana, Lambertia multiflora, Isopogon drummondii.	"Fleming Reserve", High Wycombe, bounded by Upton road, Smith Crescent and Newburn road	Abundance: 15	-31.9444	115.9944	MAN	0	7/10/1990
13999	Conospermum undulatum	T		Flat land on orange-yellow clayey sand over laterite.	In open low woodland of Eucalyptus marginata, E. calophylla over dense low heath.	Maida Vale Recreation Reserce, uncleared E portion S of Ridge Hill road area c. 200 m x 500 m	Abundance: 20	-31.9472	116.0275	MAN	0	/09/1990
13999	Conospermum undulatum	T		Grey sand over yellow sand.	Low woodland A of Eucalyptus marginata, Allocasuarina fraseriana, Banksia menziesii, over open low scrub of Lambertia multiflora with Isopogon drummondii over dense low heath C	Brand road, High Wycombe on vacant lot adjoining Lot 4 and opposite Lots 7 & 9	Abundance: 10	-31.9619	116.0019	MAN	0	14/10/1990
13999	Conospermum undulatum	T		Grey sand over laterite, flat.	Open low woodland A of Eucalyptus marginata, E. calophylla, Banksia menziesii and B. attenuata over dense heath B.	Agriculture Protection Board Research Centre, Bougainville Avenue, Forrestfield	Abundance: 10	-31.9917	116.025	MAN	3	23/04/1990
13999	Conospermum undulatum	T		Yellow clayey sand over gravel.	Low Woodland A of Eucalyptus marginata and E. calophylla over heath B of Lambertia multiflora over low heath C.	NW corner of intersection of Edney and Newburn road, High Wycombe Primary School site	Abundance: 15	-31.95	116.0042	MAN	0	14/10/1990
13999	Conospermum undulatum	T	Erect, narrow shrub 1.2 m high.	Grey sand over laterite on flat terrain.	Woodland and heath with Banksia attenuata, B. menziesii, Allocasuarina fraseriana, Isopogon drummondii.	Gazetted Reserve 31709, Bedford Crescent, off Dundas road, Forrestfield	Abundance: 15	-31.9806	115.9861	MAN	0	23/04/1990
13999	Conospermum undulatum	T		On sand.	Jarrah-sheoak association.	Maidavale	Abundance: 15	-31.9497	116.0164	AUTO	3	22/08/1961
13999	Conospermum undulatum	T		Red gravelly clay, with lateritic gravel, on a gentle northern lower slope.	Eucalyptus marginata, E. calophylla Open Low Woodland, over Hakea lissocarpa, Acacia pulchella, Xanthorrhoea preissii Dense Low Heath, over Conostylis setigera, Mesomelaena tetragona Open Tall Sedges.	E of Watsonia Rd, Gooseberry Hill, about 40 m N of Gooseberry Hill Rd, and 50 m E of Watsonia Rd. (Plot-GBHR02)		-31.9516	116.0331	GPS	1	20/09/1996
13999	Conospermum undulatum	T		NNW aspect. Slope. Dry yellow/grey sand.	(Muir's) Jarrah, marri and Allocasuarina fraseriana woodland. Hakea trifurcata, H. conchifolia, H. ruscifolia, H. lissocarpa, H. stenocarpa, Isopogon dubius, I. drummondii, Xanthorrhoea preissii, X. gracilis, Lambertia multiflora, Hibbertia hypericoide	Population 1a is located at the junction of Kalamunda Road and Midland Road adjoining the NW boundary of Maida Vale Primary School. Ridge Hill Road forms the northern boundary of population 1b and it comprises the remnant bush surrounding the Archery Club NW side of Milnere road between Sultana road and Berkshire road, High Wycombe		-31.9471	116.0287	GPS	1	23/09/1998
13999	Conospermum undulatum	T		Grey sand over yellow sand.	Low woodland A (Banksia menziesii, Eucalyptus marginata, Allocasuarina fraseriana over dense low heath.			-31.9611	115.9917	MAN	0	14/10/1990
13999	Conospermum undulatum	T		N-W aspect. Slope. Dry brown/yellow/grey sand/loam/clay/gravel.	(Muir's) Jarrah, Marri open woodland. Xanthorrhoea preissii, X. gracilis, Acacia pulchella, Dryandra lindleyana, Hakea ruscifolia, H. undulata, H. lissocarpa, Zamia, Hibbertia hypericoide, Daviesia decurrens, Leschenaultia biloba, Sedge sp., Hypocalymma	SW corner of population 2a is found from Watsonia Road 150 m N of Gooseberry Hill Road on the eastern block. Pop. 2b can be found on the western side of Watsonia Road		-31.9496	116.0326	GPS	1	23/09/1998
13999	Conospermum undulatum	T	Shrub to 1.5 m. Flowers smokey-white, in full flower.	Yellow sand, colluvial.	Banksia menziesii/attenuata low forest.	Sultana road, Forrestfield		-31.9775	115.9961	MAN	0	20/08/1991
13999	Conospermum undulatum	T		Small rise at base of Darling Scarp. Dry, yellow-grey sand.	Woodland over shrubland. Associated species: Alexgeorgea nitens, Daviesia nudiflora, Dryandra lindleyana, Pityrodia bartlingii, Hakea ruscifolia, Hibbertia hypericoide, Jarrah, Marri, Bossiaea eriocarpa.	Lot 202 Watsonia Road, Maida Vale	Condition of plot	-31.9642	116.032	UNK	2	9/03/2005
13999	Conospermum undulatum	T	Multi-stemmed erect shrub 1-1.5 m high. Flowers silvery-white; in flower.	Edges of and shallow sandy rises. Grey sand over clay.	Disturbed ? Banksia low woodland.	Intersection Roe - Tonkin Highway; eastern side, Kewdale		-31.9871	115.9892	GPS	1	15/10/2005
13999	Conospermum undulatum	T				Vicinity of Forrestfield, off Dunbara Road. Perth		-31.9783	115.9867	MAN	2	20/10/1992
13999	Conospermum undulatum	T				Vicinity of Forrestfield, off Dunbara Road, Perth		-31.9783	115.9867	MAN	2	20/10/1992
13999	Conospermum undulatum	T	Erect shrub.	Plain. Grey sand.		Private property, 78 Brand Road, High Wycombe	Plants in very high	-31.957	116.009	MAN	1	7/10/2003
13999	Conospermum undulatum	T	Erect shrub. Plants flowering but many have lost buds.	Watercourse. Grey sand.		Poison Gully Creek, High Wycombe - population follows the creek line NW from the end of Mark Place, the majority occurring 100 m NW from the junction of Mark Place and Palmer Crescent		-31.9496	115.9938	MAN	1	7/10/2003
13999	Conospermum undulatum	T		Sandy soil. Not burnt.	Banksia woodland.	End of Adelaide Road, High Wycombe		-31.9314	116.0169	MAN	3	//
13999	Conospermum undulatum	T			Burnt and regenerating.	Adelaide Road, High Wycombe		-31.9314	116.0169	MAN	3	//
13999	Conospermum undulatum	T			Regrowth.	Adelaide Road block, High Wycombe		-31.9361	116.0169	MAN	3	//
13999	Conospermum undulatum	T				Adelaide Road and Roe Highway		-31.9317	116.0178	MAN	3	//
13999	Conospermum undulatum	T	Shrub to 1.5 m tall. Undulate leaves.	Flat. White sand.	Banksia woodland. Associated species: Allocasuarina huegeliana, A. fraseri, Banksia attenuata, Hibbertia sp., Daviesia sp., Adenanthos sp., Lambertia multiflora var. darlingensis.	Fire and Emergency Services Authority grounds, Dundas Road (E side) Forrestfield		-31.9773	115.9932	GPS	1	1/11/2001
13999	Conospermum undulatum	T		Low lying plain, swamp-like in winter. Moist white-grey sand-clay over laterite. Plants begin ca 500 m N of Tonkin Highway intersection along road verge and into private property behind verge into bush.	Associated vegetation: Eucalyptus totidiana, Melaleuca, Allocasuarina, Banksia.	On NW verge of Roe Highway between Tonkin Highway and Berkshire Road,	Condition of plot	-31.9829	115.9887	GPS	1	14/01/1999
13999	Conospermum undulatum	T		Flat. Dry grey sand.	Associated species: Banksia sp., Allocasuarina humilis, sedges, Daviesia sp., Dryandra lindleyana, Xanthorrhoea preissii.	Roe Highway, Maida Vale: 1.85 km S of Great Eastern Highway Bypass or 0.9 km N of Kalamunda Road	Condition of plot	-31.9327	116.0184	GPS	1	9/04/2001
13999	Conospermum undulatum	T	Flowers white.	Dune Ridge; flat ground. Brown sand over yellow sand, well drained.	Associated species: Banksia menziesii.	Bushland in private property at the end of Sultana Road. System 6 Update quadrat sultana		-31.9653	116.006	GPS	1	10/11/1995
13999	Conospermum undulatum	T		Gently sloping dune with grey over yellow sand.	Woodland over shrubland with Allocasuarina fraseriana, Banksia attenuata, Banksia menziesii, Xanthorrhoea preissii, Dryandra lindleyana, Lambertia multiflora var. darlingensis, Isopogon drummondii, Caustis dioica, Hakea prostrata and Daviesia nudiflora.	Road reserve heading NW from NW end of gravel road, Adelaide Street, Maida Vale	Central population	-31.9324	116.0205	GPS	1	27/01/2005
13999	Conospermum undulatum	T		Sand dune. Grey sand.	Open Banksia woodland with Eucalyptus marginata, Corymbia calophylla, Banksia attenuata, B. menziesii, B. grandis, Stirlingia latifolia.	Perth Airport		-31.9599	115.9789	GPS	2	26/11/2002
13999	Conospermum undulatum	T	Straggling, multi-stemmed shrub to 1.4 m; leaves crowded at ends of bare branches. Inflorescences and flowers white-woolly, the perianth black inside.	Sandplain - Bassendean Sand.	Jarrah-Marri-Banksia attenuata-Adenanthos cygnorum heathy woodland.	Hawkesvale Bushland Conservation Area, Hazelmere		-31.9169	116.015	GPS	1	11/08/2007
13999	Conospermum undulatum	T	Shrub.	Flat. Grey sand.	Low woodland (Disturbed). Banksia attenuata, Banksia menziesii, Banksia ilicifolia, Hibbertia subvaginata, Dasypogon bromeliifolius, Melaleuca seriata, Lyginia barbata, Patersonia occidentalis.	Perth Airport		-31.9594	115.9778	GPS	1	21/08/2002
13999	Conospermum undulatum	T	Shrub.	Flat. Grey sand.	Woodland. Corymbia calophylla, Banksia attenuata, Banksia menziesii, Melaleuca preissiana, Xanthorrhoea preissii, Hypocalymma angustifolium, Adenanthos obovatus, Regelia ciliata, Jacksonia furcellata.	Perth Airport		-31.9622	115.982	GPS	1	3/09/2002
13999	Conospermum undulatum	T	Erect shrub with grey-white flowers 120 cm high. Flowers grey/white.	Grey sand. + 3 years since fire. Disturbed.	Acacia pulchella var. pulchella, Stirlingia latifolia, Desmodocladus flexuosus, Corymbia citriodora, Persoonia saccata, Synaphea gracillima, Banksia menziesii, B. attenuata, Chamaecytisus palmensis, Eucalyptus totidiana, Melaleuca sericata and Jacksonia flo	Perth Airport		-31.9594	115.9778	GPS	1	21/08/2002
13999	Conospermum undulatum	T	Shrub to 1.5 m, seed.	Light grey sandy soil, slight rise.	Banksia woodland, closed understory, not burnt.	Locally common In natural bush in Webster Rd Forrestfield		-31.98	115.9861	MAN	0	14/12/1994

13999	<i>Conospermum undulatum</i>	T	Perennial, spreading, open shrub, 1 m x 1 m, with white flowers.	Gentle slope at foot of Darling Scarp in reserve which was once a gravel pit, on lateritic gravel. Burnt March 2004.	Regrowth open Jarrah-Marri woodland with <i>Hakea trifurcata</i> , <i>Xanthorrhoea preissii</i> , <i>Calothamnus sanguineus</i> , <i>Hibbertia hypericoides</i> and fringing <i>Dryandra sessilis</i> thicket.	Norwood Reserve (Kalamunda Reserve 22502), off Norwood Road, Maida Vale. 3.8 km WNW of Kalamunda	-31.9602	116.0228	GPS	1	31/10/2004
13999	<i>Conospermum undulatum</i>	T	Low compact shrub, 0.5 m high, with old flowering scapes, leaves linear/narrowly elliptic to 20 mm wide tapering to base, undulating margins.	In grey sand on flat, well-drained site. Frequent slashing between bushland remnants.	Disturbed small remnants of Open <i>Eucalyptus marginata</i> , <i>Banksia menziesii</i> , <i>Allocasuarina fraseriana</i> Woodland over Shrubland of <i>Daviesia divaricata</i> , <i>Xanthorrhoea preissii</i> , <i>Eremaea pauciflora</i> , <i>Hibbertia hypericoides</i> and Very Open Sedgeland of <i>Mesomelaena ps</i>	The road verge Hybanthus Ave road reserve, High Wycombe	-31.9352	116.0132	GPS	1	12/07/2016
13999	<i>Conospermum undulatum</i>	T	Erect compact shrub, 0.8 m high with old flowering scapes, leaves narrowly linear to 10 mm wide. tapering to base, distinctly undulating leaf margins.	In grey sand on flat, well-drained site. Frequent slashing between bushland remnants.	Woodland of <i>Eucalyptus marginata</i> over Low Closed Forest of <i>Banksia menziesii</i> , <i>Allocasuarina fraseriana</i> , <i>Agonis flexuosa</i> (naturalised from planting), over Shrubland of <i>Adenanthos cygnorum</i> , <i>Lambertia multiflora</i> , <i>Daviesia divaricata</i> over Low Shrubland of <i>Al</i>	Hybanthus Ave, High Wycombe	-31.9352	116.0133	GPS	1	12/07/2016
5505	<i>Darwinia apiculata</i>	T	Densely branched, low, spreading shrub. 20 cm high x 80 cm wide.	Flat with laterite and brown loam.	Open <i>Eucalyptus</i> woodland, <i>Eucalyptus marginata</i> and <i>Corymbia calophylla</i> over <i>Allocasuarina fraseriana</i> , <i>Banksia sessilis</i> , <i>Xanthorrhoea preissii</i> shrubland. Many weedy and introduced species including <i>Briza maxima</i> , <i>Ursinia anthemoides</i> , <i>Chamaecytisus palmensis</i>	Reserve 30142 (Lot 2261) between Alpine Road and Yorna Road, Kalamunda, Shire of Kalamunda	-31.9788	116.0439	GPS	1	10/11/2011
5505	<i>Darwinia apiculata</i>	T		Private land. Hilltop of moist concretionary gravel and laterite.	Open low woodland with associated vegetation: Marri - Jarrah, <i>Dryandra sessilis</i> , <i>Dryandra</i> sp., <i>Conostylis</i> sp, <i>Hardenbergia comptoniana</i> , numerous <i>Orchiaceae</i> spp.	13 Ozone terrace, Kalamunda. Uncleared private Healthy popula property lot	-31.9803	116.0381	GPS	1	25/07/2006
5505	<i>Darwinia apiculata</i>	T		Uncleared area.		Uncleared area W of Alpine Road, W of Kalamunda	-31.9667	116.0333	UNK	3	17/10/1982
41810	<i>Eryngium</i> sp. <i>Subdecumbens</i> (G.J. Keighery 53)	3		Swamp.		Midland Junction	-31.9	116	MAN	3	18/12/1899
13451	<i>Grevillea manglesii</i> subsp. <i>dissectifolia</i>	3		N aspect. Slope. Dry brown/yellow loam/clay.	(Muir's) Open marri woodland. <i>Hakea trifurcata</i> , <i>H. undulata</i> , <i>H. erinacea</i> , <i>Acacia pulchella</i> , <i>Dryandra lindleyana</i> , <i>D. armata</i> , <i>Daviesia horrida</i> , <i>Petrophile biloba</i> , <i>Xanthorrhoea preissii</i> , <i>Grevillea pilulifera</i> . Vegetation classification: Scattered Marri. Associated species: <i>Hakea trifurcata</i> <i>Hakea undulata</i> , <i>Hakea erinacea</i> , <i>Acacia pulchella</i> , <i>Dryandra armata</i> , <i>Dryandra lindleyana</i> , <i>Grevillea pilulifera</i> , <i>Xanthorrhoea preissii</i> .	Helena Valley Road 900 m E of Ridge Hill Road roundabout then walk 18 m S of the bitumen to the first plant, Darling Range Regional Park, Helena Valley Block, Helena Valley: take Helena Valley Road for 0.9 km E of Ridge Hill Road roundabout - the plants grow upslope	-31.9293	116.0534	GPS	1	18/10/1998
13451	<i>Grevillea manglesii</i> subsp. <i>dissectifolia</i>	3		Landform: slope/outcrop. Rock type: granite. Rock form: boulder. Soil type: sand, loam and clay. Soil colour: brown/yellow. Soil condition: dry.		Condition of pc on the S side of the road	-31.9295	116.0538	GPS	1	7/11/2003
13451	<i>Grevillea manglesii</i> subsp. <i>dissectifolia</i>	3		N aspect. Slope. Dry brown/yellow loam/clay.	(Muir's) Open marri woodland. <i>Hakea trifurcata</i> , <i>H. undulata</i> , <i>H. erinacea</i> , <i>Acacia pulchella</i> , <i>Dryandra lindleyana</i> , <i>D. armata</i> , <i>Daviesia horrida</i> , <i>Petrophile biloba</i> , <i>Xanthorrhoea preissii</i> , <i>Grevillea pilulifera</i> .	Helena Valley Road 900 m E of Ridge Hill Road roundabout then walk 18 m S of the bitumen to the first plant, Bushland in private property at the end of Sultana Road in System 6 Update quadrat sultaa Kalamunda (Lesmurdie Falls). Helena Valley. Gooseberry Hill, Darling Range	-31.9293	116.0534	GPS	1	18/10/1998
1469	<i>Haemodorum loratum</i>	3	Annually renewed perennial herb.	Dune Ridge, flat ground, brown sand over yellow sand, well drained.	Associated species: <i>Banksia menziesii</i> .		-31.9653	116.006	GPS	1	10/11/1995
6686	<i>Halgania corymbosa</i>	3	Flowers blue.				-31.9667	116.05	MAN	3	11/1919
6686	<i>Halgania corymbosa</i>	3	1.5-2 ft high. Flowers deep blue-purple.	Granite.	Some trees very scarce.		-31.9333	116.0333	MAN	3	16/10/1977
11074	<i>Hydrocotyle striata</i>	1	Leaves to 3/4" diameter, 5-7 lobed, lobes cerate.				-31.9614	116.0583	AUTO	3	08/10/1898
29775	<i>Isopegon drummondii</i>	3	Shrub to 0.6 m high.	Grey sand.	Open woodland, <i>Eucalyptus marginata</i> , <i>Banksia attenuata</i> , <i>Banksia menziesii</i> , <i>Stirlingia latifolia</i> , <i>Hibbertia hypericoides</i> .	High Wycombe, S of Adelaide Street	-31.9481	116.0069	MAN	0	8/11/1994
29775	<i>Isopegon drummondii</i>	3	Erect multistemmed shrub, 40 x 50/60 cm wide, flowers pale yellow, largely past flowering.	Yellow sand.	Open <i>Banksia</i> woodland.	Base Welshpool Road, Darling Scarp, 20 km E of Perth	-31.9667	116.0167	MAN	3	10/06/1984
29775	<i>Isopegon drummondii</i>	3	Flowers pale yellow.			Near Bellevue, Perth	-31.8997	116.0164	AUTO	3	06/1900
29775	<i>Isopegon drummondii</i>	3		Grey sand over yellow sand, flat.	<i>Eucalyptus marginata</i> , <i>Allocasuarina fraseriana</i> , <i>Banksia menziesii</i> Low Woodland A over open Low Scrub B. <i>Lambertia multiflora</i> and <i>Conospermum undulatum</i> associated.	Vacant lot, NW side of Brand road, High Wycombe	-31.9619	116.0019	MAN	0	14/10/1990
29775	<i>Isopegon drummondii</i>	3				Maida Vale	-31.9497	116.0164	AUTO	3	18/05/1939
29775	<i>Isopegon drummondii</i>	3		Flat, sand.	<i>Banksia menziesii</i> Low Forest B over Open Low Scrub A and Dense low heath C. <i>Lambertia multiflora</i> , <i>Conospermum undulatum</i> and <i>Banksia incana</i> associated.	Hawkeval Farm Village, High Wycombe	-31.9375	116.0125	MAN	0	7/10/1990
29775	<i>Isopegon drummondii</i>	3		Flat, grey sand over yellow sand.	Open low woodland of <i>Allocasuarina fraseriana</i> , <i>Banksia attenuata</i> over Heath B and Low Heath C. <i>Lambertia multiflora</i> , <i>Hakea conchifolia</i> and <i>Conospermum undulatum</i> .	Vacant block on south side of Brae road, High Wycombe	-31.9583	116	MAN	0	13/10/1990
29775	<i>Isopegon drummondii</i>	3	Erect shrub.	Grey sand on flat ground.	Open low woodland A over dense heath B with <i>Banksia attenuata</i> , <i>B. menziesii</i> , <i>Eucalyptus marginata</i> , <i>E. calophylla</i> .	Agriculture Protection Board, Bougainvillea Avenue, Forrestfield	-31.9792	116	MAN	0	6/04/1990
29775	<i>Isopegon drummondii</i>	3				New gatehouse, Brand Road Landfill Site, High Wycombe	-31.95	116	MAN	0	05/1995
29775	<i>Isopegon drummondii</i>	3	Erect shrub to 100 cm with creamy-yellow flowers and woolly grey fruiting cones.	In white-yellow sand over laterite on flat land.	Woodland with <i>Banksia attenuata</i> , <i>B. menziesii</i> , <i>Casuarina fraseriana</i> , <i>Eucalyptus marginata</i> .	Abundance: ab both side of cyclone fence	-31.9778	115.9972	MAN	0	4/04/1990
29775	<i>Isopegon drummondii</i>	3	Erect shrub to 1 m with creamy yellow flowers.	White yellow sand over laterite.	Very open woodland with dominant heath understory with <i>Casuarina fraseriana</i> , <i>Allocasuarina humilis</i> , <i>Lambertia multiflora</i> , <i>Hakea conchifolia</i> .	Reserve No 37260 vested W.A. Fir Brigades, Forrestfield, c. 2/3 along S boundary (Roe Hwy) on inner side of internal firebreak	-31.9778	115.9944	MAN	0	11/04/1990
29775	<i>Isopegon drummondii</i>	3	Shrub to c 1 m, leaves terete, pungent. Flowers terminal.	Grey sand over laterite. Flat to gradual slope.	<i>Banksia attenuata</i> , <i>B. menziesii</i> , low woodland A over heath with <i>Hakea conchifolia</i> , <i>Conospermum undulatum</i> .	BETween Dundas road and Roe highway both north and south of Bedford Crescent, Forrestfield	-31.9833	115.9861	MAN	0	19/10/1990
29775	<i>Isopegon drummondii</i>	3		Flat. Brown/grey sand.	Open - scattered Jarrah/Cas. <i>fraseriana</i> / <i>Nuytsia floribunda</i> / <i>Banksia attenuata</i> , <i>B. grandis</i> & <i>B. menziesii</i> , <i>Dryandra nivea</i> , <i>Adenanthos cygnorum</i> , <i>Mesomelaena tetragona</i> .	Kalamunda Shire Reserve - Forrestfield, bordering Dawson Avenue	-31.9764	115.9992	MAN	0	13/03/1991
29775	<i>Isopegon drummondii</i>	3		Flat, sand.	<i>Banksia menziesii</i> , <i>Eucalyptus marginata</i> and <i>Allocasuarina fraseriana</i> Low forest A over Low Heath C.	Area partly bur Crescent and Newburn road High Wycombe	-31.9444	115.9944	MAN	0	7/10/1990
29775	<i>Isopegon drummondii</i>	3		Flat, grey sand over yellow sand.	<i>Banksia menziesii</i> , <i>B. attenuata</i> Low Woodland A over Open Low Scrub B and Low Heath C. <i>Lambertia multiflora</i> and <i>Conospermum undulatum</i> .	Sultana road, High Wycombe, uncleared block on S side, opposite Ravenswood road and Brand road Roe Highway, Hazelmere and Maida Vale. The plants grow in 4 scattered populations along the eastern verge of Roe Highway from 100 m to 1.7 km S of the Great Eastern Highway Bypass	-31.9653	116.0028	MAN	0	13/10/1990
29775	<i>Isopegon drummondii</i>	3		Flat. Dry grey sand.	(Muir's) Scattered Jarrah, Marri with <i>Banksia</i> sp. Associated species: <i>Adenanthos cygnorum</i> , <i>Dryandra sessilis</i> , <i>D. lindleyana</i> , <i>Isopegon</i> sp., <i>Allocasuarina humilis</i> , sedges, <i>Jacksonia</i> sp., <i>Xanthorrhoea priessii</i> . Woodland over shrubland with <i>Eucalyptus marginata</i> , <i>Allocasuarina fraseriana</i> , <i>Banksia attenuata</i> , <i>B. menziesii</i> and <i>Conospermum undulatum</i> .	Condition of pc Eastern Highway Bypass	-31.9171	116.0148	GPS	1	9/04/2001
29775	<i>Isopegon drummondii</i>	3		Small gently sloping dune with yellow over grey sand.		Road reserve heading NW from NW end of gravel road, Adelaide Street, Maida Vale	-31.9319	116.0197	GPS	1	27/01/2005
29775	<i>Isopegon drummondii</i>	3	Upright single stem shrub, early fruit.	Dune Ridge, flat ground, brown sand over yellow sand, well drained.	Associated species: <i>Banksia menziesii</i> .	Bushland in private property at the end of Sultana Road in System 6 Update quadrat sultaa	-31.9653	116.006	GPS	1	10/11/1995
29775	<i>Isopegon drummondii</i>	3	Small shrub to 1 m high with pointy leaves.	In yellow sand rise on Ridge Hill Shelf.	Occurs in Plot with <i>Banksia menziesii</i> , <i>Allocasuarina fraseriana</i> , <i>A. humilis</i> , <i>Hakea ruscifolia</i> , <i>Pityrodia bartlingii</i> , <i>Stirlingia latifolia</i> , <i>Hibbertia hypericoides</i> and <i>Daviesia nudiflora</i> .	In Stirling Crescent Plot 1. Located in road reserve ca 300 m S of Great Eastern Highway Bypass and Roe Highway, Hazelmere, and ca 10 m W of fence on private land	-31.9216	116.016	GPS	3	8/06/2006

4027	<i>Jacksonia sericea</i>	4	3 ft rambling plant, flowers reddish.			Bushmead	-31.9167	116	MAN	0	6/12/1962
5025	<i>Lasiopetalum bracteatum</i>	4				Kalamunda	-31.9667	116.05	MAN	3	6/11/1960
5025	<i>Lasiopetalum bracteatum</i>	4				Darlington	-31.9167	116.0667	MAN	3	/10/1914
5025	<i>Lasiopetalum bracteatum</i>	4				Darling Range, near Darlington	-31.9167	116.0667	MAN	4	6/11/1900
5025	<i>Lasiopetalum bracteatum</i>	4				Darling Range, near Darlington.	-31.9167	116.0667	MAN	4	17/11/1902
5025	<i>Lasiopetalum bracteatum</i>	4				Darling Range, near Darlington	-31.9167	116.0667	MAN	4	17/11/1902
5025	<i>Lasiopetalum bracteatum</i>	4				Darlington, Swan District.	-31.9167	116.0667	MAN	3	/10/1901
5025	<i>Lasiopetalum bracteatum</i>	4		Stream side.		Darlington, Darling Range, E of Perth.	-31.9167	116.0667	MAN	3	/11/1901
5025	<i>Lasiopetalum bracteatum</i>	4	Shrub, sepals and floral bracts reddish-purple.		Open Low Woodland of <i>Eucalyptus calophylla</i> , <i>Thomasia glutinosa</i> , <i>Petrophile biloba</i> .	Kalamunda (Lesmurdie Falls).	-31.9667	116.05	MAN	3	/11/1919
5025	<i>Lasiopetalum bracteatum</i>	4	Erect spreading shrub 1 m high.	Slope to river, yellow brown sandy loam.		Lesmurdie Falls National Park, track below upper carpark, near picnic site	-31.9833	116.0167	MAN	0	14/09/1992
5025	<i>Lasiopetalum bracteatum</i>	4				Helena River.	-31.9167	116.0333	MAN	4	/10/1924
5025	<i>Lasiopetalum bracteatum</i>	4	Erect, open shrub 80 cm high x 60 cm wide. Flowers pink, dark purple at base.	Hillside. Littered, brown loam over granite.	Very open wandoo woodland with <i>Eucalyptus wandoo</i> , <i>Hakea lissocarpha</i> , <i>Calothamnus quadrifidus</i> .	Abundance: oc Whistletype Gully at the end of Lewis Road, Forrestfield Helena Valley	-31.9816	116.0301	GPS	1	3/10/1997
5025	<i>Lasiopetalum bracteatum</i>	4					-31.9167	116.0333	MAN	0	28/10/1986
5025	<i>Lasiopetalum bracteatum</i>	4	Erect shrub, 1.5 m high x 1 m wide. Deep pink flower with maroon centre.	Streamside. Wet, dense vegetation on surface of brown clay, granite.	Woodland with Marri, Wandoo, <i>Hakea trifurcata</i> and <i>Leucopogon. Xanthorrhoea acanthostachya</i> , <i>Daviesia horrida</i> Open Low Scrub, over <i>Verticordia acerosa</i> , <i>Calothamnus sanguineus</i> , <i>Dryandra lindleyana</i> var. <i>lindleyana</i> Dense Low Heath, over <i>Borya sphaerocarpha</i> Open Herbs.	'Helena Velvet Bibbulmun Track, Kalamunda National Park,	-31.9602	116.0684	GPS	1	6/11/2000
45081	<i>Lasiopetalum glutinosum</i> subsp. <i>glutinosum</i>	3		Yellow gritty clay, with surface gravel and cobbels, on a steep north-eastern upper slope.		Gooseberry Hill National Park, c. 200m E of first (highest) U-turn on Zig Zag Drive, about 90 m SE of granite outcrop. (Plot-ZIGZ01)	-31.9379	116.0537	GPS	1	19/09/1996
45081	<i>Lasiopetalum glutinosum</i> subsp. <i>glutinosum</i>	3				Darlington	-31.9167	116.0667	MAN	3	/10/1901
45081	<i>Lasiopetalum glutinosum</i> subsp. <i>glutinosum</i>	3				Darlington, Darling Range	-31.9167	116.0667	MAN	3	6/11/1900
45081	<i>Lasiopetalum glutinosum</i> subsp. <i>glutinosum</i>	3				Gooseberry Hill, Darling Ranges	-31.95	116.05	MAN	3	21/10/1897
45081	<i>Lasiopetalum glutinosum</i> subsp. <i>glutinosum</i>	3		Gravel over granite.		Darlington	-31.9167	116.0667	MAN	3	8/09/1931
45081	<i>Lasiopetalum glutinosum</i> subsp. <i>glutinosum</i>	3				Gooseberry Hill, Darling Ranges	-31.95	116.05	MAN	3	21/10/1897
45081	<i>Lasiopetalum glutinosum</i> subsp. <i>glutinosum</i>	3				Gooseberry Hill, Darling Ranges	-31.95	116.05	MAN	3	21/10/1897
45081	<i>Lasiopetalum glutinosum</i> subsp. <i>glutinosum</i>	3				Gooseberry Hill, Darling Ranges	-31.95	116.05	MAN	3	21/10/1897
45081	<i>Lasiopetalum glutinosum</i> subsp. <i>glutinosum</i>	3				Positive patch t Darlington	-31.9167	116.0667	MAN	3	12/11/1982
45081	<i>Lasiopetalum glutinosum</i> subsp. <i>glutinosum</i>	3				Darlington, Darling Range	-31.9167	116.0667	MAN	3	6/11/1900
45081	<i>Lasiopetalum glutinosum</i> subsp. <i>glutinosum</i>	3				Gooseberry Hill, Darling Ranges	-31.95	116.05	MAN	3	21/10/1897
45081	<i>Lasiopetalum glutinosum</i> subsp. <i>glutinosum</i>	3	Flowers pink. Height to 2 ft.	Granitic.	Heath.	Helena Valley	-31.9333	116.0333	MAN	3	18/09/1977
45081	<i>Lasiopetalum glutinosum</i> subsp. <i>glutinosum</i>	3		Gravel over granite.		Darlington.	-31.9167	116.0667	MAN	3	8/09/1931
45081	<i>Lasiopetalum glutinosum</i> subsp. <i>glutinosum</i>	3		Yellow gritty clay, with surface gravel and cobbels, on a steep north-eastern upper slope.	Xanthorrhoea acanthostachya, <i>Daviesia horrida</i> Open Low Scrub, over <i>Verticordia acerosa</i> , <i>Calothamnus sanguineus</i> , <i>Dryandra lindleyana</i> var. <i>lindleyana</i> Dense Low Heath, over <i>Borya sphaerocarpha</i> Open Herbs.	Gooseberry Hill National Park, c. 200m E of first (highest) U-turn on Zig Zag Drive, about 90 m SE of granite outcrop. (Plot-ZIGZ01)	-31.9379	116.0537	GPS	1	29/11/1996
19241	<i>Lepyrodia curvescens</i>	2	Sedge to 0.2 m tall. Stems to 1 mm diameter, flowering heads to 5 cm long.	On boundary of Southern River and Ridge Hill Shelf soil and landform units.	On edge of wetland with associated vegetation: <i>Jacksonia floribunda</i> , <i>Eucalyptus todtiana</i> , <i>Caustis diocia</i> , <i>Xanthorrhoea ? drummondii</i> , <i>Hibbertia hypericoides</i> , <i>Acacia sessilis</i> , <i>Dryandra lindleyana</i> . Very open Marri woodland over sparse shrubs and dense sedges. Characteristic species: <i>Corymbia calophylla</i> , <i>Kingia australis</i> and <i>Mesomelaena tetragona</i> .	Stirling Crescent Plot 2. Located ca 300 m S of Great Eastern Highway Bypass and ca 200 m W of Roe Highway, Hazelmere, in road reserve	-31.9191	116.013	GPS	1	8/06/2006
19241	<i>Lepyrodia curvescens</i>	2	Tufted restiad. Male & female.	Flat coastal plain. Dry littered surface on grey sand.	Beneath tall <i>Banksia</i> , <i>Eucalyptus</i> and <i>Nuytsia</i> with <i>Acacia pulchella</i> , <i>Eriostemon spicatus</i> .	Remnant bushland S of Great Eastern Highway bypass and between Stirling Cr. and Roe Highway, Hazelmere	-31.9185	116.012	GPS	1	25/11/2003
17106	<i>Macarthuria keigheryi</i>	T	Weak herb with yellow flowers.	Sandy soil.	Very open woodland. <i>Eucalyptus marginata</i> , <i>Allocasuarina</i> , <i>Banksia grandis</i> .	Kewdale	-31.9667	115.9667	MAN	0	7/09/1976
17106	<i>Macarthuria keigheryi</i>	T	Low multistemmed shrub 15 cm high x 20 cm wide. In flower, mostly bud.	Plain, dry grey sand.		Abundance: co Kenwick,	-31.9764	115.9881	MAN	0	/03/1996
17106	<i>Macarthuria keigheryi</i>	T	Low shrub 20 cm high x 15 cm wide.	Grey sand over white sand.	Scattered Jarrah over <i>Allocasuarina fraseriana</i> , <i>Banksia menziesii</i> , <i>B. attenuata</i> and <i>Nuytsia floribunda</i> Open Low Woodland A over scattered <i>Kingia australis</i> over <i>Stirlingia latifolia</i> and <i>Hibbertia hypericoides</i> Dwarf Scrub C over <i>Stipa compressa</i> Open Low Gr	Dundas Road, Forrestfield, S at the entrance to the Fire Severe fire in 1 Training establishment. (System 6 Area M53)	-31.9764	115.9881	TOPO	3	28/02/1996
17106	<i>Macarthuria keigheryi</i>	T	Low shrub 20 cm high x 15 cm wide.	Grey sand over white sand.	Scattered Jarrah over <i>Allocasuarina fraseriana</i> , <i>Banksia menziesii</i> , <i>B. attenuata</i> and <i>Nuytsia floribunda</i> Open Low Woodland A over scattered <i>Kingia australis</i> over <i>Stirlingia latifolia</i> and <i>Hibbertia hypericoides</i> Dwarf Scrub C over <i>Stipa compressa</i> Open Low Gr	Dundas Road, Forrestfield, S at the entrance to the Fire Severe fire in 1 Training establishment. (System 6 Area M53)	-31.9764	115.9881	TOPO	3	28/02/1996
17106	<i>Macarthuria keigheryi</i>	T	Low shrub 20 cm high x 15 cm wide.	Grey sand over white sand.	Scattered Jarrah over <i>Allocasuarina fraseriana</i> , <i>Banksia menziesii</i> , <i>B. attenuata</i> and <i>Nuytsia floribunda</i> Open Low Woodland A over scattered <i>Kingia australis</i> over <i>Stirlingia latifolia</i> and <i>Hibbertia hypericoides</i> Dwarf Scrub C over <i>Stipa compressa</i> Open Low Gr	Dundas Road, Forrestfield, S at the entrance to the Fire Severe fire in 1 Training establishment. (System 6 Area M53)	-31.9764	115.9881	TOPO	3	28/02/1996
17106	<i>Macarthuria keigheryi</i>	T		Slope. Sand dune. Dry grey sand.	<i>Adenanthos cygnorum</i> shrubland. Associated species: <i>Adenanthos cygnorum</i> , <i>Calytrix fraseri</i> , <i>Hibbertia hypericoides</i> , <i>Conostephium pendulum</i> , <i>Jacksonia floribunda</i> .	Condition of pc South western area of Perth International Airport	-31.9333	115.9667	MAN	3	1/11/2001
17106	<i>Macarthuria keigheryi</i>	T		On old dune system.	Low open woodland. <i>Xanthorrhoea preissii</i> , <i>Eremaea pauciflora</i> , <i>Banksia menziesii</i> , <i>Jacksonia floribunda</i> , <i>Synaphea polymorpha</i> , <i>Alexgeorgia nitens</i> .	Perth Airport	-31.9639	115.9798	GPS	1	26/11/2002
17106	<i>Macarthuria keigheryi</i>	T	Perennial herb or shrub.	Flat, grey sand.	Disturbed, <i>Banksia attenuata</i> , <i>Banksia menziesii</i> , <i>Banksia ilicifolia</i> , <i>Hibbertia subvaginata</i> , <i>Dasyopogon bromeliifolius</i> , <i>Melaleuca seriata</i> , <i>Lyginia barbata</i> , <i>Patersonia occidentalis</i> .	Perth Airport	-31.9594	115.9778	GPS	1	21/08/2002
33638	<i>Meionectes tenuifolia</i>	3	Slender erect shrub, with weeping branches. 0.75 m high x 2 m wide.			Midland Junction	-31.9	116	MAN	3	19/12/1930
37683	<i>Melaleuca viminalis</i>	2	Flowers red; largely not in flower.	Drain. Brown sandy clay over clay.		Intersection Roe and Tonkin Highway; NE side, Kenwick	-31.9866	115.9892	GPS	1	15/10/2005
36200	<i>Ornduffia submersa</i>	4	Aquatic, flowers and leaves floating on pond surface. Flowers white, floating.	Shallow ephemeral claypans. Brown clay.	With scattered <i>Melaleuca laterita</i> shrubs.	Brixton St., Beckenham, 15 km E of Perth	-31.9583	116.0167	MAN	3	17/11/1989
36200	<i>Ornduffia submersa</i>	4	Annually renewed aquatic herb 1 m wide. Leaves and flowers float on surface of the water.	Sumpland; brown/grey clay over clay.	<i>Melaleuca rhapsiphylla</i> low forest to low woodland over scattered <i>Melaleuca laterita</i> .	Sumpland on the NE corner of bushland block. S of Munday Swamp in the grounds of Perth Airport	-31.9641	115.9698	GPS	1	24/08/1995
17366	<i>Phyllangium palustre</i>	2	Flowers white.			Water to 1 m d (adjacent to site A). (Bush Forever Site 386)	-31.9	116	MAN	3	/10/1901
8163	<i>Pithocarpa corymbulosa</i>	3		granite near granite outcrops		Midland Junction.	-31.9167	116.0497	AUTO	3	28/01/1986
8163	<i>Pithocarpa corymbulosa</i>	3				Reserve C8120, Coulston Road, Boya	-31.9167	116.0497	AUTO	3	28/01/1986
11132	<i>Platysace ramosissima</i>	3		Low sandy rise adjacent to damplands. Dry grey sand over limestone. No fire recorded.	<i>Banksia attenuata</i> and <i>B. menziesii</i> woodland over diverse low shrubland. With <i>Xanthorrhoea preissii</i> , <i>Hibbertia hypericoides</i> , <i>Stirlingia latifolia</i> , <i>Amphipogon turbinatus</i> , <i>Dasyopogon bromeliifolius</i> , <i>Desmocladus flexuosus</i> , <i>Mesomelaena pseudostygia</i> . Very good	Perth Airport Bushland - at S eastern corner adjacent to Grazing and ro: Abernethy Road	-31.9781	115.9769	GPS	1	19/11/2002

11132	<i>Platysace ramosissima</i>	3	Wet Flat. Grey loamy sand over ?clay loam. Poor drainage, wet during winter and spring.	Low Heath C. Associated species: <i>Stirlingia latifolia</i> , <i>Daviesia physodes</i> , <i>Allocasuarina humilis</i> .	Dundas Road Bushland (System 6 Area M53, Bush Forever Site 319). System 6 Update quadrat m 5302, Forrestfield	-31.9739 115.9927 GPS	1	4/11/1994	
17606	<i>Schoenus griffinianus</i>	4	Herb to 0.2 m tall. Stems have red tinge near base and bracts at each branch. Non flowering specimen.	On boundary of Southern River and Ridge Hill Shelf soil and landform units.	On edge of wetland. Associated vegetation: <i>Jacksonia floribunda</i> , <i>Eucalyptus todtiana</i> , <i>Caustis diocia</i> , <i>Xanthorrhoea ? drummondii</i> , <i>Hibbertia hypericoides</i> , <i>Acacia sessilis</i> , <i>Dryandra lindleyana</i> .	Stirling Crescent Plot 2. Ca 300 m S of Great Eastern Highway Bypass and 200 m W of Roe Highway, Hazelmere, in road reserve	-31.9191 116.013 GPS	1	8/06/2006
1008	<i>Schoenus pennisetis</i>	3	Flowers brown.			System 6 area M53 (Bush Forever Site 319), Forrestfield	-31.9769 115.9888 GPS	1	4/11/1994
8205	<i>Senecio gilbertii</i>	1		On laterite plateau.		The Knoll, Gooseberry Hill	-31.95 116.0333 MAN	4	5/10/1957
8205	<i>Senecio gilbertii</i>	1	Spindly perennial, greyish. Leaf undersides woolly.	Massive laterite. Long unburnt area.	Under Jarrah and Bull Banksia, with <i>Zamia</i> , <i>Balga</i> and <i>Kennedias</i> .	Flowers in sum The Knoll, Gooseberry Hill	-31.9423 116.0487 UNK	2	26/12/1994
13571	<i>Sporobolus blakei</i>	3	Tufted perennial.	Granite rubble. Clayey.	Weeds.	Came in when I Helena Valley Picnic Ground	-31.9366 116.0648 UNK	2	16/11/1994
43540	<i>Stackhousia</i> sp. Red-blotched corolla (A. Mark	3				Gooseberry Hill, Darling Range, E of Perth	-31.9614 116.0583 AUTO	3	/10/1897
7756	<i>Stylidium longitubum</i>	4		Moist soil.		Condition of pl. Perth Airport, ca 10 km E of Perth city centre	-31.9646 115.9705 GPS	1	8/11/2012
7803	<i>Stylidium striatum</i>	4				Gooseberry Hill, Darling Range	-31.95 116.05 MAN	3	21/10/1897
7803	<i>Stylidium striatum</i>	4				Gooseberry Hill	-31.95 116.05 MAN	3	21/10/1897
7803	<i>Stylidium striatum</i>	4		On laterite plateau.		The Knoll, Gooseberry Hill	-31.95 116.0333 MAN	4	5/10/1957
14333	<i>Tetratheca</i> sp. Granite (S. Patrick SP1224)	3	Slender subshrub to 60 cm. Stems rough to touch. Leaves elliptic, whorls of 3 to 2 cm, pubescent. Flowers magenta, 5 petalled, pedicillate to 1.5 cm, axillary in leafy racemes.	Sandy/clay/granite outcrop.	With <i>Eucalyptus wandoo</i> .	Edge of escarpment 19 km E of Perth, Whistlepipe Black eyed Sus? Gully, Kalamunda	-31.9667 116.05 MAN	0	19/09/1984
14333	<i>Tetratheca</i> sp. Granite (S. Patrick SP1224)	3	Shrub ca 30 cm high.		Granite outcrop with associated vegetation: <i>Corymbia calophylla</i> , <i>xanthorrhoea preissii</i> , <i>Macrozamia reideri</i> , <i>Hakea cristata</i> .	Lower Helena Dam	-31.9289 116.0703 GPS	1	26/10/2004
20729	<i>Thelymitra magnifica</i>	1		stony ridge		Near Kalamunda	-31.9667 116.05 MAN	3	/10/1931
20729	<i>Thelymitra magnifica</i>	1				Maida Vale	-31.9497 116.0164 AUTO	3	/10/1932
20729	<i>Thelymitra magnifica</i>	1	Erect, single stemmed annual with brown-yellow flowers, to 17 cm high. Full/late flowering stage.	NW slope. Dry, grey granitic clay. Area burnt summer 1997.	Small scattered marri with <i>Hakea incrassata</i> , <i>Xanthorrhoea preissii</i> , <i>Allocasuarina humilis</i> , <i>sedge</i> sp., <i>Pimelea imbricata</i> , <i>Nemcia acuta</i> .	Darling Range Regional Park, Kalamunda Shire: found on hill crests and slopes between Whistlepipe Gully and Lesmurdie Falls National Park,	-31.9904 116.0298 GPS	1	2/11/1999
20729	<i>Thelymitra magnifica</i>	1		Slope - flat. Dry, yellow-brown sand-loam-clay. Laterite-boudler-granite. Burnt in 1997v and Pop.4B 2002/3 summer.	(Muir's) Scattered Marri. <i>Acacia pulchella</i> , <i>Stylidium brunonium</i> , <i>Leucopogon pulchellus</i> , <i>Verticordia acerosa</i> , <i>Xanthorrhoea preissii</i> , <i>Nemcia acuta</i> .	Darling Range Regional Park, Kalamunda Block. Palm Terrace Walk Trail, 450 m W of the gate at Ashurst Road. Mostly W-SW and S of trail, Forrestfield	-31.9913 116.0316 GPS	1	22/10/2003
20729	<i>Thelymitra magnifica</i>	1		Slope - flat. Dry, brown sand-loam-clay.	(Muir's) Wandoo and Marri open woodland. <i>Xanthorrhoea preissii</i> , <i>Patersonia occidentalis</i> , <i>Hakea lissocarpa</i> , <i>Calothamnus</i> sp., <i>Acacia pulchella</i> , <i>Hypocalymma angustifolium</i> .	Darling Range Regional Park, Gooseberry Hill block, Gooseberry Hill, take Watsonia Road for ca 200 m N of Gooseberry Hill Road then the walk trail E for 150 m, S side of the walk trail	-31.9498 116.0344 GPS	1	28/10/2003
20729	<i>Thelymitra magnifica</i>	1	Sturdy, erect orchid, 0.25 m high, scented flowers reddish-brown with gold markings and green reverse, anther bright orange.	Gentle slope at foot of Darling Scarp in reserve which was once a gravel pit, on lateritic gravel. Burnt March 2004.	Regrowth open Jarrah-Marri woodland with <i>Hakea trifurcata</i> , <i>Xanthorrhoea preissii</i> , <i>Calothamnus sanguineus</i> , <i>Hibbertia hypericoides</i> and fringing <i>Dryandra sessilis</i> thicket. Shrubs in early regrowth, <i>Drosera</i> spp., <i>Stylidium</i> spp., sedges, orchids, <i>Haemodorum</i> s	Norwood Reserve (Kalamunda Reserve 22502), off Norwood Road, Maida Vale. 3.8 km WNW of Kalamunda	-31.9602 116.0228 GPS	1	23/10/2004
10862	<i>Thelymitra stellata</i>	T				Maida Vale	-31.9497 116.0164 AUTO	3	//
1717	<i>Thelymitra variegata</i>	T				Helena River	-31.9181 116.0331 AUTO	3	/08/1903
32658	<i>Trithuria occidentalis</i>	T				Midland Junction	-31.8997 116 AUTO	3	16/11/1898
32658	<i>Trithuria occidentalis</i>	T		Muddy spots.		Midland Junction	-31.8997 116 AUTO	3	/09/1901
14714	<i>Verticordia lindleyi</i> subsp. <i>lindleyi</i>	4	Fine shrub, 0.5 m by 0.2 m, flowers pink/mauve.	Seasonal Wetland, flat ground, sand with little clay, over ?clay, poor drainage, wet during winter/spring.	Heath B, Associated species: <i>Pericalymma ellipticum</i> , <i>Melaleuca</i> sp.B, <i>Banksia telmatiaea</i> .	System 6 Area M52, Perth Airport Bushland (Bush Forever Site 386), E side in security fenced Airport land, in System 6 Update quadrat perth05	-31.9393 115.981 GPS	1	20/10/1994
14714	<i>Verticordia lindleyi</i> subsp. <i>lindleyi</i>	4	Shrub.	Flat. Grey sand.	Woodland. <i>Corymbia calophylla</i> , <i>Banksia attenuata</i> , <i>Banksia menziesii</i> , <i>Melaleuca preissiana</i> , <i>Xanthorrhoea preissii</i> , <i>Hypocalymma angustifolium</i> , <i>Adenanthos obovatus</i> , <i>Regelia ciliata</i> , <i>Jacksonia furcellata</i> .	Perth Airport	-31.9572 115.9778 GPS	1	22/08/2002
14714	<i>Verticordia lindleyi</i> subsp. <i>lindleyi</i>	4	Erect shrub.	Low plain on flat area.	<i>Melaleuca preissiana</i> , <i>Xanthorrhoea preissii</i> , <i>Desmocladius flexuosus</i> , <i>Jacksonia furcellata</i> , <i>Lyginia barbata</i> , <i>Pericalymma ellipticum</i> , <i>Hypocalymma angustifolium</i> , <i>Eucalyptus linearis</i> , <i>Melaleuca seriata</i> , <i>Dryandra lindleyana</i> and <i>Patersonia occidentalis</i> .	Healthy popula Perth Airport region	-31.9641 115.9728 GPS	1	21/02/2007
14714	<i>Verticordia lindleyi</i> subsp. <i>lindleyi</i>	4	Erect shrub.	Low plain on flat area.	<i>Melaleuca preissiana</i> , <i>Xanthorrhoea preissii</i> , <i>Desmocladius flexuosus</i> , <i>Jacksonia furcellata</i> , <i>Lyginia barbata</i> , <i>Pericalymma ellipticum</i> , <i>Hypocalymma angustifolium</i> , <i>Eucalyptus linearis</i> , <i>Melaleuca seriata</i> , <i>Dryandra lindleyana</i> and <i>Patersonia occidentalis</i> .	Healthy popula Perth Airport region	-31.9641 115.9728 GPS	1	21/02/2007
14714	<i>Verticordia lindleyi</i> subsp. <i>lindleyi</i>	4	Shrub. 60 cm high x 30 cm wide. Flowers pinkish-mauve. Flower-spikes fairly sparse on ends of branches.	Yellow sandy loam in low-lying area, wet in winter.	<i>Patersonia occidentalis</i> , <i>Melaleuca seriata</i> , <i>Cytogonidium leptocarpoides</i> , <i>Drosera menziesii</i> , <i>Phlebocarya ciliata</i> , <i>Dampiera linearis</i> , <i>Gladiolus caryophyllaceus</i> , <i>Philothea spicata</i> , <i>Hypocalymma angustifolium</i> , <i>Xanthorrhoea gracilis</i> , <i>Alexgeorgea nitens</i> .	Perth Airport	-31.9641 115.9728 GPS	1	5/09/2007
14714	<i>Verticordia lindleyi</i> subsp. <i>lindleyi</i>	4			With <i>V. densiflora</i> .	Maida Vale	-31.9497 116.0164 AUTO	3	14/12/1979

NatureMap Species Report

Created By 360 Environmental on 29/11/2017

Current Names Only Yes
Core Datasets Only Yes
Method 'By Circle'
Centre 116° 00' 54" E, 31° 56' 39" S
Buffer 10km
Group By Kingdom

Kingdom	Species	Records
Animalia	630	54273
Fungi	69	167
Plantae	1761	12530
Protozoa	6	7
TOTAL	2466	66977

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Animalia				
1.	? ?			
2.	24260 <i>Acanthiza apicalis</i> (Broad-tailed Thornbill, Inland Thornbill)			
3.	24261 <i>Acanthiza chrysorrhoa</i> (Yellow-rumped Thornbill)			
4.	24262 <i>Acanthiza inornata</i> (Western Thornbill)			
5.	24265 <i>Acanthiza uropygialis</i> (Chestnut-rumped Thornbill)			
6.	25242 <i>Acanthophis antarcticus</i> (Southern Death Adder)		P3	
7.	24560 <i>Acanthorhynchus superciliosus</i> (Western Spinebill)			
8.	<i>Acariformes</i> sp.			
9.	25535 <i>Accipiter cirrocephalus</i> (Collared Sparrowhawk)			
10.	24281 <i>Accipiter cirrocephalus</i> subsp. <i>cirrocephalus</i> (Collared Sparrowhawk)			
11.	25536 <i>Accipiter fasciatus</i> (Brown Goshawk)			
12.	24283 <i>Accipiter fasciatus</i> subsp. <i>didimus</i> (Brown Goshawk)			
13.	24282 <i>Accipiter fasciatus</i> subsp. <i>fasciatus</i> (Brown Goshawk)			
14.	<i>Acentrogobius bifrenatus</i>			
15.	25751 <i>Acridotheres tristis</i> (Common Myna)	Y		
16.	42368 <i>Acritoscincus trilineatus</i> (Western Three-lined Skink)			
17.	<i>Acroaspis olorina</i>			Y
18.	25755 <i>Acrocephalus australis</i> (Australian Reed Warbler)			
19.	41323 <i>Actitis hypoleucos</i> (Common Sandpiper)		IA	
20.	25544 <i>Aegotheles cristatus</i> (Australian Owlet-nightjar)			
21.	24301 <i>Aegotheles cristatus</i> subsp. <i>cristatus</i> (Australian Owlet-nightjar)			
22.	<i>Aganippe cupulifex</i>			Y
23.	<i>Aganippe raphiduca</i>			
24.	<i>Akamptogonus novarae</i>			
25.	<i>Aldrichetta forsteri</i>			
26.	<i>Allothereua maculata</i>			
27.	<i>Ambicodamus kochi</i>			
28.	<i>Amblyomma albolimbatum</i>			
29.	<i>Amblyomma fimbriatum</i>			
30.	<i>Amblyomma triguttatum</i>			
31.	<i>Amniataba caudavittata</i>			
32.	<i>Aname mainae</i>			
33.	<i>Aname tepperi</i>			
34.	24310 <i>Anas castanea</i> (Chestnut Teal)			
35.	24312 <i>Anas gracilis</i> (Grey Teal)			
36.	24313 <i>Anas platyrhynchos</i> (Mallard)			
37.	24315 <i>Anas rhynchotis</i> (Australasian Shoveler)			
38.	24316 <i>Anas superciliosa</i> (Pacific Black Duck)			
39.	47414 <i>Anhinga novaehollandiae</i> (Australasian Darter)			
40.	<i>Anoplocapros lenticularis</i>			
41.	24506 <i>Anous tenuirostris</i> subsp. <i>melanops</i> (Australian Lesser Noddy)		T	
42.	<i>Anser anser</i>			
43.	25319 <i>Antaresia stimsoni</i> subsp. <i>orientalis</i> (Stimson's Python)			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
44.	25241 <i>Antaresia stimsoni</i> subsp. <i>stimsoni</i> (Stimson's Python)			
45.	25449 <i>Antechinus flavipes</i> (Yellow-footed Antechinus)			
46.	24088 <i>Antechinus flavipes</i> subsp. <i>leucogaster</i> (Yellow-footed Antechinus, Mardo)			
47.	24561 <i>Anthochaera carunculata</i> (Red Wattlebird)			
48.	24562 <i>Anthochaera lunulata</i> (Western Little Wattlebird)			
49.	25670 <i>Anthus australis</i> (Australian Pipit)			
50.	<i>Apogon victoriae</i>			
51.	24990 <i>Aprasia pulchella</i> (Granite Worm-lizard)			
52.	24991 <i>Aprasia repens</i> (Sand-plain Worm-lizard)			
53.	25554 <i>Apus pacificus</i> (Fork-tailed Swift, Pacific Swift)		IA	
54.	24285 <i>Aquila audax</i> (Wedge-tailed Eagle)			
55.	<i>Aracana aurita</i>			
56.	<i>Arachnura higginsii</i>			
57.	<i>Araneus cyphoxis</i>			
58.	<i>Araneus eburniventris</i>			
59.	<i>Araneus eburnus</i>			
60.	<i>Araneus ginninderranus</i>			
61.	<i>Araneus senicaudatus</i>			
62.	<i>Araneus talipedatus</i>			
63.	25558 <i>Ardea ibis</i> (Cattle Egret)		IA	
64.	41324 <i>Ardea modesta</i> (great egret, white egret)		IA	
65.	24340 <i>Ardea novaehollandiae</i> (White-faced Heron)			
66.	24341 <i>Ardea pacifica</i> (White-necked Heron)			
67.	<i>Argiope protensa</i>			
68.	<i>Argiope trifasciata</i>			
69.	25566 <i>Artamus cinereus</i> (Black-faced Woodswallow)			
70.	24353 <i>Artamus cyanopterus</i> (Dusky Woodswallow)			
71.	24356 <i>Artamus personatus</i> (Masked Woodswallow)			
72.	<i>Artema atlanta</i>			
73.	<i>Artoria flavimana</i>			
74.	<i>Artoria linnaei</i>			
75.	<i>Artoriopsis eccentrica</i>			
76.	<i>Artoriopsis expolita</i>			
77.	<i>Artoriopsis joergi</i>			
78.	<i>Asadipus kunderang</i>			
79.	<i>Atherinosoma wallacei</i>			
80.	<i>Austracantha minax</i>			
81.	<i>Australomimetus aurioculatus</i>			
82.	<i>Australomimetus ovidi</i>			
83.	<i>Austrammo harveyi</i>			
84.	33972 <i>Austromerope poultoni</i> (earwigfly (southwest), scorpionfly)		P2	
85.	24318 <i>Aythya australis</i> (Hardhead)			
86.	<i>Backobourkia brounii</i>			
87.	<i>Backobourkia heroine</i>			
88.	<i>Badumna insignis</i>			
89.	<i>Baetidae</i> sp.			
90.	<i>Baiami volucripes</i>			
91.	<i>Ballara longipalpus</i>			
92.	<i>Barnardius zonarius</i>			
93.	24162 <i>Bettongia penicillata</i> subsp. <i>ogilbyi</i> (Woylie, Brush-tailed Bettong)		T	
94.	<i>Bigenditia zuytdorp</i>			
95.	24319 <i>Biziura lobata</i> (Musk Duck)			
96.	<i>Bostockia porosa</i>			
97.	24345 <i>Botaurus poiciloptilus</i> (Australasian Bittern)		T	
98.	42380 <i>Brachyurophis fasciolatus</i> subsp. <i>fasciolatus</i> (Narrow-banded Shovel-nosed Snake)			
99.	42381 <i>Brachyurophis semifasciatus</i> (Southern Shovel-nosed Snake)			
100.	<i>Breda jovialis</i>			
101.	<i>Brentidae</i> sp.			
102.	24359 <i>Burhinus grallarius</i> (Bush Stone-curlew)			
103.	25713 <i>Cacatua galerita</i> (Sulphur-crested Cockatoo)			
104.	24721 <i>Cacatua galerita</i> subsp. <i>galerita</i> (Sulphur-crested Cockatoo)	Y		
105.	24722 <i>Cacatua leadbeateri</i> (Major Mitchell's Cockatoo)			
106.	25714 <i>Cacatua pastinator</i> (Western Long-billed Corella)			
107.	24723 <i>Cacatua pastinator</i> subsp. <i>butleri</i> (Butler's Corella)			
108.	24724 <i>Cacatua pastinator</i> subsp. <i>pastinator</i> (Muir's Corella, Muir's Corella (Western Corella SW WA))		S	
109.	25715 <i>Cacatua roseicapilla</i> (Galah)			
110.	25716 <i>Cacatua sanguinea</i> (Little Corella)			
111.	24727 <i>Cacatua sanguinea</i> subsp. <i>westralensis</i> (Little Corella)			
112.	<i>Cacatua sulphurea</i> subsp. <i>galerita</i>			Y

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
113.	24729 <i>Cacatua tenuirostris</i> (Eastern Long-billed Corella)	Y		
114.	25598 <i>Cacomantis flabelliformis</i> (Fan-tailed Cuckoo)			
115.	42307 <i>Cacomantis pallidus</i> (Pallid Cuckoo)			
116.	<i>Caenidae</i> sp.			
117.	24784 <i>Calidris ferruginea</i> (Curlew Sandpiper)		T	
118.	24786 <i>Calidris melanotos</i> (Pectoral Sandpiper)		IA	
119.	25717 <i>Calyptorhynchus banksii</i> (Red-tailed Black-Cockatoo)			
120.	24731 <i>Calyptorhynchus banksii</i> subsp. <i>naso</i> (Forest Red-tailed Black-Cockatoo)		T	
121.	24733 <i>Calyptorhynchus baudinii</i> (Baudin's Cockatoo (long-billed black-cockatoo), Baudin's Cockatoo)		T	
122.	24734 <i>Calyptorhynchus latirostris</i> (Carnaby's Cockatoo (short-billed black-cockatoo), Carnaby's Cockatoo)		T	
123.	48400 <i>Calyptorhynchus</i> sp. (white-tailed black cockatoo)		T	
124.	25454 <i>Canis lupus</i> (Dog, Dingo)	Y		
125.	30883 <i>Canis lupus</i> subsp. <i>familiaris</i> (Dog)	Y		
126.	<i>Carabidae</i> sp.			
127.	<i>Carassius auratus</i>			
128.	<i>Carcharhinus leucas</i>			
129.	25625 <i>Carduelis carduelis</i> (Goldfinch, European Goldfinch)	Y		
130.	24480 <i>Carduelis carduelis</i> subsp. <i>britannica</i> (Goldfinch)	Y		
131.	<i>Ceinidae</i> sp.			
132.	<i>Celaenia excavata</i>			
133.	<i>Ceratopogonidae</i> sp.			
134.	24086 <i>Cercartetus concinnus</i> (Western Pygmy-possum, Mundarda)			
135.	<i>Cercophonius granulatus</i>			
136.	<i>Cercophonius sulcatus</i>			
137.	<i>Ceryerda cursitans</i>			
138.	<i>Cethegus fugax</i>			
139.	24186 <i>Chalinolobus gouldii</i> (Gould's Wattled Bat)			
140.	24187 <i>Chalinolobus morio</i> (Chocolate Wattled Bat)			
141.	24377 <i>Charadrius ruficapillus</i> (Red-capped Plover)			
142.	<i>Cheilodactylus gibbosus</i>			
143.	<i>Chelmonops curiosus</i>			
144.	43380 <i>Chelodina colliei</i> (South-western Snake-necked Turtle)			
145.	24321 <i>Chenonetta jubata</i> (Australian Wood Duck, Wood Duck)			
146.	33939 <i>Cherax cainii</i> (Marron)			
147.	<i>Cherax destructor</i>			
148.	<i>Cherax quinquecarinatus</i>			
149.	<i>Chironominae</i> sp.			
150.	24980 <i>Christinus marmoratus</i> (Marbled Gecko)			
151.	<i>Chroicocephalus novaehollandiae</i>			
152.	24431 <i>Chrysococcyx basalis</i> (Horsfield's Bronze Cuckoo)			
153.	25601 <i>Chrysococcyx lucidus</i> (Shining Bronze Cuckoo)			
154.	24432 <i>Chrysococcyx lucidus</i> subsp. <i>plagosus</i> (Shining Bronze Cuckoo)			
155.	24288 <i>Circus approximans</i> (Swamp Harrier)			
156.	24774 <i>Cladorhynchus leucocephalus</i> (Banded Stilt)			
157.	<i>Clynotis severus</i>			
158.	<i>Cnidoglanis macrocephalus</i>			
159.	25675 <i>Colluricincla harmonica</i> (Grey Shrike-thrush)			
160.	24613 <i>Colluricincla harmonica</i> subsp. <i>rufiventris</i> (Grey Shrike-thrush)			
161.	24399 <i>Columba livia</i> (Domestic Pigeon)	Y		
162.	24361 <i>Coracina maxima</i> (Ground Cuckoo-shrike)			
163.	25568 <i>Coracina novaehollandiae</i> (Black-faced Cuckoo-shrike)			
164.	24362 <i>Coracina novaehollandiae</i> subsp. <i>novaehollandiae</i> (Black-faced Cuckoo-shrike)			
165.	24363 <i>Coracina novaehollandiae</i> subsp. <i>subpallida</i> (Black-faced Cuckoo-shrike)			
166.	<i>Corduliidae</i> sp.			
167.	<i>Coris auricularis</i>			
168.	<i>Corixidae</i> sp.			
169.	<i>Cormocephalus aurantiipes</i>			
170.	<i>Cormocephalus rubriceps</i>			
171.	<i>Cormocephalus strigosus</i>			
172.	<i>Cormocephalus turneri</i>			
173.	24416 <i>Corvus bennetti</i> (Little Crow)			
174.	25592 <i>Corvus coronoides</i> (Australian Raven)			
175.	24417 <i>Corvus coronoides</i> subsp. <i>perplexus</i> (Australian Raven)			
176.	24671 <i>Coturnix pectoralis</i> (Stubble Quail)			
177.	24420 <i>Cracticus nigrogularis</i> (Pied Butcherbird)			
178.	25595 <i>Cracticus tibicen</i> (Australian Magpie)			
179.	24422 <i>Cracticus tibicen</i> subsp. <i>dorsalis</i> (White-backed Magpie)			
180.	25596 <i>Cracticus torquatus</i> (Grey Butcherbird)			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
181.	24918 <i>Crenadactylus ocellatus</i> subsp. <i>ocellatus</i> (Clawless Gecko)			
182.	25398 <i>Crinia georgiana</i> (Quacking Frog)			
183.	25399 <i>Crinia glauerti</i> (Clicking Frog)			
184.	25400 <i>Crinia insignifera</i> (Squelching Froglet)			
185.	25401 <i>Crinia pseudinsignifera</i> (Bleating Froglet)			
186.	30893 <i>Cryptoblepharus buchananii</i>			
187.	25020 <i>Cryptoblepharus plagiocephalus</i>			
188.	<i>Cryptoerithus quobba</i>			
189.	30899 <i>Ctenophorus adelaidensis</i> (Southern Heath Dragon, Western Heath Dragon)			
190.	24883 <i>Ctenophorus ornatus</i> (Ornate Crevice-Dragon)			
191.	25027 <i>Ctenotus australis</i>			
192.	25035 <i>Ctenotus delli</i> (Dell's skink, Dell's Ctenotus)		P4	
193.	25039 <i>Ctenotus fallens</i>			
194.	25047 <i>Ctenotus impar</i>			
195.	25049 <i>Ctenotus labillardieri</i>			
196.	41641 <i>Ctenotus ora</i> (Coastal Plains Skink)		P3	
197.	<i>Curculionidae</i> sp.			
198.	<i>Cyanorhamphus auriceps</i>			Y
199.	<i>Cyclosa trilobata</i>			
200.	24322 <i>Cygnus atratus</i> (Black Swan)			
201.	<i>Cyrtophora parnasia</i>			
202.	30901 <i>Dacelo novaeguineae</i> (Laughing Kookaburra)	Y		
203.	30902 <i>Dacelo novaeguineae</i> subsp. <i>novaeguineae</i> (Laughing Kookaburra)	Y		
204.	25673 <i>Daphoenositta chrysoptera</i> (Varied Sittella)			
205.	24606 <i>Daphoenositta chrysoptera</i> subsp. <i>pileata</i> (Varied Sittella, Black-capped Sittella)			
206.	24092 <i>Dasyurus geoffroi</i> (Chuditch, Western Quoll)		T	
207.	<i>Delena cancerides</i>			
208.	25766 <i>Delma fraseri</i> (Fraser's Legless Lizard)			
209.	24999 <i>Delma grayii</i>			
210.	25296 <i>Demansia psammophis</i> subsp. <i>reticulata</i> (Yellow-faced Whipsnake)			
211.	25325 <i>Dendrelaphis punctulata</i> (Green Tree Snake)			
212.	24325 <i>Dendrocygna eytoni</i> (Plumed Whistling Duck)			
213.	25607 <i>Dicaeum hirundinaceum</i> (Mistletoebird)			
214.	<i>Dingosa murata</i>			
215.	<i>Dingosa serrata</i>			
216.	<i>Dinocambala ingens</i>			
217.	<i>Diodon nichthemerus</i>			
218.	24929 <i>Diplodactylus granariensis</i> subsp. <i>granariensis</i>			
219.	24939 <i>Diplodactylus polyophthalmus</i>			
220.	24940 <i>Diplodactylus pulcher</i>			
221.	24470 <i>Dromaius novaehollandiae</i> (Emu)			
222.	<i>Dugesiiidae</i> sp.			
223.	<i>Dytiscidae</i> sp.			
224.	25251 <i>Echiopsis curta</i> (Bardick)			
225.	25096 <i>Egernia kingii</i> (King's Skink)			
226.	25100 <i>Egernia napoleonis</i>			
227.	<i>Egretta garzetta</i>			
228.	<i>Egretta novaehollandiae</i>			
229.	<i>Elanus axillaris</i>			
230.	24290 <i>Elanus caeruleus</i> subsp. <i>axillaris</i> (Australian Black-shouldered Kite)			
231.	25250 <i>Elapognathus coronatus</i> (Crowned Snake)			
232.	47937 <i>Eiseyornis melanops</i> (Black-fronted Dotterel)			
233.	<i>Engraulis australis</i>			
234.	<i>Enoplosus armatus</i>			
235.	<i>Eodelena lapidicola</i>			
236.	<i>Eolophus roseicapillus</i>			
237.	24651 <i>Eopsaltria australis</i> subsp. <i>griseocularis</i> (Western Yellow Robin)			
238.	24652 <i>Eopsaltria georgiana</i> (White-breasted Robin)			
239.	<i>Epinephelides armatus</i>			
240.	24567 <i>Epthianura albifrons</i> (White-fronted Chat)			
241.	24258 <i>Equus caballus</i> (Horse)	Y		
242.	25109 <i>Eremiascincus richardsonii</i> (Broad-banded Sand Swimmer)			
243.	<i>Erigone prominens</i>			
244.	<i>Eriophora biapicata</i>			
245.	<i>Eriophora pustulosa</i>			
246.	24379 <i>Erythronys cinctus</i> (Red-kneed Dotterel)			
247.	<i>Eucyrtops latior</i>			
248.	<i>Eupograptus kottae</i>			
249.	25621 <i>Falco berigora</i> (Brown Falcon)			
250.	24471 <i>Falco berigora</i> subsp. <i>berigora</i> (Brown Falcon)			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
251.	25622 <i>Falco cenchroides</i> (Australian Kestrel, Nankeen Kestrel)			
252.	24472 <i>Falco cenchroides</i> subsp. <i>cenchroides</i> (Australian Kestrel, Nankeen Kestrel)			
253.	25623 <i>Falco longipennis</i> (Australian Hobby)			
254.	24474 <i>Falco longipennis</i> subsp. <i>longipennis</i> (Australian Hobby)			
255.	25624 <i>Falco peregrinus</i> (Peregrine Falcon)		S	
256.	<i>Favonigobius</i> sp.			
257.	24041 <i>Felis catus</i> (Cat)	Y		
258.	25727 <i>Fulica atra</i> (Eurasian Coot)			
259.	24761 <i>Fulica atra</i> subsp. <i>australis</i> (Eurasian Coot)			
260.	30916 <i>Funambulus pennanti</i> (Indian Palm Squirrel)	Y		
261.	34028 <i>Galaxias occidentalis</i> (Western Minnow)			
262.	25729 <i>Gallinula tenebrosa</i> (Dusky Moorhen)			
263.	24763 <i>Gallinula tenebrosa</i> subsp. <i>tenebrosa</i> (Dusky Moorhen)			
264.	25730 <i>Gallirallus philippensis</i> (Buff-banded Rail)			
265.	<i>Gallus gallus</i>			
266.	<i>Gea theridioides</i>			
267.	24959 <i>Gehyra variegata</i>			
268.	25404 <i>Geococcyx leai</i> (Ticking Frog)			
269.	24401 <i>Geopelia cuneata</i> (Diamond Dove)			
270.	34030 <i>Geotria australis</i> (Pouched Lamprey)		P1	
271.	<i>Gerres subfasciatus</i>			
272.	25530 <i>Gerygone fusca</i> (Western Gerygone)			
273.	24271 <i>Gerygone fusca</i> subsp. <i>fusca</i> (Western Gerygone)			
274.	<i>Glossiphoniidae</i> sp.			
275.	30918 <i>Glossopsitta concinna</i> (Musk Lorikeet)	Y		
276.	47962 <i>Glyciphila melanops</i> (Tawny-crowned Honeyeater)			
277.	<i>Gomphidae</i> sp.			
278.	<i>Gracula religiosa</i>			
279.	24443 <i>Grallina cyanoleuca</i> (Magpie-lark)			
280.	<i>Gripopterygidae</i> sp.			
281.	<i>Gymnapistes marmoratus</i>			
282.	24487 <i>Haematopus longirostris</i> (Pied Oystercatcher)			
283.	24295 <i>Haliastur sphenurus</i> (Whistling Kite)			
284.	24689 <i>Halobaena caerulea</i> (Blue Petrel)			
285.	24296 <i>Hamirostra isura</i> (Square-tailed Kite)			
286.	<i>Hebridae</i> sp.			
287.	25408 <i>Heleioporus albopunctatus</i> (Western Spotted Frog)			
288.	25409 <i>Heleioporus barycragus</i> (Hooting Frog)			
289.	25410 <i>Heleioporus eyrei</i> (Moaning Frog)			
290.	25412 <i>Heleioporus psammophilus</i> (Sand Frog)			
291.	<i>Hemicloea</i> sp.			Y
292.	<i>Hemicloea sublimbata</i>			
293.	<i>Hemicorduliidae</i> sp.			
294.	25232 <i>Hemidactylus frenatus</i> (Asian House Gecko)	Y		
295.	25115 <i>Hemiergis initialis</i> subsp. <i>initialis</i>			
296.	25475 <i>Hemiergis peronii</i>			
297.	25119 <i>Hemiergis quadrilineata</i>			
298.	24961 <i>Heteronotia binoei</i> (Bynoe's Gecko)			
299.	<i>Heurodes turritus</i>			
300.	47965 <i>Hieraaetus morphnoides</i> (Little Eagle)			
301.	25734 <i>Himantopus himantopus</i> (Black-winged Stilt)			
302.	24491 <i>Hirundo neoxena</i> (Welcome Swallow)			
303.	<i>Hoggicosa storri</i>			
304.	<i>Hogna crispipes</i>			
305.	<i>Hogna immansueta</i>			
306.	<i>Hogna kuyani</i>			
307.	<i>Holasteron perth</i>			
308.	<i>Holasteron wamuseum</i>			Y
309.	<i>Holconia westralia</i>			
310.	24215 <i>Hydromys chrysogaster</i> (Water-rat, Rakali)		P4	
311.	<i>Hydrophiliidae</i> sp.			
312.	<i>Hydroprogne caspia</i>			
313.	<i>Hydroptilidae</i> sp.			
314.	<i>Hypoblemum</i> sp.			Y
315.	<i>Idiommata blackwalli</i>			
316.	<i>Isometroides vesicus</i>			
317.	25478 <i>Isoodon obesulus</i> (Southern Brown Bandicoot)		P4	
318.	24153 <i>Isoodon obesulus</i> subsp. <i>fusciventer</i> (Quenda, Southern Brown Bandicoot)		P4	
319.	<i>Isopeda leishmanni</i>			
320.	<i>Isopeda magna</i>			

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321.	<i>Isopedella cana</i>			
322.	<i>Isopedella tindalei</i>			
323.	47975 <i>Ixobrychus dubius</i> (Australian Little Bittern)		P4	
324.	24347 <i>Ixobrychus flavicollis</i> subsp. <i>australis</i> (black bittern (southwest), Australian Black Bittern)		P1	
325.	<i>Karaops ellенае</i>			
326.	<i>Karaops jarrit</i>			
327.	24367 <i>Lalage tricolor</i> (White-winged Triller)			
328.	<i>Lampona cylindrata</i>			
329.	<i>Lampona yanchep</i>			
330.	<i>Lamponella ainslie</i>			
331.	24511 <i>Larus novaehollandiae</i> subsp. <i>novaehollandiae</i> (Silver Gull)			
332.	<i>Latrodectus hasselti</i>			
333.	<i>Latrodectus hasseltii</i>			
334.	33981 <i>Leioproctus bilobatus</i> (short-tongued bee)		P2	
335.	<i>Leptoceridae</i> sp.			
336.	<i>Leptophlebiidae</i> sp.			
337.	25131 <i>Lerista distinguenda</i>			
338.	25133 <i>Lerista elegans</i>			
339.	25147 <i>Lerista lineata</i> (Perth Slider, Lined Skink)		P3	
340.	25148 <i>Lerista lineopunctulata</i>			
341.	25165 <i>Lerista praepedita</i>			
342.	25005 <i>Lialis burtonis</i>			
343.	<i>Libellulidae</i> sp.			
344.	25659 <i>Lichenostomus leucotis</i> (White-eared Honeyeater)			
345.	25661 <i>Lichmera indistincta</i> (Brown Honeyeater)			
346.	24582 <i>Lichmera indistincta</i> subsp. <i>indistincta</i> (Brown Honeyeater)			
347.	25415 <i>Limnodynastes dorsalis</i> (Western Banjo Frog)			
348.	25378 <i>Litoria adelaidensis</i> (Slender Tree Frog)			
349.	25388 <i>Litoria moorei</i> (Motorbike Frog)			
350.	<i>Longepi woodman</i>			
351.	<i>Lophochroa leadbeateri</i>			
352.	<i>Lophoicthia isura</i>			
353.	<i>Lycidas chlorophthalmus</i>			
354.	<i>Lycidas michaelsoni</i>			
355.	<i>Lycosa ariadnae</i>			
356.	<i>Lycosa godeffroyi</i>			
357.	<i>Lycosa leuckartii</i>			
358.	<i>Lymnaeidae</i> sp.			
359.	24132 <i>Macropus fuliginosus</i> (Western Grey Kangaroo)			
360.	24133 <i>Macropus irma</i> (Western Brush Wallaby)		P4	
361.	24135 <i>Macropus robustus</i> subsp. <i>erubescens</i> (Euro, Biggada)			
362.	24326 <i>Malacorhynchus membranaceus</i> (Pink-eared Duck)			
363.	25650 <i>Malurus elegans</i> (Red-winged Fairy-wren)			
364.	25651 <i>Malurus lamberti</i> (Variegated Fairy-wren)			
365.	24544 <i>Malurus lamberti</i> subsp. <i>assimilis</i> (Variegated Fairy-wren)			
366.	25652 <i>Malurus leucopterus</i> (White-winged Fairy-wren)			
367.	24551 <i>Malurus pulcherimus</i> (Blue-breasted Fairy-wren)			
368.	25654 <i>Malurus splendens</i> (Splendid Fairy-wren)			
369.	24552 <i>Malurus splendens</i> subsp. <i>splendens</i> (Splendid Fairy-wren)			
370.	24583 <i>Manorina flavigula</i> (Yellow-throated Miner)			
371.	<i>Maratus pavonis</i>			
372.	<i>Masasteron maini</i>			
373.	<i>Masasteron mas</i>			
374.	25758 <i>Megalurus gramineus</i> (Little Grassbird)			
375.	47997 <i>Melanodryas cucullata</i> (Hooded Robin)			
376.	25663 <i>Melithreptus brevirostris</i> (Brown-headed Honeyeater)			
377.	24586 <i>Melithreptus brevirostris</i> subsp. <i>leucogenys</i> (Brown-headed Honeyeater)			
378.	25184 <i>Menetia greyii</i>			
379.	24598 <i>Merops ornatus</i> (Rainbow Bee-eater)		IA	
380.	<i>Microcanthus strigatus</i>			
381.	<i>Microcarbo melanoleucos</i>			
382.	25693 <i>Microeca fascinans</i> (Jacky Winter)			
383.	25542 <i>Milvus migrans</i> (Black Kite)			
384.	<i>Missulena granulosa</i>			
385.	<i>Missulena hoggi</i>			
386.	<i>Missulena occatoria</i>			
387.	<i>Mituliodon tarantulinus</i>			
388.	<i>Mitzoruga insularis</i>			
389.	25240 <i>Morelia spilota</i> subsp. <i>imbricata</i> (Carpet Python)			

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390.	25192 <i>Morethia obscura</i>			
391.	<i>Mugil cephalus</i>			
392.	24223 <i>Mus musculus</i> (House Mouse)	Y		
393.	<i>Myandra bicincta</i>			
394.	<i>Myandra cambridgei</i>			
395.	25610 <i>Myiagra inquieta</i> (Restless Flycatcher)			
396.	25420 <i>Myobatrachus gouldii</i> (Turtle Frog)			
397.	<i>Nannoperca vittata</i>			
398.	<i>Neatypus obliquus</i>			
399.	25248 <i>Neelaps bimaculatus</i> (Black-naped Snake)			
400.	25249 <i>Neelaps calonotos</i> (Black-striped Snake, black-striped burrowing snake)		P3	
401.	25426 <i>Neobatrachus pelobatoides</i> (Humming Frog)			
402.	25686 <i>Neochmia temporalis</i> (Red-browed Finch)	Y		
403.	24738 <i>Neophema elegans</i> (Elegant Parrot)			
404.	24739 <i>Neophema petrophila</i> (Rock Parrot)			
405.	<i>Neophema pulchella</i>			
406.	<i>Nephila edulis</i>			
407.	<i>Nicodamus mainae</i>			
408.	25747 <i>Ninox connivens</i> (Barking Owl)			
409.	25252 <i>Notechis scutatus</i> (Tiger Snake)			
410.	<i>Notiasemus glauerti</i>			
411.	<i>Notolabus parilus</i>			
412.	<i>Notsodipus muckera</i>			
413.	<i>Novakiella trituberculosa</i>			
414.	<i>Nunciella aspera</i>			
415.	25564 <i>Nycticorax caledonicus</i> (Rufous Night Heron)			
416.	24194 <i>Nyctophilus geoffroyi</i> (Lesser Long-eared Bat)			
417.	<i>Occiperipatoides gilesii</i>			
418.	<i>Ocrisiona leucocomis</i>			
419.	24407 <i>Ocyphaps lophotes</i> (Crested Pigeon)			
420.	<i>Oecobius navus</i>			
421.	<i>Oligochaeta</i> sp.			
422.	<i>Ommatoiulus moreleti</i>			
423.	<i>Ommatoiulus moreletii</i>			
424.	<i>Oniscidae</i> sp.			
425.	<i>Opopaea</i> sp.			Y
426.	<i>Orphnaeus breviliatus</i>			
427.	<i>Orthocladinae</i> sp.			
428.	24085 <i>Oryctolagus cuniculus</i> (Rabbit)	Y		
429.	<i>Ostearius melanopygius</i>			
430.	34016 <i>Ovis aries</i> (Sheep)			
431.	<i>Oxidus gracilis</i>			
432.	<i>Oxyopes gracilipes</i>			
433.	<i>Oxyopes punctatus</i>			
434.	24328 <i>Oxyura australis</i> (Blue-billed Duck)		P4	
435.	25680 <i>Pachycephala rufiventris</i> (Rufous Whistler)			
436.	24624 <i>Pachycephala rufiventris</i> subsp. <i>rufiventris</i> (Rufous Whistler)			
437.	<i>Palaemonidae</i> sp.			
438.	<i>Pandion cristatus</i>			
439.	25543 <i>Pandion haliaetus</i> (Osprey)		IA	
440.	<i>Papillogobius punctatus</i>			
441.	<i>Paralampona marangaroo</i>			
442.	<i>Paramelitidae</i> sp.			
443.	25253 <i>Parasuta gouldii</i>			
444.	25255 <i>Parasuta nigriceps</i>			
445.	25681 <i>Pardalotus punctatus</i> (Spotted Pardalote)			
446.	24625 <i>Pardalotus punctatus</i> subsp. <i>punctatus</i> (Spotted Pardalote)			
447.	24626 <i>Pardalotus punctatus</i> subsp. <i>xanthopyge</i> (Yellow-rumped Pardalote)			
448.	24627 <i>Pardalotus rubricatus</i> (Red-browed Pardalote)			
449.	25682 <i>Pardalotus striatus</i> (Striated Pardalote)			
450.	24628 <i>Pardalotus striatus</i> subsp. <i>murchisoni</i> (Striated Pardalote)			
451.	24630 <i>Pardalotus striatus</i> subsp. <i>westraliensis</i> (Striated Pardalote)			
452.	<i>Parma microlepis</i>			
453.	25687 <i>Passer domesticus</i> (House Sparrow)	Y		
454.	<i>Pediana occidentalis</i>			
455.	24648 <i>Pelecanus conspicillatus</i> (Australian Pelican)			
456.	<i>Pempheris klunzingeri</i>			
457.	<i>Pentasteron securifer</i>			
458.	48060 <i>Petrochelidon ariel</i> (Fairy Martin)			
459.	48061 <i>Petrochelidon nigricans</i> (Tree Martin)			

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460.	48066 <i>Petroica boodang</i> (Scarlet Robin)			
461.	24659 <i>Petroica goodenovii</i> (Red-capped Robin)			
462.	25697 <i>Phalacrocorax carbo</i> (Great Cormorant)			
463.	25698 <i>Phalacrocorax melanoleucos</i> (Little Pied Cormorant)			
464.	24667 <i>Phalacrocorax sulcirostris</i> (Little Black Cormorant)			
465.	25699 <i>Phalacrocorax varius</i> (Pied Cormorant)			
466.	<i>Phalacrocorax varius</i> (Pied Cormorant)			
467.	24409 <i>Phaps chalcoptera</i> (Common Bronzewing)			
468.	25587 <i>Phaps elegans</i> (Brush Bronzewing)			
469.	48070 <i>Phascogale tapoatafa</i> subsp. <i>wambenger</i> (South-western Brush-tailed Phascogale, Wambenger)		T	
470.	<i>Phenasteron longiconductor</i>			
471.	<i>Pholcus phalangioides</i>			
472.	<i>Phreatoicidae</i> sp.			
473.	<i>Phryganoporus candidus</i>			
474.	<i>Phryganoporus gausapatus</i> subsp. <i>occidentalis</i>			Y
475.	48071 <i>Phylidonyris niger</i> (White-cheeked Honeyeater)			
476.	24596 <i>Phylidonyris novaehollandiae</i> (New Holland Honeyeater)			
477.	<i>Physidae</i> sp.			
478.	<i>Pinkfloydia harveii</i>			
479.	<i>Planorbidae</i> sp.			
480.	24841 <i>Platalea flavipes</i> (Yellow-billed Spoonbill)			
481.	24842 <i>Platalea regia</i> (Royal Spoonbill)			
482.	<i>Platax teira</i>			
483.	<i>Platycercus elegans</i>			
484.	25720 <i>Platycercus icterotis</i> (Western Rosella)			
485.	24747 <i>Platycercus spurius</i> (Red-capped Parrot)			
486.	25721 <i>Platycercus zonarius</i> (Australian Ringneck, Ring-necked Parrot)			
487.	24750 <i>Platycercus zonarius</i> subsp. <i>semitorquatus</i> (Twenty-eight Parrot)			
488.	24843 <i>Plegadis falcinellus</i> (Glossy Ibis)		IA	
489.	25007 <i>Pletholax gracilis</i> subsp. <i>gracilis</i> (Keeled Legless Lizard)			
490.	<i>Plotosus unicolor</i>			Y
491.	25703 <i>Podargus strigoides</i> (Tawny Frogmouth)			
492.	24679 <i>Podargus strigoides</i> subsp. <i>brachypterus</i> (Tawny Frogmouth)			
493.	25704 <i>Podiceps cristatus</i> (Great Crested Grebe)			
494.	24680 <i>Podiceps cristatus</i> subsp. <i>australis</i> (Great Crested Grebe)			
495.	25510 <i>Pogona minor</i> (Dwarf Bearded Dragon)			
496.	24907 <i>Pogona minor</i> subsp. <i>minor</i> (Dwarf Bearded Dragon)			
497.	24681 <i>Poliocephalus poliocephalus</i> (Hoary-headed Grebe)			
498.	25722 <i>Polytelis anthopeplus</i> (Regent Parrot)			
499.	30854 <i>Polytelis anthopeplus</i> subsp. <i>westralis</i> (Regent Parrot)			
500.	24683 <i>Pomatostomus superciliosus</i> (White-browed Babbler)			
501.	25731 <i>Porphyrio porphyrio</i> (Purple Swamphen)			
502.	24767 <i>Porphyrio porphyrio</i> subsp. <i>bellus</i> (Purple Swamphen)			
503.	24769 <i>Porzana fluminea</i> (Australian Spotted Crane)			
504.	25732 <i>Porzana pusilla</i> (Baillon's Crane)			
505.	24770 <i>Porzana pusilla</i> subsp. <i>palustris</i> (Baillon's Crane)			
506.	24771 <i>Porzana tabuensis</i> (Spotless Crane)			
507.	25261 <i>Pseudechis australis</i> (Mulga Snake)			
508.	25345 <i>Pseudemys umbrina</i> (Western Swamp Tortoise, Western Swamp Turtle)		T	
509.	<i>Pseudocaranx dentex</i>			
510.	24166 <i>Pseudocheirus occidentalis</i> (Western Ringtail Possum, ngwayir)		T	
511.	24234 <i>Pseudomys delicatulus</i> (Delicate Mouse)			
512.	25511 <i>Pseudonaja affinis</i> (Dugite)			
513.	25259 <i>Pseudonaja affinis</i> subsp. <i>affinis</i> (Dugite)			
514.	42416 <i>Pseudonaja mengdeni</i> (Western Brown Snake)			
515.	25264 <i>Pseudonaja nuchalis</i> (Gwardar, Northern Brown Snake)			
516.	25433 <i>Pseudophryne guentheri</i> (Crawling Toadlet)			
517.	24702 <i>Pterodroma brevirostris</i> (Kerguelen Petrel)			
518.	<i>Purpureicephalus spurius</i>			
519.	25008 <i>Pygopus lepidopodus</i> (Common Scaly Foot)			
520.	24243 <i>Rattus fuscipes</i> (Western Bush Rat)			
521.	24245 <i>Rattus rattus</i> (Black Rat)	Y		
522.	<i>Raveniella cirrata</i>			
523.	<i>Raveniella peckorum</i>			
524.	24776 <i>Recurvirostra novaehollandiae</i> (Red-necked Avocet)			
525.	<i>Rhabdosargus sarba</i>			
526.	48096 <i>Rhipidura albiscapa</i> (Grey Fantail)			
527.	25614 <i>Rhipidura leucophrys</i> (Willie Wagtail)			
528.	24454 <i>Rhipidura leucophrys</i> subsp. <i>leucophrys</i> (Willie Wagtail)			

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529.	<i>Richardsonianidae</i> sp.			
530.	<i>Sandalodes joannae</i>			
531.	<i>Sandalodes superbus</i>			
532.	<i>Scirtidae</i> sp.			
533.	<i>Scolopendra laeta</i>			
534.	<i>Scorpius aequipinnis</i>			
535.	<i>Scorpius georgianus</i>			
536.	24199 <i>Scotorepens balstoni</i> (Inland Broad-nosed Bat)			
537.	<i>Scytodes thoracica</i>			
538.	25534 <i>Sericornis frontalis</i> (White-browed Scrubwren)			
539.	<i>Serinus canarius</i>			
540.	<i>Servaea melaina</i>			
541.	<i>Servaea spinibarbis</i>			
542.	24145 <i>Setonix brachyurus</i> (Quokka)		T	
543.	25266 <i>Simoselaps bertholdi</i> (Jan's Banded Snake)			
544.	<i>Simuliidae</i> sp.			
545.	<i>Smeringopus natalensis</i>			
546.	<i>Smeringopus natalensis?</i>			Y
547.	30948 <i>Smicronis brevirostris</i> (Weebill)			
548.	24645 <i>Stagonopleura oculata</i> (Red-eared Firetail)			
549.	<i>Steatoda capensis</i>			
550.	<i>Steatoda grossa</i>			
551.	24523 <i>Sterna caspia</i> (Caspian Tern)		IA	
552.	24525 <i>Sterna fuscata</i> subsp. <i>nubilosa</i> (Sooty Tern)			
553.	24530 <i>Sterna nereis</i> subsp. <i>nereis</i> (Fairy Tern)		T	
554.	24329 <i>Stictonetta naevosa</i> (Freckled Duck)			
555.	25655 <i>Stipiturus malachurus</i> (Southern Emu-wren)			
556.	<i>Storena formosa</i>			
557.	<i>Storena sinuosa</i>			
558.	25597 <i>Strepera versicolor</i> (Grey Currawong)			
559.	24426 <i>Strepera versicolor</i> subsp. <i>plumbea</i> (Grey Currawong)			
560.	25589 <i>Streptopelia chinensis</i> (Spotted Turtle-Dove)	Y		
561.	30951 <i>Streptopelia chinensis</i> subsp. <i>tigrina</i> (Spotted Turtle-Dove)	Y		
562.	25590 <i>Streptopelia senegalensis</i> (Laughing Turtle-Dove)	Y		
563.	30950 <i>Streptopelia senegalensis</i> subsp. <i>senegalensis</i> (Laughing Turtle-Dove)	Y		
564.	24943 <i>Strophurus spinigerus</i> subsp. <i>inornatus</i>			
565.	24942 <i>Strophurus spinigerus</i> subsp. <i>spinigerus</i>			
566.	<i>Styloniscidae</i> sp.			
567.	<i>Supunna funerea</i>			
568.	24259 <i>Sus scrofa</i> (Pig)	Y		
569.	<i>Synothele durokoppin</i>			
570.	<i>Synothele michaelseni</i>			
571.	<i>Synsphyronus magnus</i>			
572.	25705 <i>Tachybaptus novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
573.	24682 <i>Tachybaptus novaehollandiae</i> subsp. <i>novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
574.	24207 <i>Tachyglossus aculeatus</i> (Short-beaked Echidna)			
575.	24331 <i>Tadorna tadornoides</i> (Australian Shelduck, Mountain Duck)			
576.	<i>Talitridae</i> sp.			
577.	<i>Tamopsis darlingtoniana</i>			
578.	<i>Tamopsis perthensis</i>			
579.	<i>Tanypodinae</i> sp.			
580.	24167 <i>Tarsipes rostratus</i> (Honey Possum, Noolbenger)			
581.	<i>Tasmanicosa leuckartii</i>			
582.	<i>Tegenaria atrica</i>			Y
583.	<i>Tetragnatha demissa</i>			
584.	<i>Tetragnatha luteocincta</i>			Y
585.	<i>Thalasseus bergii</i>			
586.	<i>Threpterus maculosus</i>			
587.	24845 <i>Threskiornis spinicollis</i> (Straw-necked Ibis)			
588.	25203 <i>Tiliqua occipitalis</i> (Western Bluetongue)			
589.	25519 <i>Tiliqua rugosa</i>			
590.	25204 <i>Tiliqua rugosa</i> subsp. <i>aspera</i>			
591.	25207 <i>Tiliqua rugosa</i> subsp. <i>rugosa</i>			
592.	<i>Tilodon sexfasciatum</i>			
593.	<i>Tipulidae</i> sp.			
594.	25549 <i>Todiramphus sanctus</i> (Sacred Kingfisher)			
595.	24309 <i>Todiramphus sanctus</i> subsp. <i>sanctus</i> (Sacred Kingfisher)			
596.	<i>Trachycosmus sculptilis</i>			
597.	<i>Trachyspina mundaring</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
598.	48141 <i>Tribonyx ventralis</i> (Black-tailed Native-hen)			
599.	<i>Trichocyclus balladong</i>			
600.	<i>Trichocyclus nullarbor</i>			
601.	25723 <i>Trichoglossus haematodus</i> (Rainbow Lorikeet)			
602.	24755 <i>Trichoglossus haematodus</i> subsp. <i>moluccanus</i> (Rainbow Lorikeet)	Y		
603.	24754 <i>Trichoglossus haematodus</i> subsp. <i>rubitorquis</i> (Red-collared Lorikeet)			
604.	25521 <i>Trichosurus vulpecula</i> (Common Brushtail Possum)			
605.	24158 <i>Trichosurus vulpecula</i> subsp. <i>vulpecula</i> (Common Brushtail Possum)			
606.	24806 <i>Tringa glareola</i> (Wood Sandpiper)		IA	
607.	24808 <i>Tringa nebularia</i> (Common Greenshank, greenshank)		IA	
608.	<i>Trygonoptera ovalis</i>			
609.	48147 <i>Turnix varius</i> (Painted Button-quail)			
610.	24851 <i>Turnix velox</i> (Little Button-quail)			
611.	25762 <i>Tyto alba</i> (Barn Owl)			
612.	24852 <i>Tyto alba</i> subsp. <i>delicatula</i> (Barn Owl)			
613.	24983 <i>Underwoodisaurus milii</i> (Barking Gecko)			
614.	<i>Urodacus armatus</i>			
615.	<i>Urodacus novaehollandiae</i>			
616.	<i>Urodacus planimanus</i>			
617.	24386 <i>Vanellus tricolor</i> (Banded Lapwing)			
618.	25218 <i>Varanus gouldii</i> (Bungarra or Sand Monitor)			
619.	25225 <i>Varanus rosenbergi</i> (Heath Monitor)			
620.	25526 <i>Varanus tristis</i> (Racehorse Monitor)			
621.	<i>Venator immansueta</i>			
622.	<i>Venatrix pullastra</i>			
623.	24206 <i>Vespadelus regulus</i> (Southern Forest Bat)			
624.	24040 <i>Vulpes vulpes</i> (Red Fox)	Y		
625.	34113 <i>Westralunio carteri</i> (Carter's Freshwater Mussel)		T	
626.	<i>Westrarchaea spinosa</i>			
627.	<i>Withius piger</i>			
628.	<i>Zachria flavicoma</i>			
629.	25765 <i>Zosterops lateralis</i> (Grey-breasted White-eye, Silvereye)			
630.	unknown unknown			Y
Fungi				
631.	27574 <i>Acarospora citrina</i>			
632.	38752 <i>Agaricus campestris</i>			
633.	46334 <i>Amanita kalamundae</i> (Kalamunda Lepidella)		P3	
634.	38755 <i>Amanita ochroterrea</i>			
635.	48332 <i>Amanita preissii</i> (Cinnamon-ring Lepidella)		P3	
636.	38756 <i>Amanita umbrinella</i>			
637.	43542 <i>Amanita wadjukiorum</i>		P3	
638.	42106 <i>Austroparmelia conlabrosa</i>			
639.	<i>Boletellus obscurecoccineus</i>			
640.	<i>Boletus</i> sp.			
641.	41242 <i>Buellia homophyllia</i>			
642.	<i>Caloplaca</i> sp.			
643.	<i>Chlorophyllum brunneum</i>			
644.	27663 <i>Cladia aggregata</i>			
645.	27665 <i>Cladia ferdinandii</i>			
646.	48177 <i>Cladia muelleri</i>			
647.	27668 <i>Cladia schizopora</i>			
648.	28208 <i>Cladonia cervicornis</i> subsp. <i>verticillata</i>			
649.	27694 <i>Cladonia southlandica</i>			
650.	<i>Coltricia cinnamomea</i>			
651.	38771 <i>Coltriciella dependens</i>			
652.	<i>Cortinarius australiensis</i>			
653.	<i>Cortinarius erythraeus</i>			
654.	38874 <i>Cortinarius globuliformis</i>			
655.	38784 <i>Descomyces albus</i>			
656.	<i>Fistulina hepatica</i>			
657.	27748 <i>Flavoparmelia rutidota</i>			
658.	<i>Fomitopsis lilacinogilva</i>			
659.	38787 <i>Geastrum triplex</i>			
660.	<i>Hebeloma aminophilum</i>			
661.	29397 <i>Hertelidea pseudobotryosa</i>			Y
662.	<i>Hydnangium carneum</i>			
663.	<i>Hygrocybe astatogala</i>			Y
664.	38796 <i>Hypholoma australe</i>			
665.	27780 <i>Hypocenyomyces australis</i>			
666.	<i>Inocybe australiensis</i>			

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667.	38802 <i>Laccocephalum tumulosum</i>			
668.	<i>Lactarius clarkeae</i>			
669.	27825 <i>Lecidea ochroleuca</i>			
670.	38816 <i>Omphalotus nidiformis</i>			
671.	27905 <i>Paraporpidia glauca</i>			
672.	27906 <i>Paraporpidia leptocarpa</i>			
673.	27922 <i>Parmotrema chinense</i>			
674.	27952 <i>Pertusaria remota</i>			
675.	<i>Peziza</i> sp.			
676.	<i>Phaeotrametes decipiens</i>			
677.	<i>Phytophthora cinnamomi</i>			
678.	<i>Placoasterella baileyi</i>			
679.	38825 <i>Pluteus pauperculus</i>			
680.	27997 <i>Pseudocyphellaria neglecta</i>			
681.	28007 <i>Punctelia subalbicans</i>			
682.	45074 <i>Pyronema omphalodes</i>			
683.	38836 <i>Russula erumpens</i>			
684.	38837 <i>Russula flocktoniae</i>			
685.	<i>Schizophyllum commune</i>			
686.	38843 <i>Tapinella panuoides</i>			
687.	28071 <i>Thysanothecium scutellatum</i>			
688.	45845 <i>Tilletia viennotii</i>			
689.	44186 <i>Trapelia lilacea</i>			
690.	<i>Uromycladium tepperianum</i>			
691.	45895 <i>Ustilago avenae</i>			
692.	45896 <i>Ustilago bromivora</i>			
693.	45902 <i>Ustilago nuda</i>			
694.	45906 <i>Ustilago tepperi</i>			
695.	28105 <i>Xanthoparmelia antleriformis</i>			
696.	28123 <i>Xanthoparmelia digitiformis</i>			
697.	29032 <i>Xanthoparmelia imitatrix</i>			
698.	28156 <i>Xanthoparmelia nana</i>			
699.	28356 <i>Xanthoparmelia verrucella</i>			

Plantae

700.	19708 <i>Abutilon grandifolium</i>	Y		
701.	3207 <i>Acacia alata</i> (Winged Wattle)			
702.	15429 <i>Acacia alata</i> var. <i>alata</i>			
703.	3219 <i>Acacia anomala</i> (Grass Wattle)		T	
704.	3220 <i>Acacia aphylla</i> (Leafless Rock Wattle)		T	
705.	15466 <i>Acacia appplanata</i>			
706.	3231 <i>Acacia auronitens</i>			
707.	3233 <i>Acacia barbinervis</i>			
708.	15469 <i>Acacia barbinervis</i> subsp. <i>barbinervis</i>			
709.	17858 <i>Acacia dealbata</i>	Y		
710.	16975 <i>Acacia decurrens</i>	Y		
711.	3294 <i>Acacia dentifera</i>			
712.	3307 <i>Acacia divergens</i>			
713.	11926 <i>Acacia drewiana</i> subsp. <i>drewiana</i>			
714.	11229 <i>Acacia drummondii</i> subsp. <i>affinis</i>		P3	
715.	11192 <i>Acacia drummondii</i> subsp. <i>elegans</i>			
716.	3323 <i>Acacia ericifolia</i>			
717.	3331 <i>Acacia extensa</i> (Wiry Wattle)			
718.	3373 <i>Acacia horridula</i>		P3	
719.	3374 <i>Acacia huegelii</i>			
720.	3382 <i>Acacia incrassata</i>			
721.	18217 <i>Acacia iteaphylla</i>	Y		
722.	3409 <i>Acacia lasiocarpa</i> (Panjang)			
723.	11611 <i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>			
724.	15721 <i>Acacia lasiocarpa</i> var. <i>sedifolia</i>			
725.	18597 <i>Acacia longifolia</i> subsp. <i>sophorae</i>	Y		
726.	3442 <i>Acacia microbotrya</i> (Manna Wattle, Kalyang)			
727.	3454 <i>Acacia nervosa</i> (Rib Wattle)			
728.	3464 <i>Acacia obovata</i>			
729.	3469 <i>Acacia oncinophylla</i>			Y
730.	14129 <i>Acacia oncinophylla</i> subsp. <i>oncinophylla</i>		P3	
731.	14131 <i>Acacia oncinophylla</i> subsp. <i>patulifolia</i>		P4	
732.	3482 <i>Acacia paradoxa</i> (Kangaroo Thorn)	Y		
733.	<i>Acacia parramattensis</i>			
734.	3502 <i>Acacia pulchella</i> (Prickly Moses)			
735.	15481 <i>Acacia pulchella</i> var. <i>glaberrima</i>			

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736.	15482 <i>Acacia pulchella</i> var. <i>goadbyi</i>			
737.	15483 <i>Acacia pulchella</i> var. <i>pulchella</i>			
738.	3504 <i>Acacia pycnantha</i> (Golden Wattle)	Y		
739.	3521 <i>Acacia ridleyana</i>		P3	
740.	3527 <i>Acacia saligna</i> (Orange Wattle, Kudjong)			
741.	30033 <i>Acacia saligna</i> subsp. <i>lindleyi</i>			
742.	30034 <i>Acacia saligna</i> subsp. <i>pruinescens</i>			
743.	30032 <i>Acacia saligna</i> subsp. <i>saligna</i>			
744.	3541 <i>Acacia sessilis</i>			
745.	3557 <i>Acacia stenoptera</i> (Narrow Winged Wattle)			
746.	3574 <i>Acacia teretifolia</i>			
747.	3591 <i>Acacia urophylla</i>			
748.	3602 <i>Acacia willdenowiana</i> (Grass Wattle)			
749.	3184 <i>Acaena echinata</i> (Sheep's Burr)			
750.	1205 <i>Acanthocarpus canaliculatus</i>			
751.	6203 <i>Actinotus glomeratus</i>			
752.	6205 <i>Actinotus leucocephalus</i> (Flannel Flower)			
753.	14970 <i>Adenanthos barbiger</i>			
754.	1775 <i>Adenanthos cygnorum</i> (Common Woollybush)			
755.	11837 <i>Adenanthos cygnorum</i> subsp. <i>cygnorum</i> (Common Woollybush)			
756.	1791 <i>Adenanthos obovatus</i> (Basket Flower)			
757.	25 <i>Adiantum aethiopicum</i> (Common Maidenhair)			
758.	18396 <i>Aeonium haworthii</i>	Y		
759.	1505 <i>Agave americana</i> (Century Plant)	Y		
760.	5316 <i>Agonis flexuosa</i> (Peppermint, Wonil)			
761.	179 <i>Agrostis gigantea</i> (Redtop Bent)	Y		
762.	23474 <i>Agrostocrinum hirsutum</i>			
763.	1261 <i>Agrostocrinum scabrum</i> (Blue Grass Lily)			
764.	23501 <i>Agrostocrinum scabrum</i> subsp. <i>scabrum</i>			
765.	184 <i>Aira caryophylla</i> (Silvery Hairgrass)	Y		
766.	185 <i>Aira cupaniana</i> (Silvery Hairgrass)	Y		
767.	43820 <i>Albica flaccida</i>	Y		
768.	1056 <i>Alexgeorgea nitens</i>			
769.	1374 <i>Allium ampeloprasum</i>	Y		
770.	1377 <i>Allium porrum</i> (Leek)	Y		
771.	1728 <i>Allocasuarina fraseriana</i> (Sheoak, Kondil)			
772.	1731 <i>Allocasuarina huegeliana</i> (Rock Sheoak, Kwoil)			
773.	1732 <i>Allocasuarina humilis</i> (Dwarf Sheoak)			
774.	1734 <i>Allocasuarina microstachya</i>			
775.	1739 <i>Allocasuarina thuyoides</i> (Horned Sheoak)			
776.	17659 <i>Alocasia brisbanensis</i>	Y		
777.	190 <i>Alopecurus myosuroides</i> (Slender Foxtail)	Y		
778.	20755 <i>Alstroemeria psittacina</i>	Y		
779.	2648 <i>Alternanthera denticulata</i> (Lesser Joyweed)			
780.	2655 <i>Amaranthus albus</i> (Tumbleweed)	Y		
781.	2656 <i>Amaranthus caudatus</i> (Love Lies Bleeding)	Y		
782.	7820 <i>Ambrosia artemisiifolia</i> (Annual Ragweed, Bitterweed, Hay-feverweed, Hog-weed)	Y		
783.	6209 <i>Ammi majus</i> (Bishop's Weed)	Y		
784.	194 <i>Amphipogon amphipogonoides</i>			
785.	197 <i>Amphipogon debilis</i>			
786.	199 <i>Amphipogon strictus</i> (Greybeard Grass)			
787.	200 <i>Amphipogon turbinatus</i>			
788.	2380 <i>Amyema miquelii</i> (Stalked Mistletoe)			
789.	2383 <i>Amyema preissii</i> (Wireleaf Mistletoe)			
790.	1058 <i>Anarthria gracilis</i>			
791.	1059 <i>Anarthria humilis</i>			
792.	1060 <i>Anarthria laevis</i>			
793.	6300 <i>Andersonia aristata</i> (Rice Flower)			
794.	6309 <i>Andersonia gracilis</i>		T	
795.	6311 <i>Andersonia heterophylla</i>			
796.	6312 <i>Andersonia involucrata</i>			
797.	6314 <i>Andersonia lehmanniana</i>			
798.	11471 <i>Andersonia lehmanniana</i> subsp. <i>lehmanniana</i>			
799.	6317 <i>Andersonia micrantha</i>			
800.	7833 <i>Angianthus preissianus</i>			
801.	1406 <i>Anigozanthos bicolor</i> (Little Kangaroo Paw)			
802.	11470 <i>Anigozanthos bicolor</i> subsp. <i>bicolor</i>			
803.	1407 <i>Anigozanthos flavidus</i> (Tall Kangaroo Paw)			
804.	1409 <i>Anigozanthos humilis</i> (Catspaw)			
805.	11434 <i>Anigozanthos humilis</i> subsp. <i>humilis</i>			

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806.	1411 <i>Anigozanthos manglesii</i> (Mangles Kangaroo Paw, Kurulbrang)			
807.	11261 <i>Anigozanthos manglesii</i> subsp. <i>manglesii</i>			
808.	1416 <i>Anigozanthos viridis</i> (Green Kangaroo Paw, Kurulbardang)			
809.	11566 <i>Anigozanthos viridis</i> subsp. <i>viridis</i>			
810.	29 <i>Anogramma leptophylla</i> (Annual Fern)			
811.	11454 <i>Anthocercis anisantha</i> subsp. <i>anisantha</i>			
812.	6946 <i>Anthocercis gracilis</i> (Slender Tailflower)		T	
813.	12724 <i>Anthotium junciforme</i>			
814.	202 <i>Anthoxanthum odoratum</i> (Sweet Vernal Grass)	Y		
815.	3686 <i>Aotus cordifolia</i>			
816.	3688 <i>Aotus gracillima</i>			
817.	1116 <i>Aphelia brizula</i>			
818.	1117 <i>Aphelia cyperoides</i>			
819.	1118 <i>Aphelia drummondii</i>			
820.	43548 <i>Aphelia</i> sp. <i>Albany</i> (B.G. Briggs 596)			
821.	12040 <i>Apium prostratum</i> var. <i>prostratum</i> (Sea Celery)			
822.	141 <i>Aponogeton hexatepalus</i> (Stalked Water Ribbons)		P4	
823.	32314 <i>Archidium rehmannii</i>			
824.	7838 <i>Arctotheca calendula</i> (Cape Weed, African Marigold)	Y		
825.	207 <i>Aristida contorta</i> (Bunched Kerosene Grass)			
826.	12063 <i>Aristida holathera</i> var. <i>holathera</i>			
827.	222 <i>Aristida ramosa</i> (Purple Wiregrass)	Y		
828.	1264 <i>Arnocrinum preissii</i>			
829.	28288 <i>Artemisia arborescens</i> (Silver Wormwood)	Y		
830.	226 <i>Arundo donax</i> (Giant Reed)	Y		
831.	8779 <i>Asparagus asparagoides</i> (Bridal Creeper)	Y		
832.	1201 <i>Asparagus officinalis</i> (Asparagus)	Y		
833.	1364 <i>Asphodelus fistulosus</i> (Onion Weed)	Y		
834.	20350 <i>Astartea affinis</i> (West-coast Astartea)			
835.	20249 <i>Astartea leptophylla</i> (River-bank Astartea)			
836.	20283 <i>Astartea scoparia</i> (Common Astartea)			
837.	<i>Asterella drummondii</i>			
838.	7849 <i>Asteridea gracilis</i>		P3	
839.	7851 <i>Asteridea pulverulenta</i> (Common Bristle Daisy)			
840.	4400 <i>Asterolasia pallida</i>			
841.	6323 <i>Astroloma ciliatum</i> (Candle Cranberry)			
842.	6327 <i>Astroloma foliosum</i> (Candle Cranberry)			
843.	6330 <i>Astroloma macrocalyx</i> (Swan Berry)			
844.	6334 <i>Astroloma pallidum</i> (Kick Bush)			
845.	6336 <i>Astroloma serratifolium</i> (Kondrung)			
846.	6337 <i>Astroloma stomarrhena</i> (Red Swamp Cranberry)			
847.	6339 <i>Astroloma xerophyllum</i>			
848.	2462 <i>Atriplex hypoleuca</i>			
849.	2471 <i>Atriplex prostrata</i> (Hastate Orache)	Y		
850.	44679 <i>Auranticarpa rhombifolia</i>	Y		Y
851.	38480 <i>Austrostipa bronwenae</i>		T	
852.	17233 <i>Austrostipa campylachne</i>			
853.	17234 <i>Austrostipa compressa</i>			
854.	17237 <i>Austrostipa elegantissima</i>			
855.	17240 <i>Austrostipa flavescens</i>			
856.	17241 <i>Austrostipa hemipogon</i>			
857.	17244 <i>Austrostipa macalpinei</i>			
858.	17245 <i>Austrostipa mollis</i>			
859.	17253 <i>Austrostipa semibarbata</i>			
860.	17254 <i>Austrostipa tenuifolia</i>			
861.	17257 <i>Austrostipa variabilis</i>			
862.	231 <i>Avellinia michelii</i>	Y		
863.	233 <i>Avena barbata</i> (Bearded Oat)	Y		
864.	234 <i>Avena fatua</i> (Wild Oat)	Y		
865.	20013 <i>Axonopus fissifolius</i>	Y		
866.	42902 <i>Azolla rubra</i>			
867.	18279 <i>Babiana angustifolia</i>	Y		
868.	36441 <i>Babingtonia camphorosmae</i> (Camphor Myrtle)			
869.	45403 <i>Babingtonia pelloeae</i> (Pelloe's Babingtonia)			
870.	45402 <i>Babingtonia urbana</i> (Coastal Plain Babingtonia)		P3	
871.	1382 <i>Baeometra uniflora</i>	Y		
872.	32682 <i>Banksia armata</i> var. <i>armata</i>			
873.	1800 <i>Banksia attenuata</i> (Slender Banksia, Piara)			
874.	32678 <i>Banksia bipinnatifida</i> subsp. <i>bipinnatifida</i>			
875.	32576 <i>Banksia dallanneyi</i> (Couch Honeypot)			

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876.	32580 <i>Banksia dallanneyi</i> var. <i>dallanneyi</i>			
877.	32577 <i>Banksia dallanneyi</i> var. <i>melicula</i>			
878.	1819 <i>Banksia grandis</i> (Bull Banksia, Pulgarla)			
879.	1822 <i>Banksia ilicifolia</i> (Holly-leaved Banksia)			
880.	1823 <i>Banksia incana</i>			
881.	33399 <i>Banksia incana</i> var. <i>incana</i>			
882.	1834 <i>Banksia menziesii</i> (Firewood Banksia)			
883.	32211 <i>Banksia mimica</i> (Summer Honeypot)		T	
884.	32202 <i>Banksia nivea</i> (Honeypot Dryandra, Pudjam)			
885.	32138 <i>Banksia pteridifolia</i> subsp. <i>vernalis</i>		P3	
886.	32080 <i>Banksia sessilis</i> var. <i>sessilis</i>			
887.	32045 <i>Banksia squarrosa</i> subsp. <i>squarrosa</i>			
888.	1852 <i>Banksia telmatiaea</i> (Swamp Fox Banksia)			
889.	32031 <i>Banksia vestita</i> (Summer Dryandra)			
890.	1855 <i>Banksia victoriae</i> (Woolly Orange Banksia)			
891.	32315 <i>Barbula calycina</i>			
892.	32321 <i>Bartramia breutelii</i>			
893.	32323 <i>Bartramia pseudostricta</i>			
894.	15037 <i>Bartsia trixago</i>	Y		
895.	740 <i>Baumea arthropphylla</i>			
896.	741 <i>Baumea articulata</i> (Jointed Rush)			
897.	743 <i>Baumea juncea</i> (Bare Twigrush)			
898.	744 <i>Baumea laxa</i>			
899.	745 <i>Baumea preissii</i>			
900.	747 <i>Baumea rubiginosa</i>			
901.	748 <i>Baumea vaginalis</i> (Sheath Twigrush)			
902.	5387 <i>Beaufortia macrostemon</i> (Darling Range Beaufortia)			
903.	5390 <i>Beaufortia purpurea</i> (Purple Beaufortia)		P3	
904.	5393 <i>Beaufortia squarrosa</i> (Sand Beaufortia, Sand Bottlebrush, Puno)			
905.	4598 <i>Beyeria lechenaultii</i> (Pale Turpentine Bush)			
906.	3157 <i>Billardiera floribunda</i> (White-flowered Billardiera)			
907.	25788 <i>Billardiera fraseri</i> (Elegant Pronaya)			
908.	25798 <i>Billardiera fusiformis</i> (Australian Bluebell)			
909.	25796 <i>Billardiera heterophylla</i> (Australian Bluebell)			
910.	1417 <i>Blanca canescens</i> (Winter Bell)			
911.	749 <i>Bolboschoenus caldwellii</i> (Marsh Club-rush)			
912.	14535 <i>Bolboschoenus medianus</i>		P1	
913.	4413 <i>Boronia crenulata</i> (Aniseed Boronia)			
914.	16636 <i>Boronia crenulata</i> subsp. <i>viminea</i>			
915.	11503 <i>Boronia crenulata</i> var. <i>crenulata</i>			
916.	4414 <i>Boronia cymosa</i> (Granite Boronia)			
917.	16618 <i>Boronia humifusa</i>		P1	
918.	4432 <i>Boronia ovata</i>			
919.	17665 <i>Boronia purdieana</i> subsp. <i>purdieana</i>			
920.	4438 <i>Boronia ramosa</i>			
921.	11381 <i>Boronia ramosa</i> subsp. <i>anethifolia</i>			
922.	11564 <i>Boronia ramosa</i> subsp. <i>ramosa</i>			
923.	4444 <i>Boronia tenuis</i> (Blue Boronia)		P4	
924.	1267 <i>Borya constricta</i>			
925.	1272 <i>Borya scirpoidea</i>			
926.	1273 <i>Borya sphaerocephala</i> (Pincushions)			
927.	14396 <i>Bossiaea aquifolium</i> subsp. <i>aquifolium</i>			
928.	3710 <i>Bossiaea eriocarpa</i> (Common Brown Pea)			
929.	3714 <i>Bossiaea ornata</i> (Broad Leaved Brown Pea)			
930.	3717 <i>Bossiaea pulchella</i>			
931.	18497 <i>Bossiaea</i> sp. <i>Waroona</i> (B.J. Keighery & N. Gibson 229)			
932.	3719 <i>Bossiaea spinescens</i>			
933.	30131 <i>Brachyloma preissii</i> subsp. <i>lanceolatum</i>			
934.	8661 <i>Brachypodium distachyon</i> (False Brome)	Y		
935.	7867 <i>Brachyscome bellidioides</i>			
936.	7875 <i>Brachyscome glandulosa</i>			
937.	7878 <i>Brachyscome iberidifolia</i>			
938.	7882 <i>Brachyscome perpusilla</i>			
939.	2993 <i>Brassica fruticulosa</i> (Twiggy Turnip)	Y		
940.	2995 <i>Brassica x napus</i>	Y		
941.	244 <i>Briza maxima</i> (Blowfly Grass)	Y		
942.	245 <i>Briza minor</i> (Shivery Grass)	Y		
943.	246 <i>Bromus alopecuroides</i>	Y		
944.	248 <i>Bromus catharticus</i> (Prairie Grass)	Y		
945.	249 <i>Bromus diandrus</i> (Great Brome)	Y		

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946.	250 <i>Bromus hordeaceus</i> (Soft Brome)	Y		
947.	252 <i>Bromus madritensis</i> (Madrid Brome)	Y		
948.	253 <i>Bromus rubens</i> (Red Brome)	Y		
949.	1366 <i>Bulbine semibarbata</i> (Leek Lily)			
950.	1383 <i>Burchardia bairdiae</i>			
951.	12770 <i>Burchardia congesta</i>			
952.	1385 <i>Burchardia multiflora</i> (Dwarf Burchardia)			
953.	3178 <i>Byblis gigantea</i> (Rainbow Plant)		P3	
954.	1276 <i>Caesia micrantha</i> (Pale Grass Lily)			
955.	1277 <i>Caesia occidentalis</i>			
956.	15330 <i>Caladenia arenicola</i>			
957.	11136 <i>Caladenia denticulata</i>			
958.	44900 <i>Caladenia denticulata</i> subsp. <i>rubella</i>			
959.	1586 <i>Caladenia discoidea</i> (Dancing Orchid)			
960.	1590 <i>Caladenia ferruginea</i> (Rusty Spider Orchid)			
961.	1592 <i>Caladenia flava</i> (Cowslip Orchid)			
962.	15348 <i>Caladenia flava</i> subsp. <i>flava</i>			
963.	15502 <i>Caladenia footeana</i>			
964.	17980 <i>Caladenia hiemalis</i>			
965.	15354 <i>Caladenia hirta</i> subsp. <i>hirta</i>			
966.	1596 <i>Caladenia huegelii</i> (Grand Spider Orchid)		T	
967.	1599 <i>Caladenia latifolia</i> (Pink Fairy Orchid)			
968.	1602 <i>Caladenia longicauda</i> (Common White Spider Orchid)			
969.	15361 <i>Caladenia longicauda</i> subsp. <i>calcigena</i>			
970.	13859 <i>Caladenia longicauda</i> subsp. <i>clivicola</i>			
971.	15363 <i>Caladenia longicauda</i> subsp. <i>eminens</i>			
972.	15365 <i>Caladenia longicauda</i> subsp. <i>longicauda</i>			
973.	1603 <i>Caladenia longiclavata</i> (Clubbed Spider Orchid)			
974.	1604 <i>Caladenia macrostylis</i> (Leaping Spider Orchid)			
975.	1605 <i>Caladenia marginata</i> (White Fairy Orchid)			
976.	15503 <i>Caladenia paludosa</i>			
977.	15377 <i>Caladenia reptans</i> subsp. <i>reptans</i>			
978.	18019 <i>Caladenia vulgata</i>			
979.	2848 <i>Calandrinia corrigioloides</i> (Strap Purslane)			
980.	2854 <i>Calandrinia granulifera</i> (Pygmy Purslane)			
981.	2856 <i>Calandrinia liniflora</i> (Parakeelya)			
982.	16365 <i>Calandrinia</i> sp. <i>Kenwick</i> (G.J. Keighery 10905)			
983.	20096 <i>Calandrinia</i> sp. <i>Piawaning</i> (A.C. Beauglehole 12257)		P1	
984.	1213 <i>Calectasia cyanea</i> (Blue Tinsel Lily)		T	
985.	1214 <i>Calectasia grandiflora</i> (Blue Tinsel Lily)			
986.	19309 <i>Calectasia narragara</i>			
987.	10861 <i>Callistachys lanceolata</i> (Wonnich)			
988.	5395 <i>Callistemon phoeniceus</i> (Lesser Bottlebrush, Dubarda)			
989.	4717 <i>Callitriche stagnalis</i> (Common Starwort)	Y		
990.	36520 <i>Callitris acuminata</i> (Dwarf Cypress)			
991.	36600 <i>Callitris pyramidalis</i> (Swamp Cypress)			
992.	5396 <i>Calothamnus accedens</i>		P4	
993.	5411 <i>Calothamnus hirsutus</i>			
994.	5415 <i>Calothamnus lateralis</i>			
995.	5426 <i>Calothamnus quadrifidus</i> (One-sided Bottlebrush, Kwowdjard)			
996.	35816 <i>Calothamnus quadrifidus</i> subsp. <i>quadrifidus</i>			
997.	5428 <i>Calothamnus rupestris</i> (Mouse Ears)			
998.	5429 <i>Calothamnus sanguineus</i> (Silky-leaved Blood flower, Pindak)			
999.	5431 <i>Calothamnus torulosus</i>			
1000.	5434 <i>Calothamnus villosus</i>			
1001.	7902 <i>Calotis erinacea</i> (Tangled Burr-daisy)			
1002.	16492 <i>Calycopeplus paucifolius</i>			
1003.	5437 <i>Calytrix acutifolia</i>			
1004.	5439 <i>Calytrix angulata</i> (Yellow Starflower)			
1005.	5441 <i>Calytrix aurea</i>			
1006.	13653 <i>Calytrix breviseta</i> subsp. <i>breviseta</i>		T	
1007.	5450 <i>Calytrix depressa</i>			
1008.	5458 <i>Calytrix flavescens</i> (Summer Starflower)			
1009.	5460 <i>Calytrix fraseri</i> (Pink Summer Calytrix)			
1010.	5461 <i>Calytrix glutinosa</i>			
1011.	5465 <i>Calytrix leschenaultii</i>			
1012.	5476 <i>Calytrix sapphirina</i>			
1013.	5485 <i>Calytrix variabilis</i>			
1014.	19713 <i>Campsis radicans</i>	Y		
1015.	44535 <i>Campsis x tagliabuana</i>	Y		

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1016.	32460 <i>Campylopus acuminatus</i> var. <i>kirkii</i>			
1017.	32334 <i>Campylopus australis</i>			
1018.	32461 <i>Campylopus bicolor</i> var. <i>bicolor</i>			
1019.	32338 <i>Campylopus introflexus</i>	Y		
1020.	753 <i>Carex appressa</i> (Tall Sedge)			
1021.	756 <i>Carex inversa</i> (Knob Sedge)			
1022.	759 <i>Carex tereticaulis</i>		P3	
1023.	1162 <i>Cartonema philydroides</i>			
1024.	2951 <i>Cassytha flava</i> (Dodder Laurel)			
1025.	2952 <i>Cassytha glabella</i> (Tangled Dodder Laurel)			
1026.	11501 <i>Cassytha glabella</i> forma <i>casuarinae</i>			
1027.	11211 <i>Cassytha glabella</i> forma <i>dispar</i>			
1028.	11857 <i>Cassytha glabella</i> forma <i>glabella</i>			
1029.	2954 <i>Cassytha micrantha</i>			
1030.	2956 <i>Cassytha pomiformis</i> (Dodder Laurel)			
1031.	2957 <i>Cassytha racemosa</i> (Dodder Laurel)			
1032.	11242 <i>Cassytha racemosa</i> forma <i>pilosa</i>			
1033.	11799 <i>Cassytha racemosa</i> forma <i>racemosa</i>			
1034.	18314 <i>Casuarina cunninghamiana</i> subsp. <i>cunninghamiana</i>	Y		
1035.	18321 <i>Casuarina glauca</i>	Y		
1036.	1742 <i>Casuarina obesa</i> (Swamp Sheoak, Kuli)			
1037.	760 <i>Caustis dioica</i>			
1038.	259 <i>Cenchrus echinatus</i> (Burrgrass)	Y		
1039.	41566 <i>Cenchrus longisetus</i> (Feathertop)	Y		
1040.	41567 <i>Cenchrus macrourus</i> (African Feather Grass)	Y		
1041.	41563 <i>Cenchrus purpureus</i> (Elephant Grass)	Y		
1042.	41568 <i>Cenchrus setaceus</i> (Fountain Grass)	Y		
1043.	7916 <i>Centaurea melitensis</i> (Maltese Cockspur, Malta Thistle)	Y		
1044.	6539 <i>Centaureum erythraea</i> (Common Centaury)	Y		
1045.	6542 <i>Centaureum tenuiflorum</i>	Y		
1046.	6214 <i>Centella asiatica</i>			
1047.	7918 <i>Centipeda cunninghamii</i> (Common Sneezewood, Gukwonderuk, Old Man Weed)			
1048.	7366 <i>Centranthus macrosiphon</i>	Y		
1049.	35322 <i>Centranthus ruber</i> subsp. <i>ruber</i>	Y		
1050.	<i>Centratherum punctatum</i>			
1051.	1120 <i>Centrolepis alepyroides</i>			
1052.	1121 <i>Centrolepis aristata</i> (Pointed Centrolepis)			
1053.	1123 <i>Centrolepis caespitosa</i>		P4	
1054.	13122 <i>Centrolepis cephaloformis</i> subsp. <i>cephaloformis</i>			
1055.	1125 <i>Centrolepis drummondiana</i>			
1056.	1129 <i>Centrolepis glabra</i> (Smooth Centrolepis)			
1057.	1131 <i>Centrolepis inconspicua</i>			
1058.	1133 <i>Centrolepis pilosa</i>			
1059.	2889 <i>Cerastium glomeratum</i> (Mouse Ear Chickweed)	Y		
1060.	32462 <i>Ceratodon purpureus</i> subsp. <i>convolutus</i>			
1061.	17685 <i>Chaetanthus aristatus</i>			
1062.	18156 <i>Chamaecytisus palmensis</i> (Tagasaste)	Y		
1063.	1280 <i>Chamaescilla corymbosa</i> (Blue Squill)			
1064.	11299 <i>Chamaescilla corymbosa</i> var. <i>corymbosa</i>			
1065.	1281 <i>Chamaescilla spiralis</i>			
1066.	8788 <i>Chamaescilla versicolor</i>			
1067.	1217 <i>Chamaexeros serra</i> (Little Fringe-leaf)			
1068.	5498 <i>Chamelaucium uncinatum</i> (Geraldton Wax)			
1069.	1513 <i>Chasmanthe floribunda</i> (African Cornflag)	Y		
1070.	31 <i>Cheilanthes austrotenuifolia</i>			
1071.	34 <i>Cheilanthes distans</i> (Bristly Cloak Fern)			
1072.	12818 <i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>			
1073.	3169 <i>Cheiranthra preissiana</i>			
1074.	7925 <i>Chondrilla juncea</i> (Skeleton Weed)	Y		
1075.	17706 <i>Chordifex sinuosus</i>			
1076.	763 <i>Chorizandra enodis</i> (Black Bristlerush)			
1077.	764 <i>Chorizandra multiarticulata</i>			
1078.	8971 <i>Chorizema cordatum</i>			
1079.	3753 <i>Chorizema dicksonii</i> (Yellow-eyed Flame Pea)			
1080.	11900 <i>Chrysanthemoides monilifera</i> subsp. <i>monilifera</i>	Y		
1081.	6543 <i>Cicendia filiformis</i> (Slender Cicendia)	Y		
1082.	7935 <i>Cichorium intybus</i> (Chicory)	Y		
1083.	7937 <i>Cirsium vulgare</i> (Spear Thistle, Scotch Thistle)	Y		
1084.	2929 <i>Clematis pubescens</i> (Common Clematis)			
1085.	276 <i>Coix lacryma-jobi</i> (Job's Tears)	Y		Y

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
1086.	1044 <i>Colocasia esculenta</i> (Taro)			
1087.	32999 <i>Colocasia esculenta</i> var. <i>esculenta</i>	Y		
1088.	4550 <i>Comesperma calymega</i> (Blue-spike Milkwort)			
1089.	4551 <i>Comesperma ciliatum</i>			
1090.	4554 <i>Comesperma flavum</i>			
1091.	4560 <i>Comesperma rhadinocarpum</i> (Slender-fruited Comesperma)		P2	
1092.	4564 <i>Comesperma virgatum</i> (Milkwort)			
1093.	40864 <i>Commersonia cygnorum</i>			
1094.	1857 <i>Conospermum acerosum</i> (Needle-leaved Smokebush)			
1095.	15607 <i>Conospermum acerosum</i> subsp. <i>acerosum</i>			
1096.	15041 <i>Conospermum canaliculatum</i>			
1097.	16853 <i>Conospermum capitatum</i> subsp. <i>glabratum</i>			
1098.	1875 <i>Conospermum huegelii</i> (Slender Smokebush)			
1099.	1876 <i>Conospermum incurvum</i> (Plume Smokebush)			
1100.	1882 <i>Conospermum stoechadis</i> (Common Smokebush)			
1101.	15520 <i>Conospermum stoechadis</i> subsp. <i>sclerophyllum</i>			
1102.	15611 <i>Conospermum stoechadis</i> subsp. <i>stoechadis</i> (Common Smokebush)			
1103.	1885 <i>Conospermum triplinervium</i> (Tree Smokebush)			
1104.	13999 <i>Conospermum undulatum</i>		T	
1105.	6347 <i>Conostephium minus</i> (Pink-tipped Pearl flower)			
1106.	6348 <i>Conostephium pendulum</i> (Pearl Flower)			
1107.	6349 <i>Conostephium preissii</i>			
1108.	1418 <i>Conostylis aculeata</i> (Prickly Conostylis)			
1109.	11826 <i>Conostylis aculeata</i> subsp. <i>aculeata</i>			
1110.	11513 <i>Conostylis aculeata</i> subsp. <i>cygnorum</i>			
1111.	12109 <i>Conostylis aculeata</i> subsp. <i>preissii</i>			
1112.	1420 <i>Conostylis androstemma</i> (Trumpets)			
1113.	1423 <i>Conostylis aurea</i> (Golden Conostylis)			
1114.	11438 <i>Conostylis candicans</i> subsp. <i>candicans</i>			
1115.	1429 <i>Conostylis caricina</i>			
1116.	12035 <i>Conostylis caricina</i> subsp. <i>caricina</i>			
1117.	1434 <i>Conostylis festucea</i>			
1118.	11695 <i>Conostylis festucea</i> subsp. <i>festucea</i>			
1119.	1436 <i>Conostylis juncea</i>			
1120.	1437 <i>Conostylis latens</i>			
1121.	1454 <i>Conostylis setigera</i> (Bristly Cottonhead)			
1122.	11597 <i>Conostylis setigera</i> subsp. <i>setigera</i>			
1123.	1455 <i>Conostylis setosa</i> (White Cottonhead)			
1124.	5502 <i>Conothamnus trinervis</i>			
1125.	6614 <i>Convolvulus remotus</i>			
1126.	7939 <i>Conyza bonariensis</i> (Flaxleaf Fleabane)	Y		
1127.	<i>Conyza</i> sp.			
1128.	20074 <i>Conyza sumatrensis</i>	Y		
1129.	44528 <i>Coreopsis lanceolata</i> (Common Tickseed, Showy Tickseed, Garden Coreopsis)	Y		
1130.	2891 <i>Corrigiola litoralis</i> (Strapwort)	Y		
1131.	48259 <i>Cortaderia selloana</i> subsp. <i>selloana</i>	Y		
1132.	17104 <i>Corymbia calophylla</i> (Marri)			
1133.	1285 <i>Corynotheca micrantha</i> (Sand Lily)			
1134.	11283 <i>Corynotheca micrantha</i> var. <i>micrantha</i>			
1135.	7943 <i>Cotula australis</i> (Common Cotula)			
1136.	7945 <i>Cotula coronopifolia</i> (Waterbuttons)	Y		
1137.	7946 <i>Cotula cotuloides</i> (Smooth Cotula)			
1138.	7947 <i>Cotula turbinata</i> (Funnel Weed)	Y		
1139.	13354 <i>Craspedia variabilis</i>			
1140.	17701 <i>Crassula closiana</i>			
1141.	3137 <i>Crassula colorata</i> (Dense Stonecrop)			
1142.	11709 <i>Crassula colorata</i> var. <i>acuminata</i>			
1143.	11563 <i>Crassula colorata</i> var. <i>colorata</i>			
1144.	3138 <i>Crassula decumbens</i> (Rufous Stonecrop)			
1145.	11349 <i>Crassula decumbens</i> var. <i>decumbens</i>			
1146.	3139 <i>Crassula exserta</i>			
1147.	20271 <i>Crassula extrorsa</i>			
1148.	3142 <i>Crassula natans</i>	Y		
1149.	15706 <i>Crassula natans</i> var. <i>minus</i>	Y		
1150.	3144 <i>Crassula peduncularis</i> (Purple Stonecrop)			
1151.	18397 <i>Crassula tetragona</i> subsp. <i>robusta</i>	Y		
1152.	7953 <i>Crepis foetida</i> (Foetid Hawksbeard)	Y		
1153.	29054 <i>Crepis foetida</i> subsp. <i>foetida</i> (Stinking Hawksbeard)	Y		
1154.	19861 <i>Cristonia biloba</i>			
1155.	35838 <i>Cristonia biloba</i> subsp. <i>biloba</i>			

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1156.	17368 <i>Crotalaria agatiflora</i> subsp. <i>agatiflora</i>	Y		
1157.	4792 <i>Cryptandra arbutiflora</i> (<i>Waxy Cryptandra</i>)			
1158.	13470 <i>Cryptandra arbutiflora</i> var. <i>arbutiflora</i>			
1159.	13484 <i>Cryptandra arbutiflora</i> var. <i>tubulosa</i>			
1160.	9076 <i>Cryptandra myriantha</i>			
1161.	4804 <i>Cryptandra nutans</i>			
1162.	4809 <i>Cryptandra pungens</i>			
1163.	4810 <i>Cryptandra scoparia</i>			
1164.	7372 <i>Cucumis myriocarpus</i> (<i>Prickly Paddy Melon</i>)	Y		
1165.	11021 <i>Cuscuta planiflora</i>	Y		
1166.	1487 <i>Cyanella hyacinthoides</i>	Y		
1167.	15114 <i>Cyanicula gemmata</i>			
1168.	13826 <i>Cyanicula ixiooides</i> subsp. <i>ixiooides</i>		P4	
1169.	15404 <i>Cyanicula sericea</i>			
1170.	51 <i>Cyathaea cooperi</i>	Y		
1171.	768 <i>Cyathochaeta avenacea</i>			
1172.	769 <i>Cyathochaeta clandestina</i>			
1173.	17618 <i>Cyathochaeta equitans</i>			
1174.	40660 <i>Cycnogeton huegelii</i>			
1175.	40661 <i>Cycnogeton lineare</i>			
1176.	281 <i>Cymbopogon obtectus</i> (<i>Silkyheads</i>)			
1177.	283 <i>Cynodon dactylon</i> (<i>Couch</i>)	Y		
1178.	285 <i>Cynosurus echinatus</i> (<i>Rough Dogstail</i>)	Y		
1179.	783 <i>Cyperus congestus</i> (<i>Dense Flat-sedge</i>)	Y		
1180.	792 <i>Cyperus eragrostis</i> (<i>Umbrella Sedge</i>)	Y		
1181.	18198 <i>Cyperus papyrus</i>	Y		
1182.	806 <i>Cyperus polystachyos</i> (<i>Bunchy Sedge</i>)	Y		
1183.	815 <i>Cyperus tenellus</i> (<i>Tiny Flatsedge</i>)	Y		
1184.	816 <i>Cyperus tenuiflorus</i> (<i>Scaly Sedge</i>)	Y		
1185.	14537 <i>Cyperus vorsteri</i>	Y		Y
1186.	10916 <i>Cyrtostylis huegelii</i>			
1187.	17692 <i>Cytogonidium leptocarpoides</i>			
1188.	7420 <i>Dampiera alata</i> (<i>Winged-stem Dampiera</i>)			
1189.	7428 <i>Dampiera coronata</i> (<i>Wedge-leaved Dampiera</i>)			
1190.	7451 <i>Dampiera lavandulacea</i>			
1191.	7453 <i>Dampiera lindleyi</i>			
1192.	7454 <i>Dampiera linearis</i> (<i>Common Dampiera</i>)			
1193.	7462 <i>Dampiera pedunculata</i>			
1194.	7484 <i>Dampiera trigona</i> (<i>Angled-stem Dampiera</i>)			
1195.	5505 <i>Darwinia apiculata</i> (<i>Scarp Darwinia</i>)		T	
1196.	5508 <i>Darwinia citriodora</i> (<i>Lemon-scented Darwinia</i>)			
1197.	5523 <i>Darwinia pimelioides</i>		P4	
1198.	5531 <i>Darwinia thymoides</i>			
1199.	18193 <i>Darwinia thymoides</i> subsp. <i>thymoides</i>			
1200.	1218 <i>Dasyogon bromeliifolius</i> (<i>Pineapple Bush</i>)			
1201.	1220 <i>Dasyogon obliquifolius</i>			
1202.	6218 <i>Daucus glochidiatus</i> (<i>Australian Carrot</i>)			
1203.	3793 <i>Daviesia angulata</i>			
1204.	3799 <i>Daviesia cordata</i> (<i>Bookleaf</i>)			
1205.	3805 <i>Daviesia decurrens</i> (<i>Prickly Bitter-pea</i>)			
1206.	19747 <i>Daviesia decurrens</i> subsp. <i>decurrens</i>			
1207.	3807 <i>Daviesia divaricata</i> (<i>Marno</i>)			
1208.	18560 <i>Daviesia divaricata</i> subsp. <i>divaricata</i>			
1209.	11879 <i>Daviesia hakeoides</i> subsp. <i>hakeoides</i>			
1210.	12326 <i>Daviesia hakeoides</i> subsp. <i>subnuda</i>			
1211.	3815 <i>Daviesia horrida</i> (<i>Prickly Bitter-pea</i>)			
1212.	3819 <i>Daviesia longifolia</i>			
1213.	3824 <i>Daviesia nudiflora</i>			
1214.	16585 <i>Daviesia nudiflora</i> subsp. <i>nudiflora</i>			
1215.	3831 <i>Daviesia pedunculata</i>			
1216.	3832 <i>Daviesia physodes</i>			
1217.	3833 <i>Daviesia podophylla</i>			
1218.	3834 <i>Daviesia polyphylla</i>			
1219.	3835 <i>Daviesia preissii</i>			
1220.	3839 <i>Daviesia rhombifolia</i>			
1221.	3845 <i>Daviesia triflora</i>			
1222.	17336 <i>Dennstaedtia davallioides</i>	Y		Y
1223.	17663 <i>Desmocladius asper</i>			
1224.	17691 <i>Desmocladius fasciculatus</i>			
1225.	16595 <i>Desmocladius flexuosus</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
1226.	299 <i>Deyeuxia quadriseta</i> (Reed Bentgrass)			
1227.	1259 <i>Dianella revoluta</i> (Blueberry Lily)			
1228.	11636 <i>Dianella revoluta</i> var. <i>divaricata</i>			
1229.	306 <i>Dichelachne crinita</i> (Longhair Plumegrass)			
1230.	307 <i>Dichelachne micrantha</i> (Shorthair Plumegrass)			
1231.	1287 <i>Dichopogon capillipes</i>			
1232.	1289 <i>Dichopogon preissii</i>			
1233.	32345 <i>Didymodon australasiae</i>			
1234.	32346 <i>Didymodon torquatus</i>			
1235.	17838 <i>Dielsia stenostachya</i>			
1236.	311 <i>Digitaria ciliaris</i> (Summer Grass)	Y		
1237.	316 <i>Digitaria longiflora</i>			
1238.	320 <i>Digitaria sanguinalis</i> (Crab Grass)	Y		
1239.	1509 <i>Dioscorea hastifolia</i> (Warrine, Warram)			
1240.	4452 <i>Diplolaena andrewsii</i>		T	
1241.	9027 <i>Diplolaena drummondii</i>			
1242.	4746 <i>Diplopeltis huegelii</i>			
1243.	18589 <i>Diplopeltis huegelii</i> subsp. <i>lehmannii</i>			
1244.	3867 <i>Dipogon lignosus</i> (Dolichos Pea)	Y		
1245.	19649 <i>Disa bracteata</i>	Y		
1246.	7055 <i>Dischisma capitatum</i> (Woolly-headed Dischisma)	Y		
1247.	32347 <i>Ditrichum difficile</i>			
1248.	7961 <i>Dittrichia graveolens</i> (Stinkwort)	Y		
1249.	12943 <i>Diuris brumalis</i>			
1250.	11049 <i>Diuris corymbosa</i>			
1251.	1634 <i>Diuris laxiflora</i> (Bee Orchid)			
1252.	1635 <i>Diuris longifolia</i> (Common Donkey Orchid)			
1253.	12939 <i>Diuris magnifica</i>			
1254.	46859 <i>Diuris ostrina</i>			
1255.	15436 <i>Diuris portifolia</i>			
1256.	1637 <i>Diuris purdiei</i> (Purdie's Donkey Orchid)		T	
1257.	4757 <i>Dodonaea ceratocarpa</i>			
1258.	4761 <i>Dodonaea ericoides</i>			
1259.	4782 <i>Dodonaea viscosa</i> (Sticky Hopbush)			
1260.	15406 <i>Drakaea gracilis</i>			
1261.	11156 <i>Drakaea livida</i>			
1262.	3092 <i>Drosera bulbosa</i> (Red-leaved Sundew)			
1263.	13219 <i>Drosera bulbosa</i> subsp. <i>bulbosa</i>			
1264.	13204 <i>Drosera callistos</i>			
1265.	13218 <i>Drosera erythrogyne</i>			
1266.	3095 <i>Drosera erythrorhiza</i> (Red Ink Sundew)			
1267.	13211 <i>Drosera erythrorhiza</i> subsp. <i>collina</i>			
1268.	13217 <i>Drosera erythrorhiza</i> subsp. <i>erythrorhiza</i>			
1269.	3097 <i>Drosera gigantea</i> (Giant Sundew)			
1270.	15453 <i>Drosera gigantea</i> subsp. <i>gigantea</i>			
1271.	3098 <i>Drosera glanduligera</i> (Pimpernel Sundew)			
1272.	13195 <i>Drosera helodes</i>			
1273.	3101 <i>Drosera heterophylla</i> (Swamp Rainbow)			
1274.	13197 <i>Drosera hyperostigma</i>			
1275.	3105 <i>Drosera leucoblata</i> (Wheel Sundew)			
1276.	3106 <i>Drosera macrantha</i> (Bridal Rainbow)			
1277.	14298 <i>Drosera macrantha</i> subsp. <i>macrantha</i>			
1278.	13209 <i>Drosera marchantii</i> subsp. <i>marchantii</i>			
1279.	3109 <i>Drosera menziesii</i> (Pink Rainbow)			
1280.	11853 <i>Drosera menziesii</i> subsp. <i>menziesii</i>			
1281.	13216 <i>Drosera menziesii</i> subsp. <i>penicillaris</i>			
1282.	3110 <i>Drosera microphylla</i> (Golden Rainbow)			
1283.	15710 <i>Drosera miniata</i> (Orange Sundew)			
1284.	3114 <i>Drosera nitidula</i> (Shining Sundew)			
1285.	3115 <i>Drosera occidentalis</i> (Western Sundew)			
1286.	13191 <i>Drosera occidentalis</i> subsp. <i>occidentalis</i>		P4	
1287.	3117 <i>Drosera paleacea</i> (Dwarf Sundew)			
1288.	13188 <i>Drosera paleacea</i> subsp. <i>paleacea</i>			
1289.	3118 <i>Drosera pallida</i> (Pale Rainbow)			
1290.	3123 <i>Drosera platystigma</i> (Black-eyed Sundew)			
1291.	29178 <i>Drosera porrecta</i>			
1292.	3124 <i>Drosera pulchella</i> (Pretty Sundew)			
1293.	3125 <i>Drosera pycnoblata</i> (Pearly Sundew)			
1294.	8911 <i>Drosera rosulata</i>			
1295.	3131 <i>Drosera stolonifera</i> (Leafy Sundew)			

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1296.	3132 <i>Drosera stricticaulis</i> (Erect Sundew)			
1297.	13205 <i>Drosera tubaestylis</i>			
1298.	13184 <i>Drosera walyunga</i>			
1299.	3135 <i>Drosera zonaria</i> (Painted Sundew)			
1300.	11368 <i>Dysphania glomulifera</i> subsp. <i>glomulifera</i>			
1301.	33480 <i>Dysphania pumilio</i> (Clammy Goosefoot)			
1302.	7374 <i>Ecballium elaterium</i> (Squirting Cucumber)	Y		
1303.	32351 <i>Eccremidium pulchellum</i>			
1304.	328 <i>Echinochloa colona</i> (Awnless Barnyard Grass)	Y		
1305.	11105 <i>Echinochloa crus-galli</i>	Y		
1306.	16093 <i>Echinochloa esculenta</i>	Y		
1307.	337 <i>Echinochloa pyramidalis</i> (Antelope Grass)	Y		
1308.	6681 <i>Echium plantagineum</i> (Paterson's Curse)	Y		
1309.	8450 <i>Eclipta prostrata</i>	Y		
1310.	159 <i>Egeria densa</i> (Dense Waterweed)	Y		
1311.	347 <i>Ehrharta calycina</i> (Perennial Veldt Grass)	Y		
1312.	349 <i>Ehrharta longiflora</i> (Annual Veldt Grass)	Y		
1313.	1169 <i>Eichhornia crassipes</i> (Water Hyacinth)	Y		
1314.	5187 <i>Elatine gratioloides</i> (Waterwort)			
1315.	822 <i>Eleocharis acuta</i> (Common Spikerush)			
1316.	17605 <i>Eleocharis keigheryi</i>		T	
1317.	353 <i>Eleusine indica</i> (Crowsfoot Grass)	Y		
1318.	1643 <i>Elythranthera brunonis</i> (Purple Enamel Orchid)			
1319.	1644 <i>Elythranthera emarginata</i> (Pink Enamel Orchid)			
1320.	32353 <i>Entosthodon apophysatus</i>			
1321.	32354 <i>Entosthodon productus</i>			
1322.	1645 <i>Epiblema grandiflorum</i> (Babe-in-a-cradle)			
1323.	6132 <i>Epilobium ciliatum</i>	Y		
1324.	6133 <i>Epilobium hirtigerum</i> (Hairy Willow Herb)			
1325.	14289 <i>Epilobium tetragonum</i> subsp. <i>tetragonum</i>	Y		
1326.	374 <i>Eragrostis cilianensis</i> (Stinkgrass)	Y		
1327.	376 <i>Eragrostis curvula</i> (African Lovegrass)	Y		
1328.	379 <i>Eragrostis elongata</i> (Clustered Lovegrass)			
1329.	<i>Eragrostis</i> sp.			
1330.	13950 <i>Eremaea asterocarpa</i> subsp. <i>asterocarpa</i>			
1331.	5540 <i>Eremaea fimbriata</i>			
1332.	5541 <i>Eremaea pauciflora</i>			
1333.	14103 <i>Eremaea pauciflora</i> var. <i>calyptra</i>			
1334.	14104 <i>Eremaea pauciflora</i> var. <i>pauciflora</i>			
1335.	17150 <i>Eremophila glabra</i> subsp. <i>chlorella</i>		T	
1336.	415 <i>Eriachne ovata</i>			
1337.	45215 <i>Ericomyrtus tenuior</i>			
1338.	15412 <i>Eriochilus dilatatus</i> subsp. <i>multiflorus</i>			
1339.	15413 <i>Eriochilus dilatatus</i> subsp. <i>undulatus</i>			
1340.	15414 <i>Eriochilus helonomos</i>			
1341.	15415 <i>Eriochilus scaber</i> subsp. <i>scaber</i>			
1342.	4332 <i>Erodium botrys</i> (Long Storksbill)	Y		
1343.	4335 <i>Erodium cygnorum</i> (Blue Heronsbill)			
1344.	4336 <i>Erodium moschatum</i> (Musky Crowfoot)	Y		
1345.	6219 <i>Eryngium pinnatifidum</i> (Blue Devils)			
1346.	41801 <i>Eryngium pinnatifidum</i> subsp. <i>Palustre</i> (G.J. Keighery 13459)		P3	
1347.	15446 <i>Eryngium pinnatifidum</i> subsp. <i>pinnatifidum</i>			
1348.	41810 <i>Eryngium</i> sp. <i>Subdecumbens</i> (G.J. Keighery 5390)		P3	
1349.	18299 <i>Erythrina x sykesii</i>	Y		
1350.	5545 <i>Eucalyptus accedens</i> (Powderbark Wandoo)			
1351.	5580 <i>Eucalyptus camaldulensis</i> (River Gum, Yabalinyba)			
1352.	5615 <i>Eucalyptus decipiens</i> (Limestone Marlock, Moit)			
1353.	5688 <i>Eucalyptus laeliae</i> (Darling Range Ghost Gum)			
1354.	5708 <i>Eucalyptus marginata</i> (Jarrah, Djara)			
1355.	13547 <i>Eucalyptus marginata</i> subsp. <i>marginata</i> (Jarrah)			
1356.	13548 <i>Eucalyptus marginata</i> subsp. <i>thalassica</i> (Blue-leaved Jarrah)			
1357.	5739 <i>Eucalyptus patens</i> (Swan River Blackbutt, Dwuda)			
1358.	5763 <i>Eucalyptus rudis</i> (Flooded Gum, Kulurda)			
1359.	13511 <i>Eucalyptus rudis</i> subsp. <i>rudis</i>			
1360.	5790 <i>Eucalyptus todtiana</i> (Coastal Blackbutt)			
1361.	18085 <i>Eucalyptus utilis</i>			
1362.	5797 <i>Eucalyptus wandoo</i> (Wandoo, Wonda)			
1363.	12906 <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>			
1364.	3872 <i>Euchilopsis linearis</i> (Swamp Pea)			
1365.	15137 <i>Euchiton sphaericus</i>			

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1366.	4626 <i>Euphorbia drummondii</i> (Caustic Weed, Piwi)			
1367.	4638 <i>Euphorbia peplus</i> (Petty Spurge)	Y		
1368.	4648 <i>Euphorbia terracina</i> (Geraldton Carnation Weed)	Y		
1369.	429 <i>Eustachys distichophylla</i> (Evergreen Chloris)	Y		
1370.	3880 <i>Eutaxia virgata</i>			
1371.	430 <i>Festuca arundinacea</i> (Tall Fescue)	Y		
1372.	431 <i>Festuca pratensis</i> (Meadow Fescue)	Y		
1373.	20216 <i>Ficinia nodosa</i> (Knotted Club Rush)			
1374.	1747 <i>Ficus carica</i> (Common Fig)	Y		
1375.	894 <i>Fimbristylis velata</i>			
1376.	32367 <i>Fissidens megalotis</i>			
1377.	32368 <i>Fissidens taylorii</i>			
1378.	32469 <i>Fissidens taylorii</i> var. <i>taylorii</i>			
1379.	<i>Fossombronina altiamellosa</i>			
1380.	40241 <i>Fraxinus angustifolia</i>	Y		
1381.	18392 <i>Freesia alba</i> x <i>leichtlinii</i>	Y		
1382.	2969 <i>Fumaria capreolata</i> (Whiteflower Fumitory)	Y		
1383.	2971 <i>Fumaria muralis</i> (Wall Fumitory)	Y		
1384.	31532 <i>Fumaria muralis</i> subsp. <i>muralis</i>	Y		
1385.	32370 <i>Funaria hygrometrica</i>			
1386.	900 <i>Gahnia aristata</i>			
1387.	907 <i>Gahnia trifida</i> (Coast Saw-sedge)			
1388.	11571 <i>Galenia pubescens</i> var. <i>pubescens</i>	Y		
1389.	7321 <i>Galium divaricatum</i>	Y		
1390.	19195 <i>Gamochaeta pensylvanica</i>	Y		
1391.	434 <i>Gastroidium phleoides</i> (Nitgrass)	Y		
1392.	3887 <i>Gastrolobium acutum</i>			
1393.	3891 <i>Gastrolobium bilobum</i> (Heart Leaf Poison)			
1394.	3895 <i>Gastrolobium calycinum</i> (York Road Poison)			
1395.	20475 <i>Gastrolobium capitatum</i>			
1396.	20505 <i>Gastrolobium celsianum</i>			
1397.	20513 <i>Gastrolobium dilatatum</i>			
1398.	20473 <i>Gastrolobium ebracteolatum</i>			
1399.	3899 <i>Gastrolobium epacridoides</i>			
1400.	20483 <i>Gastrolobium linearifolium</i>			
1401.	3912 <i>Gastrolobium oxylobioides</i> (Champion Bay Poison)			
1402.	19733 <i>Gastrolobium retusum</i>			
1403.	3923 <i>Gastrolobium spathulatum</i> (Poison Bush)			
1404.	3924 <i>Gastrolobium spinosum</i> (Prickly Poison)			
1405.	3933 <i>Gastrolobium villosum</i> (Crinkle-leaved Poison)			
1406.	32374 <i>Gemmabryum cheelii</i>			
1407.	32375 <i>Gemmabryum chrysoneuron</i>			
1408.	32379 <i>Gemmabryum inaequale</i>			
1409.	32380 <i>Gemmabryum pachythecum</i>			
1410.	32381 <i>Gemmabryum preissianum</i>			
1411.	32383 <i>Gemmabryum sullivanii</i>			
1412.	3936 <i>Genista linifolia</i> (Flaxleaf Broom)	Y		
1413.	4340 <i>Geranium retrorsum</i>			
1414.	32384 <i>Gigaspermum repens</i>			
1415.	1517 <i>Gladiolus alatus</i>	Y		
1416.	1518 <i>Gladiolus angustus</i> (Long Tubed Painted Lady)	Y		
1417.	18298 <i>Gladiolus carneus</i>	Y		
1418.	1520 <i>Gladiolus caryophyllaceus</i> (Wild Gladiolus)	Y		
1419.	1524 <i>Gladiolus undulatus</i> (Wild Gladiolus)	Y		
1420.	20854 <i>Gladiolus watsonius</i>	Y		
1421.	2835 <i>Glinus lotoides</i> (Hairy Carpet Weed)			
1422.	33620 <i>Glischrocaryon angustifolium</i>			
1423.	6143 <i>Glischrocaryon aureum</i> (Common Popflower)			
1424.	8002 <i>Gnephosis tenuissima</i>			
1425.	6587 <i>Gomphocarpus fruticosus</i> (Narrowleaf Cottonbush)	Y		
1426.	11051 <i>Gomphocarpus physocarpus</i>	Y		
1427.	3945 <i>Gompholobium aristatum</i>			
1428.	10909 <i>Gompholobium confertum</i>			
1429.	3950 <i>Gompholobium knightianum</i>			
1430.	3951 <i>Gompholobium marginatum</i>			
1431.	3953 <i>Gompholobium ovatum</i>			
1432.	3954 <i>Gompholobium polymorphum</i>			
1433.	3955 <i>Gompholobium preissii</i>			
1434.	3956 <i>Gompholobium shuttleworthii</i>			
1435.	3957 <i>Gompholobium tomentosum</i> (Hairy Yellow Pea)			

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1436.	16746 <i>Gonocarpus benthamii</i> subsp. <i>benthamii</i>			
1437.	6149 <i>Gonocarpus cordiger</i>			
1438.	6159 <i>Gonocarpus nodulosus</i>			
1439.	6160 <i>Gonocarpus paniculatus</i>			
1440.	6161 <i>Gonocarpus pithyoides</i>			
1441.	8614 <i>Goodenia claytoniacea</i>			
1442.	29362 <i>Goodenia coerulea</i>			
1443.	12520 <i>Goodenia fasciculata</i>			
1444.	7517 <i>Goodenia incana</i> (Hoary <i>Goodenia</i>)			
1445.	12551 <i>Goodenia micrantha</i>			
1446.	7538 <i>Goodenia pulchella</i>			
1447.	19286 <i>Goodenia pulchella</i> subsp. Coastal Plain A (M. Hislop 634)			
1448.	19284 <i>Goodenia pulchella</i> subsp. Coastal Plain B (L.W. Sage 2336)			
1449.	13165 <i>Goodenia pusilla</i>			
1450.	26876 <i>Gracilaria verrucosa</i>			
1451.	37500 <i>Grammatotheca bergiana</i> var. <i>bergiana</i>	Y		
1452.	14282 <i>Gratiola pubescens</i>			
1453.	1964 <i>Grevillea bipinnatifida</i> (<i>Fuchsia Grevillea</i>)			
1454.	19628 <i>Grevillea bipinnatifida</i> subsp. <i>bipinnatifida</i>			
1455.	1984 <i>Grevillea curviloba</i>			
1456.	14409 <i>Grevillea curviloba</i> subsp. <i>incurva</i>		T	
1457.	13429 <i>Grevillea diversifolia</i> subsp. <i>diversifolia</i>			
1458.	1997 <i>Grevillea endlicheriana</i> (<i>Spindly Grevillea</i>)			
1459.	13451 <i>Grevillea manglesii</i> subsp. <i>dissectifolia</i>		P3	
1460.	13450 <i>Grevillea manglesii</i> subsp. <i>manglesii</i>			
1461.	2056 <i>Grevillea paniculata</i>			
1462.	2066 <i>Grevillea pilulifera</i> (<i>Woolly-flowered Grevillea</i>)			
1463.	13086 <i>Grevillea pimeleoides</i>		P4	
1464.	15839 <i>Grevillea preissii</i> subsp. <i>preissii</i>			
1465.	15990 <i>Grevillea pulchella</i> subsp. <i>ascendens</i>			
1466.	2080 <i>Grevillea quercifolia</i> (<i>Oak-leaf Grevillea</i>)			
1467.	2101 <i>Grevillea synapheae</i> (<i>Catkin Grevillea</i>)			
1468.	14421 <i>Grevillea synapheae</i> subsp. <i>synapheae</i>			
1469.	2107 <i>Grevillea thelemanniana</i> (<i>Spider Net Grevillea</i>)			
1470.	12824 <i>Grevillea vestita</i> subsp. <i>vestita</i>			
1471.	2122 <i>Grevillea wilsonii</i> (<i>Native Fuchsia</i>)			
1472.	32386 <i>Grimmia laevigata</i>			
1473.	5013 <i>Guichenotia micrantha</i> (<i>Small Flowered Guichenotia</i>)			
1474.	5014 <i>Guichenotia sarotes</i>			
1475.	1464 <i>Haemodorum brevisepalum</i>			
1476.	1465 <i>Haemodorum discolor</i>			
1477.	1468 <i>Haemodorum laxum</i>			
1478.	1469 <i>Haemodorum loratum</i>		P3	
1479.	1470 <i>Haemodorum paniculatum</i> (<i>Mardja</i>)			
1480.	1472 <i>Haemodorum simplex</i>			
1481.	1473 <i>Haemodorum simulans</i>			
1482.	<i>Haemodorum</i> sp.			
1483.	1474 <i>Haemodorum sparsiflorum</i>			
1484.	1475 <i>Haemodorum spicatum</i> (<i>Mardja</i>)			
1485.	2128 <i>Hakea amplexicaulis</i> (<i>Prickly Hakea</i>)			
1486.	2131 <i>Hakea auriculata</i>			
1487.	2136 <i>Hakea candolleana</i>			
1488.	2137 <i>Hakea ceratophylla</i> (<i>Horned Leaf Hakea</i>)			
1489.	2143 <i>Hakea conchifolia</i> (<i>Shell-leaved Hakea</i>)			
1490.	2149 <i>Hakea cristata</i> (<i>Snail Hakea</i>)			
1491.	2152 <i>Hakea cyclocarpa</i> (<i>Ramshorn</i>)			
1492.	2158 <i>Hakea erinacea</i> (<i>Hedge-hog Hakea</i>)			
1493.	2166 <i>Hakea incrassata</i> (<i>Marble Hakea</i>)			
1494.	2171 <i>Hakea laurina</i> (<i>Pincushion Hakea</i> , <i>Kodjet</i>)			
1495.	2175 <i>Hakea lissocarpha</i> (<i>Honey Bush</i>)			
1496.	2185 <i>Hakea myrtoidea</i> (<i>Myrtle Hakea</i>)			
1497.	45333 <i>Hakea neospathulata</i>			
1498.	16900 <i>Hakea petiolaris</i> subsp. <i>petiolaris</i>			
1499.	2197 <i>Hakea prostrata</i> (<i>Harsh Hakea</i>)			
1500.	2203 <i>Hakea ruscifolia</i> (<i>Candle Hakea</i>)			
1501.	31793 <i>Hakea</i> sp. Eastern coastal plain (G.J. Keighery 8014)			
1502.	2206 <i>Hakea stenocarpa</i> (<i>Narrow-fruited Hakea</i>)			
1503.	2212 <i>Hakea sulcata</i> (<i>Furrowed Hakea</i>)			
1504.	2214 <i>Hakea trifurcata</i> (<i>Two-leaf Hakea</i>)			
1505.	2215 <i>Hakea undulata</i> (<i>Wavy-leaved Hakea</i>)			

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1506.	2216 <i>Hakea varia</i> (Variable-leaved Hakea)			
1507.	6686 <i>Halgania corymbosa</i>		P3	
1508.	3961 <i>Hardenbergia comptoniana</i> (Native Wisteria)			
1509.	8008 <i>Helianthus annuus</i> (Sunflower, Common Sunflower)	Y		
1510.	8010 <i>Helianthus tuberosus</i> (Jerusalem Artichoke)	Y		
1511.	3016 <i>Heliophila pusilla</i>	Y		
1512.	439 <i>Hemarthria uncinata</i> (Matgrass)			
1513.	6836 <i>Hemiandra incana</i>			
1514.	6838 <i>Hemiandra linearis</i> (Speckled Snakebush)			
1515.	6839 <i>Hemiandra pungens</i> (Snakebush)			
1516.	33277 <i>Hemigenia argentea</i>			
1517.	6856 <i>Hemigenia incana</i> (Silky Hemigenia)			
1518.	29632 <i>Hemigenia parviflora</i>			
1519.	6871 <i>Hemigenia sericea</i> (Silky Hemigenia)			
1520.	41020 <i>Hemiphora bartlingii</i> (Woolly Dragon)			
1521.	1293 <i>Hensmania turbinata</i>			
1522.	1526 <i>Hesperantha falcata</i>	Y		
1523.	5108 <i>Hibbertia acerosa</i> (Needle Leaved Guinea Flower)			
1524.	5109 <i>Hibbertia amplexicaulis</i>			
1525.	5112 <i>Hibbertia aurea</i>			
1526.	5114 <i>Hibbertia commutata</i>			
1527.	20051 <i>Hibbertia diamesogenos</i>			
1528.	19778 <i>Hibbertia glomerata</i> subsp. <i>darlingensis</i>			
1529.	5134 <i>Hibbertia huegelii</i>			
1530.	5135 <i>Hibbertia hypericoides</i> (Yellow Buttercups)			
1531.	45534 <i>Hibbertia hypericoides</i> subsp. <i>hypericoides</i>			
1532.	5139 <i>Hibbertia lasiopus</i> (Large Hibbertia)			
1533.	5146 <i>Hibbertia montana</i>		P4	
1534.	5148 <i>Hibbertia mylnei</i>			
1535.	5150 <i>Hibbertia nymphaea</i>			
1536.	5152 <i>Hibbertia ovata</i>			
1537.	5154 <i>Hibbertia perfoliata</i>			
1538.	5155 <i>Hibbertia pilosa</i> (Hairy Guinea Flower)			
1539.	5162 <i>Hibbertia racemosa</i> (Stalked Guinea Flower)			
1540.	5169 <i>Hibbertia serrata</i> (Serrate Leaved Guinea Flower)			
1541.	<i>Hibbertia</i> sp.			
1542.	5171 <i>Hibbertia spicata</i>			
1543.	11481 <i>Hibbertia spicata</i> subsp. <i>spicata</i>			
1544.	5172 <i>Hibbertia stellaris</i> (Orange Stars)			
1545.	48381 <i>Hibbertia striata</i>			
1546.	5173 <i>Hibbertia subvaginata</i>			
1547.	4926 <i>Hibiscus diversifolius</i>	Y		Y
1548.	48241 <i>Hibiscus diversifolius</i> subsp. <i>diversifolius</i>	Y		
1549.	444 <i>Holcus lanatus</i> (Yorkshire Fog)	Y		
1550.	445 <i>Holcus setiger</i> (Annual Fog)	Y		
1551.	6222 <i>Homalosciadium homalocarpum</i>			
1552.	3964 <i>Hovea chorizemifolia</i> (Holly-leaved Hovea)			
1553.	3966 <i>Hovea pungens</i> (Devil's Pins, Puyenak)			
1554.	3968 <i>Hovea trisperma</i> (Common Hovea)			
1555.	12907 <i>Hovea trisperma</i> var. <i>grandiflora</i>			
1556.	12859 <i>Hovea trisperma</i> var. <i>trisperma</i>			
1557.	18296 <i>Humulus lupulus</i>	Y		
1558.	12741 <i>Hyalosperma cotula</i>			
1559.	12742 <i>Hyalosperma demissum</i>			
1560.	5216 <i>Hybanthus calycinus</i> (Wild Violet)			
1561.	5221 <i>Hybanthus floribundus</i>			
1562.	12007 <i>Hybanthus floribundus</i> subsp. <i>floribundus</i>			
1563.	166 <i>Hydrilla verticillata</i> (Water Thyme)			
1564.	6223 <i>Hydrocotyle alata</i>			
1565.	6226 <i>Hydrocotyle callicarpa</i> (Small Pennywort)			
1566.	6229 <i>Hydrocotyle diantha</i>			
1567.	6233 <i>Hydrocotyle lemnoides</i> (Aquatic Pennywort)		P4	
1568.	6236 <i>Hydrocotyle pilifera</i>			
1569.	11847 <i>Hydrocotyle pilifera</i> var. <i>pilifera</i>			
1570.	11074 <i>Hydrocotyle striata</i>		P1	
1571.	452 <i>Hyparrhenia hirta</i> (Tambookie Grass)	Y		
1572.	5180 <i>Hypericum gramineum</i> (Small St John's Wort)			
1573.	5817 <i>Hypocalymma angustifolium</i> (White Myrtle, Kudjid)			
1574.	35074 <i>Hypocalymma angustifolium</i> subsp. <i>Dandaragan plateau</i> (S. Patrick 702A)			
1575.	35070 <i>Hypocalymma angustifolium</i> subsp. <i>Swan Coastal Plain</i> (G.J. Keighery 16777)			

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1576.	5825 <i>Hypocalymma robustum</i> (Swan River Myrtle)			
1577.	8086 <i>Hypochoeris glabra</i> (Smooth Catsear)	Y		
1578.	9352 <i>Hypochoeris radicata</i> (Flat Weed, Cats-ear)	Y		
1579.	1070 <i>Hypolaena exsulca</i>			
1580.	17841 <i>Hypolaena pubescens</i>			
1581.	3973 <i>Indigofera colutea</i> (Sticky Indigo)			
1582.	6620 <i>Ipomoea cairica</i> (Coast Morning Glory)	Y		
1583.	6630 <i>Ipomoea indica</i> (Morning Glory)	Y		
1584.	910 <i>Isolepis cernua</i> (Nodding Club-rush)			
1585.	20200 <i>Isolepis cernua</i> var. <i>setiformis</i>			
1586.	912 <i>Isolepis cyperoides</i>			
1587.	914 <i>Isolepis hookeriana</i> (Bristle Club Rush)			
1588.	917 <i>Isolepis marginata</i> (Coarse Club-rush)			
1589.	919 <i>Isolepis oldfieldiana</i>			
1590.	10831 <i>Isolepis prolifera</i> (Budding Club-rush)	Y		
1591.	2221 <i>Isopogon asper</i>			
1592.	2227 <i>Isopogon divergens</i> (Spreading Coneflower)			
1593.	29775 <i>Isopogon drummondii</i>		P3	
1594.	2229 <i>Isopogon dubius</i> (Pincushion Coneflower)			
1595.	2237 <i>Isopogon sphaerocephalus</i> (Drumstick Isopogon)			
1596.	7396 <i>Isotoma hypocrateriformis</i> (Woodbridge Poison)			
1597.	7398 <i>Isotoma pusilla</i> (Small Isotome)			
1598.	3992 <i>Isotropis cuneifolia</i> (Granny Bonnets)			
1599.	19700 <i>Isotropis cuneifolia</i> subsp. <i>cuneifolia</i>			
1600.	1532 <i>Ixia maculata</i> (Yellow Ixia)	Y		
1601.	1533 <i>Ixia paniculata</i>	Y		
1602.	1534 <i>Ixia polystachya</i> (Variable Ixia)	Y		
1603.	<i>Jacaranda mimosifolia</i>			Y
1604.	3997 <i>Jacksonia alata</i>			
1605.	3998 <i>Jacksonia angulata</i>			
1606.	14783 <i>Jacksonia calcicola</i>			
1607.	4005 <i>Jacksonia condensata</i>			
1608.	4010 <i>Jacksonia floribunda</i> (Holly Pea)			
1609.	4012 <i>Jacksonia furcellata</i> (Grey Stinkwood)			
1610.	4018 <i>Jacksonia lehmannii</i>			
1611.	4025 <i>Jacksonia restioides</i>			
1612.	4027 <i>Jacksonia sericea</i> (Waldjumi)		P4	
1613.	4029 <i>Jacksonia sternbergiana</i> (Stinkwood, Kapur)			
1614.	1298 <i>Johnsonia pubescens</i> (Pipe Lily)			
1615.	19632 <i>Johnsonia pubescens</i> subsp. <i>pubescens</i>			
1616.	1176 <i>Juncus aridicola</i>			
1617.	1177 <i>Juncus articulatus</i> (Jointed Rush)	Y		
1618.	1178 <i>Juncus bufonius</i> (Toad Rush)	Y		
1619.	1179 <i>Juncus caespiticius</i> (Grassy Rush)			
1620.	1180 <i>Juncus capitatus</i> (Capitate Rush)	Y		
1621.	1184 <i>Juncus holoschoenus</i> (Jointleaf Rush)			
1622.	1185 <i>Juncus kraussii</i> (Sea Rush)			
1623.	11922 <i>Juncus kraussii</i> subsp. <i>australiensis</i>			
1624.	1186 <i>Juncus microcephalus</i>	Y		
1625.	1188 <i>Juncus pallidus</i> (Pale Rush)			
1626.	1189 <i>Juncus pauciflorus</i> (Loose Flower Rush)			
1627.	1190 <i>Juncus planifolius</i> (Broadleaf Rush)			
1628.	1195 <i>Juncus subsecundus</i> (Finger Rush)			
1629.	4037 <i>Kennedia coccinea</i> (Coral Vine)			
1630.	4044 <i>Kennedia prostrata</i> (Scarlet Runner)			
1631.	4045 <i>Kennedia stirlingii</i> (Bushy Kennedia)			
1632.	7067 <i>Kickxia elatine</i> (Pointed Toadflax)	Y		Y
1633.	12008 <i>Kickxia elatine</i> subsp. <i>crinita</i>	Y		
1634.	11898 <i>Kickxia elatine</i> subsp. <i>elatine</i>	Y		
1635.	7068 <i>Kickxia spuria</i> (Roundleaf Toadflax)	Y		
1636.	1221 <i>Kingia australis</i> (Kingia, Pulonok)			
1637.	5832 <i>Kunzea ericifolia</i> (Spearwood, Pondil)			
1638.	15498 <i>Kunzea glabrescens</i> (Spearwood)			
1639.	5835 <i>Kunzea micrantha</i>			
1640.	17505 <i>Kunzea praestans</i>			
1641.	5841 <i>Kunzea recurva</i>			
1642.	11289 <i>Labichea lanceolata</i> subsp. <i>lanceolata</i>			
1643.	3669 <i>Labichea punctata</i> (Lance-leaved Cassia)			
1644.	20019 <i>Lachnagrostis filiformis</i>			
1645.	19955 <i>Lachnagrostis plebeia</i>			

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1646.	29046 <i>Lactuca serriola</i> forma <i>serriola</i>	Y		
1647.	18585 <i>Lagenophora huegelii</i>			
1648.	2249 <i>Lambertia multiflora</i> (<i>Many-flowered Honeysuckle</i>)			
1649.	14083 <i>Lambertia multiflora</i> var. <i>darlingensis</i>			
1650.	28342 <i>Landoltia punctata</i> (<i>Thin Duckweed</i>)			
1651.	6733 <i>Lantana camara</i> (<i>Common Lantana</i>)	Y		
1652.	5025 <i>Lasiopetalum bracteatum</i> (<i>Helena Velvet Bush</i>)		P4	
1653.	45081 <i>Lasiopetalum glutinosum</i> subsp. <i>glutinosum</i>		P3	
1654.	4047 <i>Lathyrus tingitanus</i> (<i>Tangier Pea</i>)	Y		
1655.	38324 <i>Lavandula dentata</i> var. <i>candicans</i>	Y		
1656.	38323 <i>Lavandula stoechas</i> subsp. <i>stoechas</i>	Y		
1657.	13284 <i>Lawrencella rosea</i>			
1658.	4959 <i>Lawrenzia squamata</i>			
1659.	1303 <i>Laxmannia grandiflora</i>			
1660.	11815 <i>Laxmannia grandiflora</i> subsp. <i>grandiflora</i>			
1661.	1307 <i>Laxmannia ramosa</i> (<i>Branching Lily</i>)			
1662.	11911 <i>Laxmannia ramosa</i> subsp. <i>ramosa</i>			
1663.	1308 <i>Laxmannia sessiliflora</i> (<i>Nodding Lily</i>)			
1664.	11464 <i>Laxmannia sessiliflora</i> subsp. <i>australis</i>			
1665.	1309 <i>Laxmannia squarrosa</i>			
1666.	7568 <i>Lechenaultia biloba</i> (<i>Blue Leschenaultia</i>)			
1667.	7572 <i>Lechenaultia expansa</i>			
1668.	7574 <i>Lechenaultia floribunda</i> (<i>Free-flowering Leschenaultia</i>)			
1669.	1051 <i>Lemna disperma</i> (<i>Duckweed</i>)			
1670.	19989 <i>Lepidium didymum</i>	Y		
1671.	1075 <i>Lepidobolus preissianus</i>			
1672.	18074 <i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>			
1673.	925 <i>Lepidosperma angustatum</i>			
1674.	42741 <i>Lepidosperma apricola</i>			
1675.	41620 <i>Lepidosperma asperatum</i>			
1676.	930 <i>Lepidosperma costale</i>			
1677.	931 <i>Lepidosperma drummondii</i>			
1678.	932 <i>Lepidosperma effusum</i> (<i>Spreading Sword-sedge</i>)			
1679.	936 <i>Lepidosperma leptostachyum</i>			
1680.	937 <i>Lepidosperma longitudinale</i> (<i>Pithy Sword-sedge</i>)			
1681.	939 <i>Lepidosperma pruinatum</i>			
1682.	940 <i>Lepidosperma pubisquamatum</i>			
1683.	942 <i>Lepidosperma rostratum</i>		T	
1684.	944 <i>Lepidosperma scabrum</i>			
1685.	<i>Lepidosperma</i> sp.			
1686.	29141 <i>Lepidosperma</i> sp. <i>Gosnells (A. Markey 1145)</i>			
1687.	16284 <i>Lepidosperma</i> sp. <i>P1 small head (M.D. Tindale 166A)</i>			
1688.	945 <i>Lepidosperma squamatum</i>			
1689.	947 <i>Lepidosperma tenue</i>			
1690.	948 <i>Lepidosperma tetraquetrum</i>			
1691.	951 <i>Lepidosperma viscidum</i> (<i>Sticky Sword Sedge</i>)			
1692.	118 <i>Lepilaena australis</i> (<i>Austral Water Mat</i>)			
1693.	1653 <i>Leporella fimbriata</i> (<i>Hare Orchid</i>)			
1694.	1077 <i>Leptocarpus canus</i> (<i>Hoary Twine-rush</i>)			
1695.	1078 <i>Leptocarpus coangustatus</i>			
1696.	46375 <i>Leptocarpus decipiens</i>			
1697.	46380 <i>Leptocarpus kraussii</i>			
1698.	1080 <i>Leptocarpus scariosus</i>			
1699.	15418 <i>Leptoceras menziesii</i>			
1700.	2342 <i>Leptomeria cunninghamii</i>			
1701.	2344 <i>Leptomeria empetriformis</i>			
1702.	5847 <i>Leptospermum erubescens</i> (<i>Roadside Teatree</i>)			
1703.	5850 <i>Leptospermum laevigatum</i> (<i>Coast Teatree</i>)	Y		
1704.	5857 <i>Leptospermum spinescens</i>			
1705.	19241 <i>Lepyrodia curvescens</i>		P2	
1706.	1085 <i>Lepyrodia glauca</i>			
1707.	1088 <i>Lepyrodia macra</i> (<i>Large Scale Rush</i>)			
1708.	15562 <i>Lepyrodia riparia</i>			
1709.	6360 <i>Leucopogon australis</i> (<i>Spiked Beard-heath</i>)			
1710.	6367 <i>Leucopogon capitellatus</i>			
1711.	6374 <i>Leucopogon conostephioides</i>			
1712.	6397 <i>Leucopogon glaucifolius</i>			
1713.	6400 <i>Leucopogon gracillimus</i>			
1714.	6416 <i>Leucopogon nutans</i> (<i>Drooping Leucopogon</i>)			
1715.	6427 <i>Leucopogon parviflorus</i> (<i>Coast Beard-heath</i>)			

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1716.	6434 <i>Leucopogon polymorphus</i>			
1717.	6436 <i>Leucopogon propinquus</i>			
1718.	6439 <i>Leucopogon pulchellus</i> (Beard-heath)			
1719.	6440 <i>Leucopogon racemosus</i>			
1720.	14637 <i>Leucopogon</i> sp. <i>Coujinup</i> (M.A. Burgman 1085)			
1721.	28311 <i>Leucopogon</i> sp. <i>Great Southern</i> (R.S. Cowan A 586)			
1722.	6444 <i>Leucopogon sprengeloides</i>			
1723.	6445 <i>Leucopogon squarrosus</i>			
1724.	40803 <i>Leucopogon squarrosus</i> subsp. <i>squarrosus</i>			
1725.	6447 <i>Leucopogon strictus</i>			
1726.	6451 <i>Leucopogon tenuis</i>			
1727.	6454 <i>Leucopogon verticillatus</i> (Tassel Flower)			
1728.	7674 <i>Levenhookia preissii</i> (Preiss's Stylewort)			
1729.	7676 <i>Levenhookia pusilla</i> (Midget Stylewort)			
1730.	7677 <i>Levenhookia stipitata</i> (Common Stylewort)			
1731.	7075 <i>Linaria maroccana</i>	Y		
1732.	59 <i>Lindsaea linearis</i> (Screw Fern)			
1733.	4362 <i>Linum marginale</i> (Wild Flax)			
1734.	4363 <i>Linum trigynum</i> (French Flax)	Y		
1735.	4364 <i>Linum usitatissimum</i> (Flax)	Y		
1736.	36160 <i>Liparophyllum capitatum</i>			
1737.	36179 <i>Liparophyllum violifolium</i>			
1738.	9289 <i>Lobelia anceps</i> (Angled Lobelia)			
1739.	7402 <i>Lobelia gibbosa</i> (Tall Lobelia)			
1740.	7403 <i>Lobelia heterophylla</i> (Wing-seeded Lobelia)			
1741.	7406 <i>Lobelia rhombifolia</i> (Tufted Lobelia)			
1742.	7407 <i>Lobelia rhytidosperma</i> (Wrinkled-seeded Lobelia)			
1743.	7408 <i>Lobelia tenuior</i> (Slender Lobelia)			
1744.	3048 <i>Lobularia maritima</i> (Sweet Alyssum)	Y		
1745.	9356 <i>Logfia gallica</i>			
1746.	475 <i>Lolium multiflorum</i> (Italian Ryegrass)	Y		
1747.	478 <i>Lolium rigidum</i> (Wimmera Ryegrass)	Y		
1748.	1222 <i>Lomandra brittanii</i>			
1749.	1223 <i>Lomandra caespitosa</i> (Tufted Mat Rush)			
1750.	1228 <i>Lomandra hermaphrodita</i>			
1751.	1229 <i>Lomandra integra</i>			
1752.	1232 <i>Lomandra micrantha</i> (Small-flower Mat-rush)			
1753.	14542 <i>Lomandra micrantha</i> subsp. <i>micrantha</i>			
1754.	1234 <i>Lomandra nigricans</i>			
1755.	1236 <i>Lomandra odora</i> (Tiered Matrush)			
1756.	1239 <i>Lomandra preissii</i>			
1757.	1240 <i>Lomandra purpurea</i> (Purple Mat Rush)			
1758.	1243 <i>Lomandra sericea</i> (Silky Mat Rush)			
1759.	<i>Lomandra</i> sp.			
1760.	1245 <i>Lomandra sparteae</i>			
1761.	1246 <i>Lomandra suaveolens</i>			
1762.	7365 <i>Lonicera japonica</i> (Japanese Honeysuckle)	Y		
1763.	4059 <i>Lotus angustissimus</i> (Narrowleaf Trefoil)	Y		
1764.	8564 <i>Lotus subbiflorus</i>	Y		
1765.	4063 <i>Lotus uliginosus</i> (Greater Lotus)	Y		
1766.	15835 <i>Loxocarya striata</i>			
1767.	44680 <i>Ludwigia repens</i>	Y		
1768.	4065 <i>Lupinus angustifolius</i> (Narrowleaf Lupin)	Y		
1769.	4066 <i>Lupinus cosentinii</i>	Y		
1770.	4067 <i>Lupinus luteus</i> (Yellow Lupin)	Y		
1771.	1198 <i>Luzula meridionalis</i> (Field Woodrush)			
1772.	1097 <i>Lyginia barbata</i>			
1773.	18049 <i>Lyginia imberbis</i>			
1774.	1656 <i>Lyperanthus serratus</i> (Rattle Beak Orchid)			
1775.	2396 <i>Lysiana casuarinae</i>			
1776.	36375 <i>Lysimachia arvensis</i> (Pimpernel)	Y		
1777.	36373 <i>Lysimachia minima</i>	Y		
1778.	6456 <i>Lysinema ciliatum</i> (Curry Flower)			
1779.	34736 <i>Lysinema pentapetalum</i>			
1780.	5281 <i>Lythrum hyssopifolia</i> (Lesser Loosestrife)	Y		
1781.	2838 <i>Macarthuria apetala</i>			
1782.	2839 <i>Macarthuria australis</i>			
1783.	17106 <i>Macarthuria keigheryi</i>		T	
1784.	4070 <i>Macroptilium atropurpureum</i> (Purple Bean)	Y		
1785.	18119 <i>Macrozamia fraseri</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
1786.	85 <i>Macrozamia riedlei</i> (<i>Zamia</i> , <i>Djiridji</i>)			
1787.	4961 <i>Malva parviflora</i> (<i>Marshmallow</i>)	Y		
1788.	19421 <i>Marianthus bicolor</i> (<i>Painted Marianthus</i>)			
1789.	17637 <i>Marianthus candidus</i> (<i>White Marianthus</i>)			
1790.	17636 <i>Marianthus coeruleopunctatus</i> (<i>Blue-spotted Marianthus</i>)			
1791.	17635 <i>Marianthus drummondianus</i>			
1792.	17633 <i>Marianthus erubescens</i>			
1793.	74 <i>Marsilea drummondii</i> (<i>Common Nardoo</i>)			
1794.	4072 <i>Medicago arabica</i> (<i>Spotted Medic</i>)	Y		
1795.	4079 <i>Medicago polymorpha</i> (<i>Burr Medic</i>)	Y		
1796.	4080 <i>Medicago sativa</i> (<i>Alfalfa</i>)	Y		
1797.	20639 <i>Megathyrsus maximus</i> var. <i>maximus</i>	Y		
1798.	34676 <i>Meionectes brownii</i> (<i>Swamp Raspwort</i>)			
1799.	33638 <i>Meionectes tenuifolia</i>		P3	
1800.	37580 <i>Melaleuca acutifolia</i>			
1801.	36296 <i>Melaleuca armillaris</i> subsp. <i>armillaris</i>	Y		
1802.	5876 <i>Melaleuca aspalathoides</i>			
1803.	5881 <i>Melaleuca brevifolia</i>			
1804.	40780 <i>Melaleuca citrina</i>	Y		
1805.	5900 <i>Melaleuca cuticularis</i> (<i>Saltwater Paperbark</i>)			
1806.	5921 <i>Melaleuca incana</i> (<i>Grey Honeymyrtle</i>)			
1807.	13273 <i>Melaleuca incana</i> subsp. <i>incana</i>			
1808.	5922 <i>Melaleuca lanceolata</i> (<i>Rottnest Teatree</i> , <i>Moonah</i>)			
1809.	5926 <i>Melaleuca lateritia</i> (<i>Robin Redbreast Bush</i>)			
1810.	20297 <i>Melaleuca osullivanii</i>			
1811.	18394 <i>Melaleuca parviceps</i>			
1812.	5952 <i>Melaleuca preissiana</i> (<i>Moonah</i>)			
1813.	5958 <i>Melaleuca radula</i> (<i>Graceful Honeymyrtle</i>)			
1814.	5959 <i>Melaleuca rhapsiophylla</i> (<i>Swamp Paperbark</i>)			
1815.	5961 <i>Melaleuca scabra</i> (<i>Rough Honeymyrtle</i> , <i>Wurru Bush</i>)			
1816.	5964 <i>Melaleuca seriata</i>			
1817.	5975 <i>Melaleuca subtrigona</i>			
1818.	5978 <i>Melaleuca teretifolia</i> (<i>Banbar</i>)			
1819.	5983 <i>Melaleuca trichophylla</i>			
1820.	37683 <i>Melaleuca viminalis</i>		P2	
1821.	5987 <i>Melaleuca viminea</i> (<i>Mohan</i>)			
1822.	13280 <i>Melaleuca viminea</i> subsp. <i>viminea</i>			
1823.	4516 <i>Melia azedarach</i> (<i>White Cedar</i>)			
1824.	4085 <i>Melilotus indicus</i>	Y		
1825.	14985 <i>Melinis repens</i>	Y		
1826.	953 <i>Mesomelaena graciliceps</i>			
1827.	955 <i>Mesomelaena pseudostygia</i>			
1828.	957 <i>Mesomelaena tetragona</i> (<i>Semaphore Sedge</i>)			
1829.	6897 <i>Microcorys longifolia</i>			
1830.	485 <i>Microlaena stipoides</i> (<i>Weeping Grass</i>)			
1831.	1657 <i>Microtis alba</i> (<i>White Mignonette Orchid</i>)			
1832.	34158 <i>Microtis alboviridis</i>			
1833.	1658 <i>Microtis atrata</i> (<i>Swamp Mignonette Orchid</i>)			
1834.	12199 <i>Microtis familiaris</i>			
1835.	10954 <i>Microtis media</i> (<i>Tall Mignonette Orchid</i>)			
1836.	12761 <i>Microtis media</i> subsp. <i>densiflora</i>			
1837.	15419 <i>Microtis media</i> subsp. <i>media</i>			
1838.	8105 <i>Millotia myosotidifolia</i>			
1839.	8106 <i>Millotia tenuifolia</i> (<i>Soft Millotia</i>)			
1840.	14344 <i>Millotia tenuifolia</i> var. <i>tenuifolia</i> (<i>Soft Millotia</i>)			
1841.	4090 <i>Mirbelia dilatata</i> (<i>Holly-leaved Mirbelia</i>)			
1842.	4097 <i>Mirbelia ramulosa</i>			
1843.	4100 <i>Mirbelia spinosa</i>			
1844.	7085 <i>Misopates orontium</i> (<i>Lesser Snapdragon</i>)	Y		
1845.	7378 <i>Momordica balsamina</i> (<i>Balsam Apple</i>)	Y		
1846.	29418 <i>Monoculus monstrosus</i>	Y		
1847.	37440 <i>Monopsis debilis</i> var. <i>depressa</i>	Y		
1848.	4662 <i>Monotaxis grandiflora</i> (<i>Diamond of the Desert</i>)			
1849.	19585 <i>Monotaxis grandiflora</i> var. <i>grandiflora</i>			
1850.	4666 <i>Monotaxis occidentalis</i>			
1851.	19179 <i>Moraea flaccida</i> (<i>One-leaf Cape Tulip</i>)	Y		
1852.	19178 <i>Moraea lewisiae</i>	Y		
1853.	19180 <i>Moraea miniata</i> (<i>Two-leaf Cape Tulip</i>)	Y		
1854.	19438 <i>Moraea ochroleuca</i>	Y		
1855.	2412 <i>Muehlenbeckia adpressa</i> (<i>Climbing Lignum</i>)			

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1856.	2415 <i>Muehlenbeckia polybotrya</i>			
1857.	20774 <i>Musa acuminata</i>	Y		
1858.	7289 <i>Myoporum caprarioides</i> (Slender Myoporum)			
1859.	8114 <i>Myriocephalus appendiculatus</i> (White-tip Myriocephalus)			
1860.	14187 <i>Myriocephalus occidentalis</i>			
1861.	6185 <i>Myriophyllum aquaticum</i> (Brazilian Water Milfoil)	Y		
1862.	6189 <i>Myriophyllum crispatum</i>			
1863.	6192 <i>Myriophyllum drummondii</i>			
1864.	6193 <i>Myriophyllum echinatum</i>		P3	
1865.	6195 <i>Myriophyllum limnophilum</i>			
1866.	1495 <i>Narcissus tazetta</i> (Jonquil)	Y		
1867.	44496 <i>Narcissus tazetta</i> subsp. <i>italicus</i>	Y		
1868.	44495 <i>Narcissus tazetta</i> subsp. <i>tazetta</i>	Y		
1869.	492 <i>Neurachne alopecuroidea</i> (Foxtail Mulga Grass)			
1870.	6970 <i>Nicandra physalodes</i> (Apple of Peru)	Y		
1871.	6978 <i>Nicotiana rotundifolia</i> (Round-leaved Tobacco)			
1872.	2401 <i>Nuytsia floribunda</i> (Christmas Tree, Mudja)			
1873.	6139 <i>Oenothera glazioviana</i> (Evening Primrose)	Y		
1874.	20052 <i>Oenothera jamesii</i>	Y		
1875.	16347 <i>Oenothera laciniata</i>	Y		
1876.	6140 <i>Oenothera mollissima</i>	Y		
1877.	2365 <i>Olax benthamiana</i>			
1878.	2367 <i>Olax scalariformis</i>			
1879.	11937 <i>Olea europaea</i> subsp. <i>europaea</i>	Y		
1880.	8127 <i>Olearia axillaris</i> (Coastal Daisybush)			
1881.	8133 <i>Olearia elaeophila</i>			
1882.	8143 <i>Olearia paucidentata</i> (Autumn Scrub Daisy)			
1883.	18254 <i>Opercularia apiciflora</i>			
1884.	7346 <i>Opercularia echinocephala</i> (Bristly Headed Stink Weed)			
1885.	7348 <i>Opercularia hispidula</i> (Hispid Stinkweed)			
1886.	18255 <i>Opercularia vaginata</i> (Dog Weed)			
1887.	29276 <i>Opuntia monacantha</i> (Barbary Fig)	Y		
1888.	5227 <i>Opuntia stricta</i> (Common Prickly Pear)	Y		
1889.	46207 <i>Opuntia tomentosa</i>	Y		
1890.	46255 <i>Orianthera campanulata</i>			
1891.	46313 <i>Orianthera flaviflora</i>			
1892.	36177 <i>Ornduffia albiflora</i>			
1893.	36200 <i>Ornduffia submersa</i>		P4	
1894.	1373 <i>Ornithogalum thyrsoides</i> (Chinkerichee)	Y		
1895.	4113 <i>Ornithopus compressus</i> (Yellow Serradella)	Y		
1896.	7122 <i>Orobanche minor</i> (Lesser Broomrape)	Y		
1897.	11442 <i>Orthrosanthus laxus</i> var. <i>gramineus</i> (Grass-leaved Orthrosanthus)			
1898.	11749 <i>Orthrosanthus laxus</i> var. <i>laxus</i> (Morning Iris)			
1899.	168 <i>Ottelia ovalifolia</i> (Swamp Lily)			
1900.	4348 <i>Oxalis caprina</i>	Y		
1901.	4349 <i>Oxalis corniculata</i> (Yellow Wood Sorrel)	Y		
1902.	18331 <i>Oxalis debilis</i> var. <i>corymbosa</i> (Pink Shamrock)	Y		
1903.	30375 <i>Oxalis exilis</i>			
1904.	4352 <i>Oxalis glabra</i>	Y		
1905.	4354 <i>Oxalis incarnata</i>	Y		
1906.	4355 <i>Oxalis perennans</i>			
1907.	4356 <i>Oxalis pes-caprae</i> (Soursob)	Y		
1908.	4358 <i>Oxalis purpurea</i> (Largeflower Wood Sorrel)	Y		
1909.	502 <i>Panicum capillare</i> (Witchgrass)	Y		
1910.	2966 <i>Papaver somniferum</i> (Opium Poppy)	Y		
1911.	23500 <i>Paracaleana hortiorum</i>			
1912.	3618 <i>Paraserianthes lophantha</i> (Albizia)			
1913.	17114 <i>Paraserianthes lophantha</i> subsp. <i>lophantha</i>			
1914.	7089 <i>Parentucellia latifolia</i> (Common Bartsia)	Y		
1915.	1762 <i>Parietaria debilis</i> (Pellitory)			
1916.	3673 <i>Parkinsonia aculeata</i> (Parkinsonia)	Y		
1917.	527 <i>Paspalum dilatatum</i>	Y		
1918.	528 <i>Paspalum distichum</i> (Water Couch)	Y		
1919.	532 <i>Paspalum urvillei</i> (Vasey Grass)	Y		
1920.	5225 <i>Passiflora filamentosa</i>	Y		
1921.	1542 <i>Patersonia babianoides</i>			
1922.	1546 <i>Patersonia juncea</i> (Rush Leaved Patersonia)			
1923.	1550 <i>Patersonia occidentalis</i> (Purple Flag, Koma)			
1924.	30476 <i>Patersonia occidentalis</i> var. <i>latifolia</i>			
1925.	30472 <i>Patersonia occidentalis</i> var. <i>occidentalis</i>			

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1926.	1551 <i>Patersonia pygmaea</i> (Pygmy Patersonia)			
1927.	14433 <i>Patersonia rudis</i> subsp. <i>rudis</i>			
1928.	1553 <i>Patersonia umbrosa</i> (Yellow Flags)			
1929.	43765 <i>Pauridia glabella</i> var. <i>glabella</i>			
1930.	43760 <i>Pauridia occidentalis</i>			
1931.	43761 <i>Pauridia occidentalis</i> var. <i>occidentalis</i>			
1932.	43762 <i>Pauridia occidentalis</i> var. <i>quadriloba</i>			
1933.	43781 <i>Pauridia vaginata</i>			
1934.	10828 <i>Pavonia hastata</i>	Y		
1935.	4343 <i>Pelargonium capitatum</i> (Rose Pelargonium)	Y		
1936.	4346 <i>Pelargonium littorale</i>			
1937.	40424 <i>Pentameris airoides</i> subsp. <i>airoides</i>	Y		
1938.	40422 <i>Pentameris pallida</i>	Y		
1939.	6245 <i>Pentapeltis peltigera</i>			
1940.	16477 <i>Pericalymma ellipticum</i> var. <i>ellipticum</i>			
1941.	16478 <i>Pericalymma ellipticum</i> var. <i>floridum</i>			
1942.	13911 <i>Persicaria decipiens</i>			
1943.	16984 <i>Persicaria lapathifolia</i>	Y		
1944.	16983 <i>Persicaria maculosa</i>	Y		
1945.	2255 <i>Persoonia angustiflora</i>			
1946.	2262 <i>Persoonia elliptica</i> (Spreading Snottygobble)			
1947.	2273 <i>Persoonia saccata</i> (Snottygobble)			
1948.	2278 <i>Persoonia sulcata</i>		P4	
1949.	2284 <i>Petrophile biloba</i> (Granite Petrophile)			
1950.	20391 <i>Petrophile juncifolia</i>			
1951.	2299 <i>Petrophile linearis</i> (Pixie Mops)			
1952.	2301 <i>Petrophile macrostachya</i>			
1953.	2306 <i>Petrophile rigida</i>			
1954.	2308 <i>Petrophile seminuda</i>			
1955.	20053 <i>Petrophile squamata</i> subsp. <i>northern</i> (J. Monks 40)			
1956.	2312 <i>Petrophile striata</i>			
1957.	19825 <i>Petrorhagia dubia</i>	Y		
1958.	547 <i>Phalaris angusta</i>	Y		
1959.	548 <i>Phalaris aquatica</i> (Phalaris)	Y		
1960.	551 <i>Phalaris minor</i> (Lesser Canary Grass)	Y		
1961.	552 <i>Phalaris paradoxa</i> (Paradoxa Grass)	Y		
1962.	20460 <i>Pheladenia deformis</i>			
1963.	32409 <i>Philonotis australiensis</i>			
1964.	18529 <i>Philothea spicata</i> (Pepper and Salt)			
1965.	1172 <i>Philydrella drummondii</i>			
1966.	1173 <i>Philydrella pygmaea</i> (Butterfly Flowers)			
1967.	14306 <i>Philydrella pygmaea</i> subsp. <i>pygmaea</i>			
1968.	1478 <i>Phlebocarya ciliata</i>			
1969.	1479 <i>Phlebocarya filifolia</i>			
1970.	16825 <i>Phyllangium divergens</i>			
1971.	17366 <i>Phyllangium palustre</i>		P2	
1972.	4675 <i>Phyllanthus calycinus</i> (False Boronia)			
1973.	17794 <i>Phyllanthus tenellus</i>	Y		
1974.	4 <i>Phylloglossum drummondii</i> (Pigmy Clubmoss)			
1975.	13405 <i>Phyllopodium cordatum</i>	Y		
1976.	6983 <i>Physalis peruviana</i> (Cape Gooseberry)	Y		
1977.	2793 <i>Phytolacca octandra</i> (Red Ink Plant)	Y		
1978.	2408 <i>Pilostyles hamiltonii</i>			
1979.	5231 <i>Pimelea angustifolia</i> (Narrow-leaved Pimelea)			
1980.	5232 <i>Pimelea argentea</i> (Silvery Leaved Pimelea)			
1981.	5236 <i>Pimelea brevistyla</i>			Y
1982.	11667 <i>Pimelea brevistyla</i> subsp. <i>brevistyla</i>			
1983.	5238 <i>Pimelea ciliata</i> (White Banjine)			
1984.	11928 <i>Pimelea ciliata</i> subsp. <i>ciliata</i>			
1985.	11404 <i>Pimelea imbricata</i> var. <i>major</i>			
1986.	11402 <i>Pimelea imbricata</i> var. <i>piliger</i>			
1987.	11182 <i>Pimelea lehmanniana</i> subsp. <i>nervosa</i>			
1988.	5259 <i>Pimelea preissii</i>			
1989.	5260 <i>Pimelea rara</i> (Summer Pimelea)		P4	
1990.	5264 <i>Pimelea spectabilis</i> (Bunjong)			
1991.	12041 <i>Pimelea suaveolens</i> subsp. <i>suaveolens</i>			
1992.	5268 <i>Pimelea sulphurea</i> (Yellow Banjine)			
1993.	5269 <i>Pimelea sylvestris</i>			
1994.	1045 <i>Pistia stratiotes</i> (Water Lettuce)	Y		
1995.	8163 <i>Pithocarpa corymbulosa</i> (Corymbose Pithocarpa)		P3	

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1996.	8165 <i>Pithocarpa pulchella</i> (Beautiful Pithocarpa)			
1997.	18352 <i>Pithocarpa pulchella</i> var. <i>melanostigma</i>			
1998.	7301 <i>Plantago exilis</i>			
1999.	7303 <i>Plantago lanceolata</i> (Ribwort Plantain)	Y		
2000.	7304 <i>Plantago major</i> (Greater Plantain)	Y		
2001.	6249 <i>Platysace compressa</i> (Tapeworm Plant)			
2002.	6253 <i>Platysace filiformis</i>			
2003.	6255 <i>Platysace juncea</i>			
2004.	11132 <i>Platysace ramosissima</i>		P3	
2005.	4524 <i>Platytheca galioides</i>			
2006.	32413 <i>Pleuridium ecklonii</i>			
2007.	32478 <i>Pleuridium nervosum</i> var. <i>nervosum</i>			
2008.	65 <i>Pleurosorus rutifolius</i> (Blanket Fern)			
2009.	66 <i>Pleurosorus subglandulosus</i>			
2010.	571 <i>Poa annua</i> (Winter Grass)	Y		
2011.	573 <i>Poa drummondiana</i> (Knotted Poa)			
2012.	578 <i>Poa porphyroclados</i>			
2013.	17016 <i>Podalyria sericea</i>	Y		
2014.	45237 <i>Podolepis aristata</i> subsp. <i>aristata</i>			
2015.	8175 <i>Podolepis gracilis</i> (Slender Podolepis)			
2016.	8177 <i>Podolepis lessonii</i>			
2017.	8182 <i>Podotheca angustifolia</i> (Sticky Longheads)			
2018.	8183 <i>Podotheca chrysantha</i> (Yellow Podotheca)			
2019.	8184 <i>Podotheca gnaphalioides</i> (Golden Long-heads)			
2020.	8188 <i>Pogonolepis stricta</i>			
2021.	2905 <i>Polycarpon tetraphyllum</i> (Fourleaf Allseed)	Y		
2022.	8395 <i>Polygala myrtifolia</i> (Myrtleleaf Milkwort)	Y		
2023.	4578 <i>Polygala virgata</i>	Y		
2024.	2416 <i>Polygonum arenastrum</i> (Sand Wireweed)	Y		
2025.	582 <i>Polypogon monspeliensis</i> (Annual Beardgrass)	Y		
2026.	583 <i>Polypogon tenellus</i>			
2027.	4688 <i>Poranthera drummondii</i>			
2028.	4690 <i>Poranthera huegelii</i>			
2029.	4691 <i>Poranthera microphylla</i> (Small Poranthera)			
2030.	110 <i>Potamogeton drummondii</i>			
2031.	48252 <i>Prasophyllum cuneatum</i>			
2032.	1669 <i>Prasophyllum cyphochilum</i> (Pouched Leek Orchid)			
2033.	1670 <i>Prasophyllum drummondii</i> (Swamp Leek Orchid)			
2034.	1671 <i>Prasophyllum elatum</i> (Tall Leek Orchid)			
2035.	1672 <i>Prasophyllum fimbria</i> (Fringed Leek Orchid)			
2036.	1674 <i>Prasophyllum giganteum</i> (Bronze Leek Orchid)			
2037.	16688 <i>Prasophyllum gracile</i>			
2038.	1676 <i>Prasophyllum hians</i> (Yawning Leek Orchid)			
2039.	1677 <i>Prasophyllum macrostachyum</i> (Laughing Leek Orchid)			
2040.	1679 <i>Prasophyllum ovale</i> (Little Leek Orchid)			
2041.	1680 <i>Prasophyllum parvifolium</i> (Autumn Leek Orchid)			
2042.	10853 <i>Prasophyllum plumiforme</i>			
2043.	43303 <i>Protea repens</i>	Y		Y
2044.	17211 <i>Prunus cerasifera</i>	Y		
2045.	4155 <i>Psoralea pinnata</i> (African Scurfpea)	Y		
2046.	13255 <i>Pterochaeta paniculata</i>			
2047.	1686 <i>Pterostylis barbata</i> (Bird Orchid)			
2048.	10875 <i>Pterostylis concava</i>			
2049.	11118 <i>Pterostylis pyramidalis</i> (Snail Orchid)			
2050.	1693 <i>Pterostylis recurva</i> (Jug Orchid)			
2051.	12217 <i>Pterostylis sanguinea</i>			
2052.	1698 <i>Pterostylis vittata</i> (Banded Greenhood)			
2053.	2716 <i>Ptilotus declinatus</i> (Curved Mulla Mulla)			
2054.	11260 <i>Ptilotus drummondii</i> var. <i>drummondii</i> (Pussytail)			
2055.	11797 <i>Ptilotus drummondii</i> var. <i>minor</i>			
2056.	2720 <i>Ptilotus esquamatus</i>			
2057.	2727 <i>Ptilotus gaudichaudii</i>			
2058.	2742 <i>Ptilotus manglesii</i> (Pom Poms, Mulamula)			
2059.	2753 <i>Ptilotus pyramidatus</i>		T	Y
2060.	2763 <i>Ptilotus stirlingii</i> (Stirling's Mulla Mulla)			
2061.	4172 <i>Pultenaea ericifolia</i>			
2062.	16367 <i>Pyrorchis nigricans</i> (Red beaks, Elephants ears)			
2063.	8195 <i>Quinetia urvillei</i>			
2064.	2932 <i>Ranunculus colonorum</i> (Common Buttercup)			
2065.	2933 <i>Ranunculus muricatus</i> (Sharp Buttercup)	Y		

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
2066.	3061 <i>Raphanus raphanistrum</i> (Wild Radish)	Y		
2067.	6012 <i>Regelia ciliata</i>			
2068.	19183 <i>Retama raetam</i>	Y		
2069.	4822 <i>Rhamnus alaternus</i> (Buckthorn)	Y		
2070.	13300 <i>Rhodanthe citrina</i>			
2071.	15035 <i>Rhodanthe corymbosa</i>			
2072.	13234 <i>Rhodanthe manglesii</i>			
2073.	13312 <i>Rhodanthe pyrethrum</i>			
2074.	13309 <i>Rhodanthe spicata</i>			
2075.	<i>Riccia bifurca</i>			
2076.	<i>Riccia multifida</i>			
2077.	19942 <i>Ricinocarpos undulatus</i>			
2078.	6019 <i>Rinzia communis</i> (Mallee Rinzia)			
2079.	6020 <i>Rinzia crassifolia</i> (Darling Range Rinzia)			
2080.	17020 <i>Robinia pseudoacacia</i>	Y		
2081.	1554 <i>Romulea flava</i>	Y		
2082.	14485 <i>Romulea flava</i> var. <i>minor</i>	Y		
2083.	1556 <i>Romulea rosea</i> (Guildford Grass)	Y		
2084.	11544 <i>Romulea rosea</i> var. <i>australis</i> (Guildford Grass)	Y		
2085.	14924 <i>Romulea rosea</i> var. <i>communis</i>	Y		
2086.	10931 <i>Rosa chinensis</i> x <i>moschata</i>	Y		
2087.	44608 <i>Rosulabryum billardieri</i>			
2088.	32426 <i>Rosulabryum campylothecium</i>			
2089.	32429 <i>Rosulabryum torquescens</i>			
2090.	20506 <i>Rubus anglocandicans</i>	Y		
2091.	20496 <i>Rubus laudatus</i>	Y		
2092.	2429 <i>Rumex acetosella</i> (Sorrel)	Y		
2093.	116 <i>Ruppia polycarpa</i>			
2094.	40431 <i>Rytidosperma acerosum</i>			
2095.	40425 <i>Rytidosperma caespitosum</i>			
2096.	40426 <i>Rytidosperma occidentale</i>			
2097.	40430 <i>Rytidosperma pilosum</i>			
2098.	40427 <i>Rytidosperma setaceum</i>			
2099.	2906 <i>Sagina apetala</i> (Annual Pearlwort)	Y		
2100.	20063 <i>Salix babylonica</i>	Y		
2101.	44534 <i>Salix humboldtiana</i>	Y		
2102.	43840 <i>Salix matsudana</i>	Y		
2103.	79 <i>Salvinia molesta</i> (Salvinia)	Y		
2104.	6483 <i>Samolus junceus</i>			
2105.	2356 <i>Santalum acuminatum</i> (Quandong, Wamga)			
2106.	2591 <i>Sarcocornia blackiana</i>			
2107.	2593 <i>Sarcocornia quinqueflora</i> (Beaded Samphire)			
2108.	7602 <i>Scaevola calliptera</i>			
2109.	7603 <i>Scaevola canescens</i> (Grey Scaevola)			
2110.	7613 <i>Scaevola glandulifera</i> (Viscid Hand-flower)			
2111.	7619 <i>Scaevola lanceolata</i> (Long-leaved Scaevola)			
2112.	7634 <i>Scaevola phlebopetala</i> (Velvet Fanflower)			
2113.	7635 <i>Scaevola pilosa</i> (Hairy Fan-flower)			
2114.	7636 <i>Scaevola platyphylla</i> (Broad-leaved Fanflower)			
2115.	12585 <i>Scaevola repens</i>			
2116.	13182 <i>Scaevola repens</i> var. <i>repens</i>			
2117.	11027 <i>Schinus terebinthifolius</i>	Y		
2118.	32432 <i>Schizymerium bryoides</i>			
2119.	6263 <i>Schoenolaena juncea</i>			
2120.	48356 <i>Schoenoplectus tabernaemontani</i>			
2121.	971 <i>Schoenus andrewsii</i>			
2122.	975 <i>Schoenus bifidus</i>			
2123.	978 <i>Schoenus brevisetis</i>			
2124.	979 <i>Schoenus caespitius</i>			
2125.	980 <i>Schoenus capillifolius</i>		P3	
2126.	982 <i>Schoenus clandestinus</i>			
2127.	984 <i>Schoenus curvifolius</i>			
2128.	985 <i>Schoenus discifer</i>			
2129.	986 <i>Schoenus efoliatus</i>			
2130.	987 <i>Schoenus elegans</i>			
2131.	991 <i>Schoenus grammatophyllus</i>			
2132.	17606 <i>Schoenus griffinianus</i>		P4	
2133.	994 <i>Schoenus humilis</i>			
2134.	996 <i>Schoenus laevigatus</i>			
2135.	998 <i>Schoenus latitans</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
2136.	1002 <i>Schoenus nanus</i> (Tiny Bog Rush)			
2137.	1006 <i>Schoenus odontocarpus</i>			
2138.	1007 <i>Schoenus pedicellatus</i>			
2139.	1008 <i>Schoenus pennisetis</i>		P3	
2140.	1009 <i>Schoenus pleiostemoneus</i>			
2141.	17614 <i>Schoenus plumosus</i>			
2142.	1011 <i>Schoenus rigens</i>			
2143.	1013 <i>Schoenus sculptus</i> (Gimlet Bog-rush)			
2144.	17731 <i>Schoenus</i> sp. Waroona (G.J. Keighery 12235)		P3	
2145.	18164 <i>Schoenus</i> sp. smooth culms (K.R. Newbey 7823)			
2146.	1016 <i>Schoenus subbarbatus</i> (Bearded Bog-rush)			
2147.	1017 <i>Schoenus subbulbosus</i>			
2148.	1018 <i>Schoenus subfascicularis</i>			
2149.	1019 <i>Schoenus subflavus</i> (Yellow Bog-rush)			
2150.	1020 <i>Schoenus sublateralis</i>			
2151.	1026 <i>Schoenus unispiculatus</i>			
2152.	17409 <i>Schoenus variicellae</i>			
2153.	6029 <i>Scholtzia capitata</i>			
2154.	6033 <i>Scholtzia involucreta</i> (Spiked Scholtzia)			
2155.	6034 <i>Scholtzia laxiflora</i>			
2156.	6 <i>Selaginella gracillima</i> (Tiny Clubmoss)			
2157.	32433 <i>Sematophyllum homomallum</i>			
2158.	32483 <i>Sematophyllum subhumile</i> var. <i>contiguum</i>			
2159.	8203 <i>Senecio diaschides</i>			
2160.	8205 <i>Senecio gilbertii</i>		P1	
2161.	8206 <i>Senecio glomeratus</i> (Cluster-headed Fireweed)			
2162.	8212 <i>Senecio leucoglossus</i>		P4	
2163.	20663 <i>Senecio multicaulis</i> subsp. <i>multicaulis</i>			
2164.	8216 <i>Senecio picridioides</i>			
2165.	20161 <i>Senecio pinnatifolius</i>			
2166.	25884 <i>Senecio pinnatifolius</i> var. <i>latilobus</i>			
2167.	8220 <i>Senecio vulgaris</i> (Common Groundsel)	Y		
2168.	609 <i>Setaria palmifolia</i> (Palm Grass)	Y		
2169.	19453 <i>Setaria parviflora</i>	Y		
2170.	611 <i>Setaria sphacelata</i> (South African Pigeon Grass)	Y		
2171.	613 <i>Setaria verticillata</i> (Whorled Pigeon Grass)	Y		
2172.	4980 <i>Sida hookeriana</i>			
2173.	2909 <i>Silene gallica</i> (French Catchfly)	Y		
2174.	15972 <i>Silene gallica</i> var. <i>gallica</i>	Y		
2175.	2910 <i>Silene nocturna</i> (Mediterranean Catchfly)	Y		
2176.	2911 <i>Silene vulgaris</i> (Bladder Campion)	Y		
2177.	8224 <i>Siloxerus filifolius</i>			
2178.	8225 <i>Siloxerus humifusus</i> (Procumbent Siloxerus)			
2179.	14583 <i>Siloxerus multiflorus</i>			
2180.	11114 <i>Solanum giganteum</i>	Y		
2181.	7020 <i>Solanum linnaeanum</i> (Apple of Sodom)	Y		
2182.	7022 <i>Solanum nigrum</i> (Black Berry Nightshade)	Y		
2183.	9259 <i>Solanum nodiflorum</i> (Glossy Nightshade)	Y		
2184.	7035 <i>Solanum sisymbriifolium</i> (Viscid Nightshade)	Y		
2185.	45036 <i>Solidago chilensis</i>	Y		
2186.	8231 <i>Sonchus oleraceus</i> (Common Sowthistle)	Y		
2187.	616 <i>Sorghum bicolor</i> (Grain Sorghum)	Y		
2188.	617 <i>Sorghum halepense</i> (Johnson Grass)	Y		
2189.	35236 <i>Sorghum x drummondii</i> (Sudan Grass)	Y		
2190.	1312 <i>Sowerbaea laxiflora</i> (Purple Tassels)			
2191.	1558 <i>Sparaxis bulbifera</i>	Y		
2192.	1560 <i>Sparaxis pillansii</i> (Harlequin Flower)	Y		
2193.	2912 <i>Spergula arvensis</i> (Corn Spurry)	Y		
2194.	4205 <i>Sphaerolobium linophyllum</i>			
2195.	4206 <i>Sphaerolobium macranthum</i>			
2196.	4207 <i>Sphaerolobium medium</i>			
2197.	4211 <i>Sphaerolobium vimineum</i> (Leafless Globe Pea)			
2198.	1700 <i>Spiculalea ciliata</i> (Elbow Orchid)			
2199.	8710 <i>Sporobolus africanus</i> (Parramatta Grass)	Y		
2200.	13571 <i>Sporobolus blakei</i>		P3	
2201.	45118 <i>Sporobolus schoenoides</i>	Y		
2202.	635 <i>Sporobolus virginicus</i> (Marine Couch)			
2203.	4828 <i>Spyridium globulosum</i> (Basket Bush)			
2204.	6930 <i>Stachys arvensis</i> (Staggerweed)	Y		
2205.	4716 <i>Stachystemon vermicularis</i>			

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2206.	4733 <i>Stackhousia monogyna</i>			
2207.	9070 <i>Stackhousia pubescens</i> (Downy Stackhousia)			
2208.	43540 <i>Stackhousia</i> sp. Red-blotched corolla (A. Markey 911)		P3	
2209.	16197 <i>Stenanthemum emarginatum</i>			
2210.	13475 <i>Stenanthemum humile</i>			
2211.	3076 <i>Stenopetalum filifolium</i>			
2212.	19403 <i>Stenopetalum gracile</i>			
2213.	636 <i>Stenotaphrum secundatum</i> (Buffalo Grass)	Y		
2214.	2316 <i>Stirlingia latifolia</i> (Blueboy)			
2215.	2317 <i>Stirlingia simplex</i>			
2216.	44492 <i>Stuckenia pectinata</i>			
2217.	18564 <i>Stylidium aceratum</i>		P3	
2218.	7679 <i>Stylidium adpressum</i> (Trigger-on-stilts)			
2219.	7681 <i>Stylidium affine</i> (Queen Triggerplant)			
2220.	7684 <i>Stylidium amoenum</i> (Lovely Triggerplant)			
2221.	17669 <i>Stylidium amoenum</i> var. <i>caulescens</i>			
2222.	30278 <i>Stylidium androsaceum</i>			
2223.	25831 <i>Stylidium araeophyllum</i> (Stilt Walker)			
2224.	30276 <i>Stylidium bicolor</i>			
2225.	7692 <i>Stylidium breviscapum</i> (Boomerang Triggerplant)			
2226.	7693 <i>Stylidium brunonianum</i> (Pink Fountain Triggerplant)			
2227.	7694 <i>Stylidium bulbiferum</i> (Circus Triggerplant)			
2228.	7696 <i>Stylidium calcaratum</i> (Book Triggerplant)			
2229.	7698 <i>Stylidium caricifolium</i> (Milkmaids)			
2230.	7699 <i>Stylidium carnosum</i> (Fleshy-leaved Triggerplant)			
2231.	7702 <i>Stylidium ciliatum</i> (Golden Triggerplant)			
2232.	7712 <i>Stylidium despectum</i> (Dwarf Triggerplant)			
2233.	7713 <i>Stylidium dichotomum</i> (Pins-and-needles)			
2234.	7716 <i>Stylidium diuroides</i> (Donkey Triggerplant)			
2235.	11808 <i>Stylidium diuroides</i> subsp. <i>diuroides</i>			
2236.	7717 <i>Stylidium divaricatum</i> (Daddy-long-legs)			
2237.	7719 <i>Stylidium ecome</i> (Foot Triggerplant)			
2238.	7721 <i>Stylidium emarginatum</i> (Biddy-four-legs)			
2239.	19251 <i>Stylidium eriopodium</i>			
2240.	7734 <i>Stylidium guttatum</i> (Dotted Triggerplant)			
2241.	7736 <i>Stylidium hispidum</i> (White Butterfly Triggerplant)			
2242.	7742 <i>Stylidium inundatum</i> (Hundreds and Thousands)			
2243.	7745 <i>Stylidium junceum</i> (Reed Triggerplant)			
2244.	13083 <i>Stylidium lateriticola</i>			
2245.	7752 <i>Stylidium lineatum</i> (Sunny Triggerplant)			
2246.	7756 <i>Stylidium longitubum</i> (Jumping Jacks)		P4	
2247.	25829 <i>Stylidium neurophyllum</i> (Coastal Plain Triggerplant)			
2248.	7768 <i>Stylidium obtusatum</i> (Pinafore Triggerplant)			
2249.	7772 <i>Stylidium perpusillum</i> (Tiny Triggerplant)			
2250.	7773 <i>Stylidium petiolare</i> (Horn Triggerplant)			
2251.	7774 <i>Stylidium pilliferum</i> (Common Butterfly Triggerplant)			
2252.	7781 <i>Stylidium pubigerum</i> (Yellow Butterfly Triggerplant)			
2253.	7782 <i>Stylidium pulchellum</i> (Thumbelina Triggerplant)			
2254.	7783 <i>Stylidium pycnostachyum</i> (Downy Triggerplant)			
2255.	33106 <i>Stylidium recurvum</i>			
2256.	7785 <i>Stylidium repens</i> (Matted Triggerplant)			
2257.	7787 <i>Stylidium rhynchocarpum</i> (Black-beaked Triggerplant)			
2258.	7790 <i>Stylidium roseoalatum</i> (Pink-wing Triggerplant)			
2259.	25806 <i>Stylidium scariosum</i>			
2260.	7798 <i>Stylidium schoenoides</i> (Cow Kicks)			
2261.	<i>Stylidium</i> sp.			
2262.	17992 <i>Stylidium</i> sp. <i>Bindoon</i> (K.F. Kenneally 11405)			
2263.	7803 <i>Stylidium striatum</i> (Fan-leaved Triggerplant)		P4	
2264.	45594 <i>Stylidium tenue</i> subsp. <i>majusculum</i> (Showy Fountain Triggerplant)			
2265.	45593 <i>Stylidium tenue</i> subsp. <i>tenue</i> (Little Fountain Triggerplant)			
2266.	23511 <i>Stylidium thesioides</i> (Delicate Triggerplant)			
2267.	7806 <i>Stylidium utricularioides</i> (Pink Fan Triggerplant)			
2268.	40947 <i>Stylidium xanthellum</i>			
2269.	1260 <i>Stypandra glauca</i> (Blind Grass)			
2270.	48297 <i>Styphelia filifolia</i>		P3	
2271.	6476 <i>Styphelia tenuiflora</i> (Common Pinheath)			
2272.	2639 <i>Suaeda australis</i> (Seablite)			
2273.	25902 <i>Symphotrichum squamatum</i> (Bushy Starwort)	Y		
2274.	2321 <i>Synaphea acutiloba</i> (Granite Synaphea)			
2275.	12914 <i>Synaphea decorticans</i>			

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2276.	2323 <i>Synaphea gracillima</i>			
2277.	16864 <i>Synaphea petiolaris</i> subsp. <i>petiolaris</i>			
2278.	2325 <i>Synaphea pinnata</i> (<i>Helena Synaphea</i>)			
2279.	18590 <i>Synaphea</i> sp. <i>Fairbridge Farm</i> (<i>D. Papenfus 696</i>)		T	
2280.	30751 <i>Synaphea</i> sp. <i>Pinjarra Plain</i> (<i>A.S. George 17182</i>)		T	
2281.	2329 <i>Synaphea spinulosa</i>			
2282.	15532 <i>Synaphea spinulosa</i> subsp. <i>spinulosa</i>			
2283.	32438 <i>Syntrichia pagorum</i>			
2284.	20135 <i>Taxandria linearifolia</i>			
2285.	33236 <i>Tecticornia halocnemoides</i> (<i>Shrubby Samphire</i>)			
2286.	33237 <i>Tecticornia halocnemoides</i> subsp. <i>halocnemoides</i>			
2287.	33319 <i>Tecticornia indica</i> subsp. <i>bidens</i>			
2288.	31718 <i>Tecticornia lepidosperma</i>			
2289.	4251 <i>Templetonia drummondii</i>			
2290.	32441 <i>Tetrapterum cylindricum</i>			
2291.	1034 <i>Tetralia capillaris</i> (<i>Hair Sedge</i>)			
2292.	1036 <i>Tetralia octandra</i>			
2293.	35579 <i>Tetralia</i> sp. <i>Jarrah Forest</i> (<i>R. Davis 7391</i>)			
2294.	667 <i>Tettrarrhena laevis</i> (<i>Forest Ricegrass</i>)			
2295.	4535 <i>Tetralthea hirsuta</i> (<i>Black Eyed Susan</i>)			
2296.	48342 <i>Tetralthea hirsuta</i> subsp. <i>hirsuta</i>			
2297.	48341 <i>Tetralthea hirsuta</i> subsp. <i>viminea</i>			
2298.	4537 <i>Tetralthea nuda</i>			
2299.	4544 <i>Tetralthea setigera</i>			
2300.	1701 <i>Thelymitra antennifera</i> (<i>Vanilla Orchid</i>)			
2301.	10856 <i>Thelymitra benthamiana</i> (<i>Leopard Orchid</i>)			
2302.	1703 <i>Thelymitra canaliculata</i> (<i>Blue Sun Orchid</i>)			
2303.	1705 <i>Thelymitra crinita</i> (<i>Blue Lady Orchid</i>)			
2304.	1707 <i>Thelymitra flexuosa</i> (<i>Twisted Sun Orchid</i>)			
2305.	1708 <i>Thelymitra fuscolutea</i> (<i>Chestnut Sun Orchid</i>)			
2306.	11053 <i>Thelymitra macrophylla</i>			
2307.	20729 <i>Thelymitra magnifica</i> (<i>Crystal Brook Star Orchid</i>)		P1	
2308.	<i>Thelymitra</i> sp.			
2309.	10862 <i>Thelymitra stellata</i> (<i>Star Orchid</i>)		T	
2310.	1717 <i>Thelymitra variegata</i> (<i>Queen of Sheba</i>)		P2	
2311.	1718 <i>Thelymitra villosa</i> (<i>Custard Orchid</i>)			
2312.	20731 <i>Thelymitra vulgaris</i>			
2313.	673 <i>Themeda triandra</i>			
2314.	5080 <i>Thomasia foliosa</i>			
2315.	5084 <i>Thomasia grandiflora</i> (<i>Large Flowered Thomasia</i>)			
2316.	5087 <i>Thomasia macrocarpa</i> (<i>Large Fruited Thomasia</i>)			
2317.	5091 <i>Thomasia paniculata</i>			
2318.	5105 <i>Thomasia triphylla</i>			
2319.	19716 <i>Thunbergia alata</i>	Y		
2320.	1317 <i>Thysanotus anceps</i>		P3	
2321.	1318 <i>Thysanotus arbuscula</i>			
2322.	1319 <i>Thysanotus arenarius</i>			
2323.	1328 <i>Thysanotus dichotomus</i> (<i>Branching Fringe Lily</i>)			
2324.	1330 <i>Thysanotus fastigiatus</i>			
2325.	1334 <i>Thysanotus glaucus</i>		P4	
2326.	1338 <i>Thysanotus manglesianus</i> (<i>Fringed Lily</i>)			
2327.	1339 <i>Thysanotus multiflorus</i> (<i>Many-flowered Fringe Lily</i>)			
2328.	1343 <i>Thysanotus patersonii</i>			
2329.	1350 <i>Thysanotus scaber</i>			
2330.	<i>Thysanotus</i> sp.			
2331.	46055 <i>Thysanotus</i> sp. <i>Coastal plain</i> (<i>N.H. Brittan 66/63</i>)			
2332.	1351 <i>Thysanotus sparteus</i>			
2333.	1354 <i>Thysanotus tenellus</i>			
2334.	1357 <i>Thysanotus thyrsoideus</i>			
2335.	1358 <i>Thysanotus triandrus</i>			
2336.	8248 <i>Tolpis barbata</i> (<i>Yellow Hawkweed</i>)	Y		
2337.	<i>Tortula recurvata</i>			
2338.	6266 <i>Trachymene coerulea</i> (<i>Blue Lace Flower</i>)			
2339.	19041 <i>Trachymene coerulea</i> subsp. <i>coerulea</i>			
2340.	6280 <i>Trachymene pilosa</i> (<i>Native Parsnip</i>)			
2341.	8250 <i>Tragopogon porrifolius</i>	Y		
2342.	17684 <i>Tremulina tremula</i>			
2343.	11112 <i>Tribolium uniola</i>	Y		
2344.	1481 <i>Tribonanthes australis</i>			
2345.	1482 <i>Tribonanthes brachypetala</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
2346.	1483 <i>Tribonanthes longipetala</i>			
2347.	1485 <i>Tribonanthes violacea</i>			
2348.	8251 <i>Trichocline spathulata</i> (Native Gerbera)			
2349.	1361 <i>Tricoryne elatior</i> (Yellow Autumn Lily)			
2350.	1362 <i>Tricoryne humilis</i>			
2351.	1363 <i>Tricoryne tenella</i>			
2352.	43207 <i>Tricostularia exsul</i>			
2353.	4289 <i>Trifolium angustifolium</i> (Narrowleaf Clover)	Y		
2354.	17145 <i>Trifolium angustifolium</i> var. <i>angustifolium</i>	Y		
2355.	4291 <i>Trifolium arvense</i> (Hare's Foot Clover)	Y		
2356.	17542 <i>Trifolium arvense</i> var. <i>arvense</i>	Y		
2357.	4292 <i>Trifolium campestre</i> (Hop Clover)	Y		
2358.	17763 <i>Trifolium campestre</i> var. <i>campestre</i> (Hop Clover)	Y		
2359.	4295 <i>Trifolium dubium</i> (Suckling Clover)	Y		
2360.	17759 <i>Trifolium fragiferum</i> var. <i>fragiferum</i>	Y		
2361.	4297 <i>Trifolium glomeratum</i> (Cluster Clover)	Y		
2362.	4298 <i>Trifolium hirtum</i> (Rose Clover)	Y		
2363.	17758 <i>Trifolium hybridum</i> var. <i>hybridum</i>	Y		
2364.	4303 <i>Trifolium micranthum</i> (Slender Suckling Clover)	Y		
2365.	17788 <i>Trifolium pratense</i> var. <i>sativum</i>	Y		
2366.	4313 <i>Trifolium subterraneum</i> (Subterranean Clover)	Y		
2367.	4315 <i>Trifolium tomentosum</i> (Woolly Clover)	Y		
2368.	15509 <i>Trifolium tomentosum</i> var. <i>tomentosum</i>	Y		
2369.	33676 <i>Triglochin calcitrapa</i>			
2370.	33677 <i>Triglochin centrocarpa</i>			
2371.	147 <i>Triglochin mucronata</i>			
2372.	18587 <i>Triglochin nana</i>			
2373.	151 <i>Triglochin striata</i>			
2374.	35016 <i>Trihaloragis hexandra</i> subsp. <i>integrifolia</i>			
2375.	4737 <i>Tripterococcus brunonis</i> (Winged Stackhousia)			
2376.	1139 <i>Triphuria bibracteata</i>			
2377.	32658 <i>Triphuria occidentalis</i> (Swan Hydatella)		T	
2378.	38401 <i>Tritonia gladiolaris</i> (Lined Tritonia)	Y		
2379.	4360 <i>Tropaeolum majus</i> (Garden Nasturtium)	Y		
2380.	4839 <i>Trymalium angustifolium</i>			
2381.	4842 <i>Trymalium ledifolium</i>			
2382.	11665 <i>Trymalium ledifolium</i> var. <i>ledifolium</i>			
2383.	13479 <i>Trymalium ledifolium</i> var. <i>rosmarinifolium</i>			
2384.	33418 <i>Trymalium odoratissimum</i> subsp. <i>odoratissimum</i>			
2385.	99 <i>Typha orientalis</i> (Bulrush, Cumbungi)			
2386.	8255 <i>Ursinia anthemoides</i> (Ursinia)	Y		
2387.	38388 <i>Ursinia anthemoides</i> subsp. <i>anthemoides</i>	Y		
2388.	7138 <i>Utricularia inaequalis</i>			
2389.	7145 <i>Utricularia menziesii</i> (Redcoats)			
2390.	7148 <i>Utricularia multifida</i>			
2391.	7153 <i>Utricularia tenella</i>			
2392.	7157 <i>Utricularia violacea</i> (Violet Bladderwort)			
2393.	34772 <i>Vachellia karroo</i>	Y		
2394.	17868 <i>Vallisneria nana</i>			
2395.	7665 <i>Velleia trinervis</i>			
2396.	8257 <i>Vellereophyton dealbatum</i> (White Cudweed)	Y		
2397.	19511 <i>Verbena officinalis</i>	Y		
2398.	15725 <i>Verbesina encelioides</i>	Y		
2399.	15431 <i>Verticordia acerosa</i> var. <i>acerosa</i>			
2400.	12388 <i>Verticordia acerosa</i> var. <i>preissii</i>			
2401.	6076 <i>Verticordia densiflora</i> (Compacted Featherflower)			
2402.	12411 <i>Verticordia densiflora</i> var. <i>cespitosa</i>			
2403.	15432 <i>Verticordia densiflora</i> var. <i>densiflora</i>			
2404.	6077 <i>Verticordia drummondii</i> (Drummond's Featherflower)			
2405.	6088 <i>Verticordia huegelii</i> (Variegated Featherflower)			
2406.	12429 <i>Verticordia huegelii</i> var. <i>decumbens</i>			
2407.	15433 <i>Verticordia huegelii</i> var. <i>huegelii</i>			
2408.	15434 <i>Verticordia insignis</i> subsp. <i>insignis</i>			
2409.	14714 <i>Verticordia lindleyi</i> subsp. <i>lindleyi</i>		P4	
2410.	6101 <i>Verticordia nitens</i> (Morrison Featherflower, Kodjeningara)			
2411.	6107 <i>Verticordia pennigera</i>			
2412.	6110 <i>Verticordia plumosa</i> (Plumed Featherflower)			
2413.	12449 <i>Verticordia plumosa</i> var. <i>brachyphylla</i>			
2414.	15618 <i>Verticordia plumosa</i> var. <i>plumosa</i>			
2415.	12460 <i>Verticordia serrata</i> var. <i>linearis</i>		P3	

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
2416.	4319 <i>Vicia benghalensis</i> (Purple Vetch)	Y		
2417.	4322 <i>Vicia sativa</i> (Common Vetch)	Y		
2418.	12070 <i>Vicia sativa</i> subsp. <i>sativa</i>	Y		
2419.	4325 <i>Viminaria juncea</i> (Swishbush, Koweda)			
2420.	6575 <i>Vinca major</i> (Blue Periwinkle)	Y		
2421.	17042 <i>Vitis vinifera</i>	Y		
2422.	722 <i>Vulpia bromoides</i> (Squirrel Tail Fescue)	Y		
2423.	724 <i>Vulpia myuros</i> (Rat's Tail Fescue)	Y		
2424.	12052 <i>Vulpia myuros</i> forma <i>megalura</i>	Y		
2425.	33101 <i>Vulpia myuros</i> forma <i>myuros</i>	Y		
2426.	7384 <i>Wahlenbergia capensis</i> (Cape Bluebell)	Y		
2427.	7386 <i>Wahlenbergia gracilentia</i> (Annual Bluebell)			
2428.	7388 <i>Wahlenbergia multicaulis</i>			
2429.	7389 <i>Wahlenbergia preissii</i>			
2430.	13328 <i>Waitzia nitida</i>			
2431.	8281 <i>Waitzia podolepis</i>			
2432.	8282 <i>Waitzia suaveolens</i> (Fragrant Waitzia)			
2433.	13333 <i>Waitzia suaveolens</i> var. <i>suaveolens</i>			
2434.	5106 <i>Waltheria indica</i>			
2435.	13103 <i>Watsonia borbonica</i>	Y		
2436.	18375 <i>Watsonia knysnana</i>	Y		
2437.	1566 <i>Watsonia marginata</i>	Y		
2438.	1567 <i>Watsonia meriana</i> (Bulbil Watsonia)	Y		
2439.	18108 <i>Watsonia meriana</i> var. <i>bulbillifera</i>	Y		
2440.	18118 <i>Watsonia meriana</i> var. <i>meriana</i>	Y		
2441.	1569 <i>Watsonia versfeldii</i>	Y		
2442.	32456 <i>Weissia rutilans</i>			
2443.	1394 <i>Wurmbea dioica</i> (Early Nancy)			
2444.	12072 <i>Wurmbea dioica</i> subsp. <i>alba</i>			
2445.	1401 <i>Wurmbea pygmaea</i>			
2446.	1403 <i>Wurmbea tenella</i> (Eight Nancy)			
2447.	8287 <i>Xanthium spinosum</i> (Bathurst Burr, Common Cocklebur, Spiny Cocklebur, Spiny Clotbur)	Y		
2448.	1249 <i>Xanthorrhoea acanthostachya</i>			
2449.	14544 <i>Xanthorrhoea brunonis</i> subsp. <i>brunonis</i>			
2450.	1252 <i>Xanthorrhoea drummondii</i>			
2451.	1253 <i>Xanthorrhoea gracilis</i> (Graceful Grass Tree, Mimidi)			
2452.	1256 <i>Xanthorrhoea preissii</i> (Grass tree, Palga)			
2453.	6283 <i>Xanthosia atkinsoniana</i>			
2454.	6284 <i>Xanthosia candida</i>			
2455.	6285 <i>Xanthosia ciliata</i>			
2456.	6289 <i>Xanthosia huegelii</i>			
2457.	44861 <i>Xerochrysum macranthum</i>			
2458.	2331 <i>Xylomelum occidentale</i> (Woody Pear, Djandin)			
2459.	7113 <i>Zaluzianskya divaricata</i> (Spreading Night Phlox)	Y		
2460.	1049 <i>Zantedeschia aethiopica</i> (Arum Lily)	Y		

Protozoa

2461.	38969 <i>Arcyria minuta</i>			
2462.	38976 <i>Badhamia foliicola</i>			
2463.	38982 <i>Ceratomyxa fruticulosa</i>			
2464.	39030 <i>Enerthenema papillatum</i>			
2465.	39054 <i>Oligonema schweinitzii</i>			
2466.	39097 <i>Trichia decipiens</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.



EPBC Act Protected Matters Report

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

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

Information is available about [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

Report created: 29/11/17 12:03:54

[Summary](#)

[Details](#)

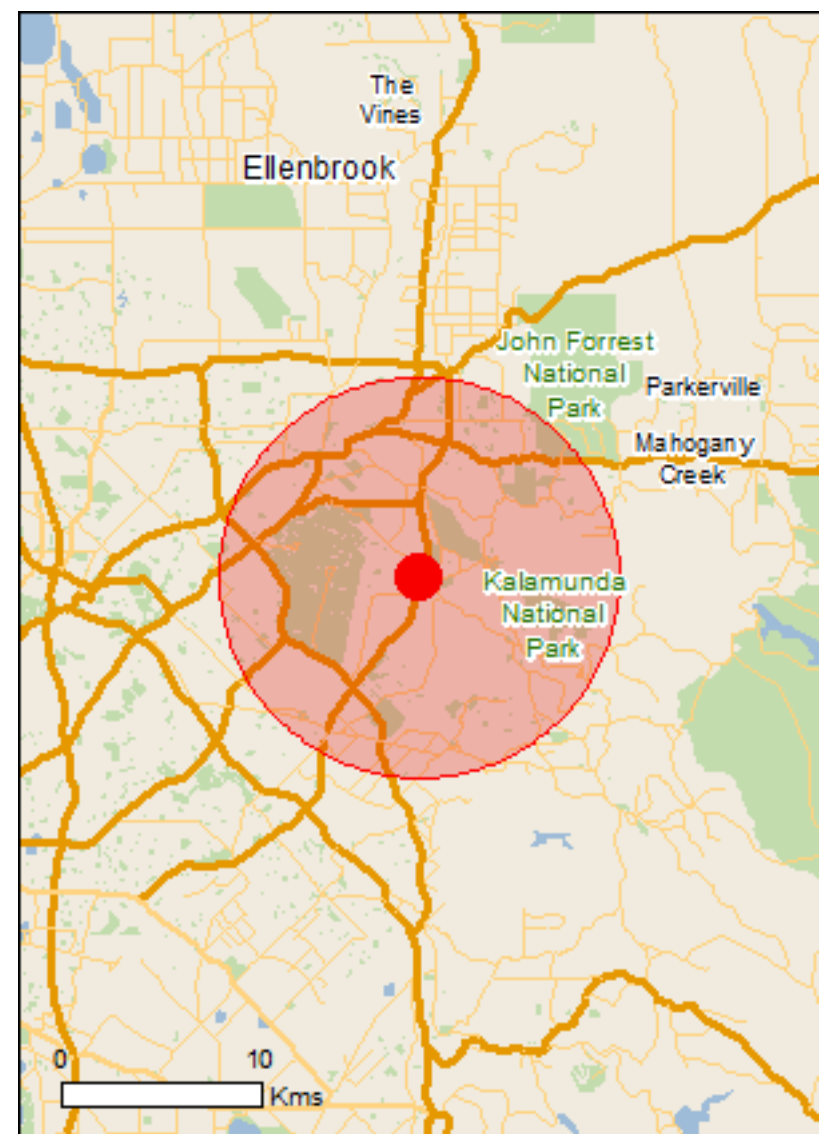
[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

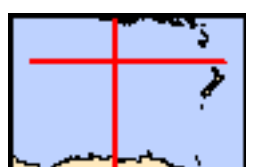
[Acknowledgements](#)



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

[Coordinates](#)

Buffer: 10.0Km



Summary

Matters of National Environmental Significance

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

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	6
Listed Threatened Species:	57
Listed Migratory Species:	22

Other Matters Protected by the EPBC Act

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

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

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

Commonwealth Land:	4
Commonwealth Heritage Places:	None
Listed Marine Species:	31
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Commonwealth Reserves Marine:	None

Extra Information

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

State and Territory Reserves:	16
Regional Forest Agreements:	1
Invasive Species:	49
Nationally Important Wetlands:	3
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

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.

Name	Status	Type of Presence
Banksia Woodlands of the Swan Coastal Plain ecological community	Endangered	Community likely to occur within area
Clay Pans of the Swan Coastal Plain	Critically Endangered	Community likely to occur within area
Corymbia calophylla - Kingia australis woodlands on heavy soils of the Swan Coastal Plain	Endangered	Community known to occur within area
Corymbia calophylla - Xanthorrhoea preissii woodlands and shrublands of the Swan Coastal Plain	Endangered	Community known to occur within area
Shrublands and Woodlands of the eastern Swan Coastal Plain	Endangered	Community known to occur within area
Subtropical and Temperate Coastal Saltmarsh	Vulnerable	Community likely to occur within area

Listed Threatened Species

[[Resource Information](#)]

Name	Status	Type of Presence
Birds		
Anous tenuirostris melanops Australian Lesser Noddy [26000]	Vulnerable	Species or species habitat may occur within area
Botaurus poiciloptilus Australasian Bittern [1001]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calyptorhynchus banksii naso Forest Red-tailed Black-Cockatoo, Karrak [67034]	Vulnerable	Species or species habitat known to occur within area
Calyptorhynchus baudinii Baudin's Cockatoo, Long-billed Black-Cockatoo [769]	Vulnerable	Roosting known to occur within area
Calyptorhynchus latirostris Carnaby's Cockatoo, Short-billed Black-Cockatoo [59523]	Endangered	Species or species habitat known to occur within area
Diomedea amsterdamensis Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Species or species habitat likely to occur within area

Name	Status	Type of Presence
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Species or species habitat likely to occur within area
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Species or species habitat likely to occur within area
Leipoa ocellata Malleefowl [934]	Vulnerable	Species or species habitat likely to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pachyptila turtur subantarctica Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat likely to occur within area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
Thalassarche cauta cauta Shy Albatross, Tasmanian Shy Albatross [82345]	Vulnerable	Species or species habitat may occur within area
Thalassarche cauta steadi White-capped Albatross [82344]	Vulnerable	Species or species habitat likely to occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
Insects		
Leioproctus douglasiellus a short-tongued bee [66756]	Critically Endangered	Species or species habitat likely to occur within area
Mammals		
Bettongia penicillata Brush-tailed Bettong, Woylie [213]	Endangered	Species or species habitat may occur within area
Dasyurus geoffroii Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat known to occur within area
Pseudocheirus occidentalis Western Ringtail Possum, Ngwayir, Womp, Woder, Ngoor, Ngoolangit [25911]	Vulnerable	Species or species habitat may occur within area
Setonix brachyurus Quokka [229]	Vulnerable	Species or species habitat likely to occur within area
Plants		
Acacia anomala Grass Wattle, Chittering Grass Wattle [8153]	Vulnerable	Species or species

Name	Status	Type of Presence
Acacia aphylla Leafless Rock Wattle [13553]	Vulnerable	habitat known to occur within area Species or species habitat known to occur within area
Andersonia gracilis Slender Andersonia [14470]	Endangered	Species or species habitat known to occur within area
Anigozanthos viridis subsp. terraspectans Dwarf Green Kangaroo Paw [3435]	Vulnerable	Species or species habitat may occur within area
Anthocercis gracilis Slender Tailflower [11103]	Vulnerable	Species or species habitat likely to occur within area
Banksia mimica Summer Honey-pot [82765]	Endangered	Species or species habitat likely to occur within area
Caladenia huegelii King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid [7309]	Endangered	Species or species habitat known to occur within area
Calytrix breviseta subsp. breviseta Swamp Starflower [23879]	Endangered	Species or species habitat known to occur within area
Chamelaucium sp. Gingin (N.G.Marchant 6) Gingin Wax [88881]	Endangered	Species or species habitat may occur within area
Conospermum undulatum Wavy-leaved Smokebush [24435]	Vulnerable	Species or species habitat likely to occur within area
Darwinia apiculata Scarp Darwinia [8763]	Endangered	Species or species habitat likely to occur within area
Diuris drummondii Tall Donkey Orchid [4365]	Vulnerable	Species or species habitat likely to occur within area
Diuris micrantha Dwarf Bee-orchid [55082]	Vulnerable	Species or species habitat likely to occur within area
Diuris purdiei Purdie's Donkey-orchid [12950]	Endangered	Species or species habitat known to occur within area
Drakaea elastica Glossy-leaved Hammer Orchid, Glossy-leaved Hammer Orchid, Warty Hammer Orchid [16753]	Endangered	Species or species habitat likely to occur within area
Drakaea micrantha Dwarf Hammer-orchid [56755]	Vulnerable	Species or species habitat may occur within area
Eleocharis keigheryi Keighery's Eleocharis [64893]	Vulnerable	Species or species habitat likely to occur within area
Eucalyptus x balanites Cadda Road Mallee, Cadda Mallee [87816]	Endangered	Species or species habitat may occur within area
Grevillea christineae Christine's Grevillea [64520]	Endangered	Species or species habitat likely to occur

Name	Status	Type of Presence within area
Grevillea curviloba subsp. incurva Narrow curved-leaf Grevillea [64909]	Endangered	Species or species habitat likely to occur within area
Lasiopetalum pterocarpum Wing-fruited Lasiopetalum [64922]	Endangered	Species or species habitat may occur within area
Lepidosperma rostratum Beaked Lepidosperma [14152]	Endangered	Species or species habitat likely to occur within area
Macarthuria keigheryi Keighery's Macarthuria [64930]	Endangered	Species or species habitat likely to occur within area
Ptilotus pyramidatus Pyramid Mulla-mulla [18216]	Critically Endangered	Species or species habitat known to occur within area
Synaphea sp. Fairbridge Farm (D. Papenfus 696) Selena's Synaphea [82881]	Critically Endangered	Species or species habitat known to occur within area
Thelymitra dedmaniarum Cinnamon Sun Orchid [65105]	Endangered	Species or species habitat likely to occur within area
Thelymitra stellata Star Sun-orchid [7060]	Endangered	Species or species habitat known to occur within area
Trithuria occidentalis Swan Hydatella [42224]	Endangered	Species or species habitat likely to occur within area
Reptiles		
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area
Listed Migratory Species		[Resource Information]
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
Migratory Marine Birds		
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Diomedea amsterdamensis Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Species or species habitat likely to occur within area

Name	Threatened	Type of Presence
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Species or species habitat likely to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Thalassarche cauta Tasmanian Shy Albatross [89224]	Vulnerable*	Species or species habitat may occur within area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
Migratory Marine Species		
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area
Manta alfredi Reef Manta Ray, Coastal Manta Ray, Inshore Manta Ray, Prince Alfred's Ray, Resident Manta Ray [84994]		Species or species habitat may occur within area
Manta birostris Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		Species or species habitat may occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area
Migratory Terrestrial Species		
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat likely to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pandion haliaetus Osprey [952]		Breeding known to occur

Name	Threatened	Type of Presence within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Other Matters Protected by the EPBC Act

Commonwealth Land [\[Resource Information \]](#)

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

Name
Commonwealth Land - Defence - BUSHMEAD RIFLE RANGE Defence - BUSHMEAD TRAINING AREA Defence - PALMER BARRACKS - SOUTH GUILDFORD

Listed Marine Species [\[Resource Information \]](#)

* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
Birds		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area
Anous tenuirostris melanops Australian Lesser Noddy [26000]	Vulnerable	Species or species habitat may occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea alba Great Egret, White Egret [59541]		Breeding known to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat likely to occur within area

Name	Threatened	Type of Presence
Diomedea amsterdamensis Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Species or species habitat likely to occur within area
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Species or species habitat likely to occur within area
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Species or species habitat likely to occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pachyptila turtur Fairy Prion [1066]		Species or species habitat likely to occur within area
Pandion haliaetus Osprey [952]		Breeding known to occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat likely to occur within area
Thalassarche cauta Tasmanian Shy Albatross [89224]	Vulnerable*	Species or species habitat may occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
Thalassarche steadi White-capped Albatross [64462]	Vulnerable*	Species or species habitat likely to occur within area
Thinornis rubricollis Hooded Plover [59510]		Species or species habitat may occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species

Name	Threatened	Type of Presence
habitat likely to occur within area		
Reptiles		
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area

Extra Information

State and Territory Reserves	[Resource Information]
Name	State
Beelu	WA
Gooseberry Hill	WA
Greenmount	WA
John Forrest	WA
Kalamunda	WA
Kenwick Wetlands	WA
Korung	WA
Lesmurdie Falls	WA
NTWA Bushland covenant (0074)	WA
Talbot Road	WA
Unnamed WA23076	WA
Unnamed WA24657	WA
Unnamed WA29815	WA
Unnamed WA37997	WA
Unnamed WA45106	WA
Unnamed WA49079	WA

Regional Forest Agreements

[Resource Information]

Note that all areas with completed RFAs have been included.

Name	State
South West WA RFA	Western Australia

Invasive Species

[Resource Information]

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

Name	Status	Type of Presence
Birds		
Acridotheres tristis Common Myna, Indian Myna [387]		Species or species habitat likely to occur within area
Anas platyrhynchos Mallard [974]		Species or species habitat likely to occur

Name	Status	Type of Presence within area
Carduelis carduelis European Goldfinch [403]		Species or species habitat likely to occur within area
Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Passer domesticus House Sparrow [405]		Species or species habitat likely to occur within area
Passer montanus Eurasian Tree Sparrow [406]		Species or species habitat likely to occur within area
Streptopelia chinensis Spotted Turtle-Dove [780]		Species or species habitat likely to occur within area
Streptopelia senegalensis Laughing Turtle-dove, Laughing Dove [781]		Species or species habitat likely to occur within area
Sturnus vulgaris Common Starling [389]		Species or species habitat likely to occur within area
Turdus merula Common Blackbird, Eurasian Blackbird [596]		Species or species habitat likely to occur within area
Mammals		
Bos taurus Domestic Cattle [16]		Species or species habitat likely to occur within area
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Capra hircus Goat [2]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Feral deer Feral deer species in Australia [85733]		Species or species habitat likely to occur within area
Funambulus pennantii Northern Palm Squirrel, Five-striped Palm Squirrel [129]		Species or species habitat likely to occur within area
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Rattus norvegicus Brown Rat, Norway Rat [83]		Species or species habitat likely to occur within area
Rattus rattus Black Rat, Ship Rat [84]		Species or species habitat likely to occur

Name	Status	Type of Presence within area
Sus scrofa Pig [6]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Anredera cordifolia Madeira Vine, Jalap, Lamb's-tail, Mignonette Vine, Anredera, Gulf Madeiravine, Heartleaf Madeiravine, Potato Vine [2643]		Species or species habitat likely to occur within area
Asparagus aethiopicus Asparagus Fern, Ground Asparagus, Basket Fern, Sprengi's Fern, Bushy Asparagus, Emerald Asparagus [62425]		Species or species habitat likely to occur within area
Asparagus asparagoides Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		Species or species habitat likely to occur within area
Asparagus declinatus Bridal Veil, Bridal Veil Creeper, Pale Berry Asparagus Fern, Asparagus Fern, South African Creeper [66908]		Species or species habitat likely to occur within area
Asparagus plumosus Climbing Asparagus-fern [48993]		Species or species habitat likely to occur within area
Brachiaria mutica Para Grass [5879]		Species or species habitat may occur within area
Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]		Species or species habitat may occur within area
Chrysanthemoides monilifera Bitou Bush, Boneseed [18983]		Species or species habitat may occur within area
Chrysanthemoides monilifera subsp. monilifera Boneseed [16905]		Species or species habitat likely to occur within area
Eichhornia crassipes Water Hyacinth, Water Orchid, Nile Lily [13466]		Species or species habitat likely to occur within area
Genista linifolia Flax-leaved Broom, Mediterranean Broom, Flax Broom [2800]		Species or species habitat likely to occur within area
Genista monspessulana Montpellier Broom, Cape Broom, Canary Broom, Common Broom, French Broom, Soft Broom [20126]		Species or species habitat likely to occur within area
Genista sp. X Genista monspessulana Broom [67538]		Species or species habitat may occur within area
Lantana camara Lantana, Common Lantana, Kamara Lantana, Large-leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892]		Species or species habitat likely to occur within area
Lycium ferocissimum African Boxthorn, Boxthorn [19235]		Species or species habitat likely to occur within area
Olea europaea Olive, Common Olive [9160]		Species or species

Name	Status	Type of Presence
Opuntia spp. Prickly Pears [82753]		habitat may occur within area Species or species habitat likely to occur within area
Pinus radiata Radiata Pine Monterey Pine, Insignis Pine, Wilding Pine [20780]		Species or species habitat may occur within area
Protasparagus densiflorus Asparagus Fern, Plume Asparagus [5015]		Species or species habitat likely to occur within area
Protasparagus plumosus Climbing Asparagus-fern, Ferny Asparagus [11747]		Species or species habitat likely to occur within area
Rubus fruticosus aggregate Blackberry, European Blackberry [68406]		Species or species habitat likely to occur within area
Sagittaria platyphylla Delta Arrowhead, Arrowhead, Slender Arrowhead [68483]		Species or species habitat likely to occur within area
Salix spp. except S.babylonica, S.x calodendron & S.x reichardtii Willows except Weeping Willow, Pussy Willow and Sterile Pussy Willow [68497]		Species or species habitat likely to occur within area
Salvinia molesta Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba Weed [13665]		Species or species habitat likely to occur within area
Tamarix aphylla Athel Pine, Athel Tree, Tamarisk, Athel Tamarisk, Athel Tamarix, Desert Tamarisk, Flowering Cypress, Salt Cedar [16018]		Species or species habitat likely to occur within area
Reptiles		
Hemidactylus frenatus Asian House Gecko [1708]		Species or species habitat likely to occur within area
Ramphotyphlops braminus Flowerpot Blind Snake, Brahminy Blind Snake, Cacing Besi [1258]		Species or species habitat likely to occur within area

Nationally Important Wetlands		[Resource Information]
Name		State
Brixton Street Swamps		WA
Perth Airport Woodland Swamps		WA
Swan-Canning Estuary		WA

Caveat

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

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

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

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

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

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

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

- migratory and
- marine

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

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

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

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

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

Coordinates

-31.94587 116.01474

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.

DBCA Threatened and Priority Fauna Search Results

FAMILY	GENUS	SPECIES	SUBSP.	COMMON NAME	CONVS CODE	CLASS	CERTAINTY	METHOD	METH TYPE	COUNT	LOCALITY	SITE NAME	YEAR
Scincidae	Ctenotus	delli		Dell's skink	P4	REPTILE	WAM Vouchered	Collection	Specimen	1	GOOSEBERRY HILL	KALAMUNDA	1970
Scincidae	Ctenotus	delli		Dell's skink	P4	REPTILE	WAM Vouchered	Collection	Specimen	1	GOOSEBERRY HILL	GOOSEBERRY HILL	1985
Dasyuridae	Dasyurus	geoffroi		chuditch, western quoll	VU	MAMMAL	WAM Vouchered	Collection	Specimen	1	MIDLAND		1970
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	WAM Vouchered	Collection	Specimen	1	BOYA		1972
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	WAM Vouchered	Collection	Specimen	1	MAIDA VALE		0
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	WAM Vouchered	Collection	Specimen	1	HIGH WYCOMBE		1987
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	WAM Vouchered	Collection	Specimen	1	GOOSEBERRY HILL	GOOSEBERRY HILL ROAD, POST OFF	1961
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	WAM Vouchered	Collection	Specimen	1	MAIDA VALE	POST OFFICE	1899
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	WAM Vouchered	Collection	Specimen	1	HIGH WYCOMBE	KALAMUNDA ROAD	1964
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	WAM Vouchered	Collection	Specimen	1	HIGH WYCOMBE		1966
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	WAM Vouchered	Collection	Specimen	1	BOYA		1966
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	WAM Vouchered	Collection	Specimen	1	HAZELMERE		1966
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	WAM Vouchered	Collection	Specimen	1	GOOSEBERRY HILL	GOOSEBERRY HILL	1972
Dasyuridae	Phascogale	tapoatafa	wambenge	south-western brush-tailed phascogale	CD	MAMMAL	WAM Vouchered	Collection	Specimen	1	KALAMUNDA		1979
Cacatuidae	Calyptorhynchus	baudinii		Baudin's cockatoo	EN	BIRD	WAM Vouchered	Collection	Specimen	1	HAZELMERE	Helena Valley; CSIRO Aviary, Clayton f	1981
Psittacidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	WAM Vouchered	Collection	Specimen	1	MIDLAND	Mundaring; Watsons Road just north	1972
Psittacidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	WAM Vouchered	Collection	Specimen	1	MIDLAND	Mundaring; Watsons Road just north	1972
Psittacidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	WAM Vouchered	Collection	Specimen	1	MIDLAND	Mundaring; Watsons Road just north	1972
Psittacidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	WAM Vouchered	Collection	Specimen	1	MIDLAND	Mundaring; Watsons Road just north	1972
Psittacidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	WAM Vouchered	Collection	Specimen	1	HAZELMERE	Helena Valley; CSIRO Clayton Road	1981
Psittacidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	WAM Vouchered	Collection	Specimen	1	GOOSEBERRY HILL	Gooseberry Hill	2003
Psittacidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	WAM Vouchered	Collection	Specimen	1	MAIDA VALE	High Wycombe	2003
Psittacidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	WAM Vouchered	Collection	Specimen	1	MAIDA VALE	Seaview Terrace Kalamunda	2007
Cacatuidae	Calyptorhynchus	banksii	naso	forest red-tailed black cockatoo	VU	BIRD	Certain	Opportunistic sighting	Day sighting	30	HIGH WYCOMBE	High Wycombe area	2012
Cacatuidae	Calyptorhynchus	banksii	naso	forest red-tailed black cockatoo	VU	BIRD	Certain	Opportunistic sighting	Day sighting	6	HIGH WYCOMBE	285 Beacon Rd, Parkerville - High wyco	2013
Cacatuidae	Calyptorhynchus	banksii	naso	forest red-tailed black cockatoo	VU	BIRD	Moderately certain	Community survey	Day sighting	25	HIGH WYCOMBE	in area around junction of Brae & Stew	2014
Cacatuidae	Calyptorhynchus	banksii	naso	forest red-tailed black cockatoo	VU	BIRD	Moderately certain	Community survey	Dusk sighting	4	HELENA VALLEY	MUNHEL001	2016
Cacatuidae	Calyptorhynchus	banksii	naso	forest red-tailed black cockatoo	VU	BIRD	Moderately certain	Community survey	Dusk sighting	3	MAIDA VALE	KALMAIR005	2016
Cacatuidae	Calyptorhynchus	banksii	naso	forest red-tailed black cockatoo	VU	BIRD	Moderately certain	Community survey	Dusk sighting	56	HIGH WYCOMBE	KALMAIR002	2016
Cacatuidae	Calyptorhynchus	baudinii		Baudin's cockatoo	EN	BIRD	Very certain	Regular monitoring	Remote sensing	1	MAIDA VALE	Along Hawtin Road	2015
Cacatuidae	Calyptorhynchus	baudinii		Baudin's cockatoo	EN	BIRD	Very certain	Regular monitoring	Remote sensing	1	MAIDA VALE	PP near Dampiera Court	2015
Cacatuidae	Calyptorhynchus	baudinii		Baudin's cockatoo	EN	BIRD	Very certain	Regular monitoring	Remote sensing	1	MAIDA VALE	PP at the end of Dampiera Crt	2015
Cacatuidae	Calyptorhynchus	baudinii		Baudin's cockatoo	EN	BIRD	Very certain	Regular monitoring	Remote sensing	1	MAIDA VALE	PP at the end of Dampiera Crt	2015
Cacatuidae	Calyptorhynchus	baudinii		Baudin's cockatoo	EN	BIRD	Very certain	Regular monitoring	Remote sensing	1	MAIDA VALE	Block between Brewer Road and Hawti	2015
Cacatuidae	Calyptorhynchus	baudinii		Baudin's cockatoo	EN	BIRD	Very certain	Regular monitoring	Remote sensing	1	MAIDA VALE	Block b/w Brewer Rd & Hawtin Rd	2015
Cacatuidae	Calyptorhynchus	baudinii		Baudin's cockatoo	EN	BIRD	Very certain	Regular monitoring	Remote sensing	1	MAIDA VALE	Block between Bruce Road and Brewer	2015
Cacatuidae	Calyptorhynchus	baudinii		Baudin's cockatoo	EN	BIRD	Very certain	Regular monitoring	Remote sensing	1	MAIDA VALE	Block between Norwood Road and Mau	2015
Cacatuidae	Calyptorhynchus	baudinii		Baudin's cockatoo	EN	BIRD	Very certain	Regular monitoring	Remote sensing	1	MAIDA VALE	Block b/w Norwood Rd & Maud Rd	2015
Cacatuidae	Calyptorhynchus	baudinii		Baudin's cockatoo	EN	BIRD	Very certain	Regular monitoring	Remote sensing	1	MAIDA VALE	PP b/w Brewer Rd & Arundel Crt	2015
Cacatuidae	Calyptorhynchus	baudinii		Baudin's cockatoo	EN	BIRD	Very certain	Regular monitoring	Remote sensing	1	MAIDA VALE	PP between Quenington Court and Har	2015
Cacatuidae	Calyptorhynchus	baudinii		Baudin's cockatoo	EN	BIRD	Very certain	Regular monitoring	Remote sensing	1	MAIDA VALE	PP b/w Quenington Court & Harold Wa	2015
Cacatuidae	Calyptorhynchus	baudinii		Baudin's cockatoo	EN	BIRD	Very certain	Regular monitoring	Remote sensing	1	MAIDA VALE	PP between Quenington Court and Har	2015
Cacatuidae	Calyptorhynchus	baudinii		Baudin's cockatoo	EN	BIRD	Very certain	Regular monitoring	Remote sensing	1	HIGH WYCOMBE	Treeline along Roe Hwy	2015
Cacatuidae	Calyptorhynchus	baudinii		Baudin's cockatoo	EN	BIRD	Very certain	Regular monitoring	Remote sensing	1	HIGH WYCOMBE	PP b/w Stewart Rd & Brae Rd	2015
Cacatuidae	Calyptorhynchus	baudinii		Baudin's cockatoo	EN	BIRD	Very certain	Regular monitoring	Remote sensing	1	MAIDA VALE	Side of Oxford Court	2015
Cacatuidae	Calyptorhynchus	baudinii		Baudin's cockatoo	EN	BIRD	Very certain	Regular monitoring	Remote sensing	1	MAIDA VALE	PP above Cootamundra Road	2015
Cacatuidae	Calyptorhynchus	baudinii		Baudin's cockatoo	EN	BIRD	Very certain	Regular monitoring	Remote sensing	1	HIGH WYCOMBE	PP above Raven Street	2015
Cacatuidae	Calyptorhynchus	baudinii		Baudin's cockatoo	EN	BIRD	Very certain	Regular monitoring	Remote sensing	1	MAIDA VALE	PP around Lilian Road	2015
Cacatuidae	Calyptorhynchus	baudinii		Baudin's cockatoo	EN	BIRD	Very certain	Regular monitoring	Remote sensing	1	HIGH WYCOMBE	Green stretch above Stewart Rd & Miln	2015
Cacatuidae	Calyptorhynchus	baudinii		Baudin's cockatoo	EN	BIRD	Very certain	Regular monitoring	Remote sensing	1	HIGH WYCOMBE	Green stretch above Stewart Rd & Miln	2015
Cacatuidae	Calyptorhynchus	baudinii		Baudin's cockatoo	EN	BIRD	Very certain	Regular monitoring	Remote sensing	1	HIGH WYCOMBE	Side of Roe highway above Maida Vale	2015

FAMILY	GENUS	SPECIES	SUBSP.	COMMON NAME	CONVS CODE	CLASS	CERTAINTY	METHOD	METH TYPE	COUNT	LOCALITY	SITE NAME	YEAR
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Monitoring	Secondary sign	1	FORRESTFIELD	Forrestfield, Dept of Agriculture Land	2010
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Monitoring	Secondary sign	1	FORRESTFIELD	Forrestfield, Dept of Agriculture Land	2010
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Monitoring	Secondary sign	1	FORRESTFIELD	Forrestfield, Dept of Agriculture Land	2010
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Monitoring	Secondary sign	1	FORRESTFIELD	Forrestfield, Dept of Agriculture Land	2010
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Monitoring	Secondary sign	1	FORRESTFIELD	Forrestfield, Dept of Agriculture Land	2010
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Monitoring	Secondary sign	1	FORRESTFIELD	Forrestfield, Dept of Agriculture Land	2010
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Monitoring	Secondary sign	1	FORRESTFIELD	Forrestfield, Dept of Agriculture Land	2010
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Monitoring	Secondary sign	1	FORRESTFIELD	Forrestfield, Dept of Agriculture Land	2010
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Monitoring	Secondary sign	1	FORRESTFIELD	Forrestfield, Dept of Agriculture Land	2010
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Monitoring	Secondary sign	1	FORRESTFIELD	Forrestfield, Dept of Agriculture Land	2010
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Monitoring	Secondary sign	1	FORRESTFIELD	Forrestfield, Dept of Agriculture Land	2010
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Monitoring	Secondary sign	1	FORRESTFIELD	Forrestfield, Dept of Agriculture Land	2010
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Monitoring	Secondary sign	1	FORRESTFIELD	Forrestfield, Dept of Agriculture Land	2010
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Monitoring	Secondary sign	1	FORRESTFIELD	Forrestfield, Dept of Agriculture Land	2010
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Monitoring	Secondary sign	1	FORRESTFIELD	Forrestfield, Dept of Agriculture Land	2010
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Monitoring	Secondary sign	1	FORRESTFIELD	Forrestfield, Dept of Agriculture Land	2010
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Monitoring	Secondary sign	1	FORRESTFIELD	Forrestfield, Dept of Agriculture Land	2010
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Monitoring	Secondary sign	1	FORRESTFIELD	Forrestfield, Dept of Agriculture Land	2010
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Monitoring	Secondary sign	1	FORRESTFIELD	Forrestfield, Dept of Agriculture Land	2010
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Monitoring	Secondary sign	1	FORRESTFIELD	Forrestfield, Dept of Agriculture Land	2010
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Monitoring	Secondary sign	1	FORRESTFIELD	Forrestfield, Dept of Agriculture Land	2010
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Survey	Day sighting	40	BELLEVUE	Bellevue	2007
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Survey	Day sighting	40	BELLEVUE	Bellevue	2007
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Survey	Day sighting	2	BELLEVUE	Bellevue	2009
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Survey	Day sighting	2	BELLEVUE	Bellevue	2009
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Survey	Day sighting	50	BELLEVUE	Bellevue	2009
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Survey	Day sighting	10	BELLEVUE	Bellevue	2009
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Moderately certain	Community survey	Day sighting	124	HELENA VALLEY	3945 Helena Valley Rd	2014
Dasyuridae	Dasyurus	geoffroi		chuditch, western quoll	VU	MAMMAL	Not sure	Opportunistic sighting	Sighting	1	BUSHMEAD	Bushmead Rifle Range	1991
Peramelidae	Dasyurus	geoffroi		chuditch, western quoll	VU	MAMMAL	Certain	Opportunistic sighting	Dusk sighting	1	BUSHMEAD	Bushmeade Commonwealth Land	1989
Dasyuridae	Dasyurus	geoffroi		chuditch, western quoll	VU	MAMMAL	Certain	Opportunistic sighting	Dead	1	HAZELMERE	Jnt. Roe Hwy and Gt. Eastern Hwy byp	1999
Dasyuridae	Dasyurus	geoffroi		chuditch, western quoll	VU	MAMMAL	Certain	Opportunistic sighting	Day sighting	1	MAIDA VALE	cnr Midland Rd & Sadler Drive at Maida	2003
Dasyuridae	Dasyurus	geoffroi		chuditch, western quoll	VU	MAMMAL	Certain	Opportunistic sighting	Dead	1	MAIDA VALE	coner of Midland Rd and Sadler Drive a	2003
Dasyuridae	Dasyurus	geoffroi		chuditch, western quoll	VU	MAMMAL	Very certain	Opportunistic sighting	Dead	1	GOOSEBERRY HILL	19A Parke Road, Gooseberry Hill	2017
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Opportunistic sighting	Sighting	1	FORRESTFIELD	Lots 163 & 164 Holmes Rd, Forrestfield	1993
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Opportunistic sighting	Sighting	1	BUSHMEAD	Bushmead Rifle Range.	1992
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Opportunistic sighting	Sighting	3	KALAMUNDA	119 Kalamunda Rd, Kalamunda.	1976
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Opportunistic sighting	Sighting	11	BUSHMEAD	Bushmead Rifle Range	1991
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Opportunistic sighting	Dead	1	HELENA VALLEY	Helena Valley Road, Helena Valley	1999
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Opportunistic sighting	Dead	1	HAZELMERE	Roe Hwy, 300m S of Helena River	2004
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Opportunistic sighting	Dead	1	KALAMUNDA	Kalamunda Road, 500m west of Davies	2005
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Opportunistic sighting	Sighting	1	HIGH WYCOMBE	78 Lambertia Crescent, High Wycombe	2005
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Opportunistic sighting	Dead	1	HAZELMERE	Great Eastern Highway Bypass, 300m v	2006
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Opportunistic sighting	Dead	1	HIGH WYCOMBE	Roe Hwy, 3.1km north of Tonkin Hwy, s	2006
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Opportunistic sighting	Dead	1	MAIDA VALE	Roe Hwy northbound at beginning of tu	2006
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Opportunistic sighting	Secondary sign	8	FORRESTFIELD	354 Hawtin Rd, Forrestfield	2006
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Opportunistic sighting	Dead	1	HIGH WYCOMBE	Roe Hwy where Maida Vale Rd slip lane	2006
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Opportunistic sighting	Dead	1	HAZELMERE	Roe Hwy under bridge overpass for Bus	2007
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Opportunistic sighting	Dead	1	HAZELMERE	Great Eastern Highway Bypass under t	2007
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Opportunistic sighting	Day sighting	1	GOOSEBERRY HILL	John Farrant Drive Gooseberry Hill	2008
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Opportunistic sighting	Day sighting	1	HELENA VALLEY	Helena Valley Boya area	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Opportunistic sighting	Day sighting	4	GOOSEBERRY HILL	29 Davies Crescent, Gooseberry Hill	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Opportunistic sighting	Day sighting	1	GOOSEBERRY HILL	Opposite 14 Dale Drive Gooseberry Hill	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Not sure	Opportunistic sighting	Secondary sign	0	MAIDA VALE	44 Booralie Way Maida Vale	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Opportunistic sighting	Night sighting	1	GOOSEBERRY HILL	14 Dale Drive Gooseberry Hill	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Opportunistic sighting	Day sighting	1	GOOSEBERRY HILL	Corner of Sundew Road and Hobbs roa	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Opportunistic sighting	Day sighting	8	MAIDA VALE	Brewer Road, Maida Vale	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Opportunistic sighting	Day sighting	1	GOOSEBERRY HILL	18 Dale drive, Gooseberry Hill	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Opportunistic sighting	Day sighting	6	MAIDA VALE	291 Sultana Rd East High Wycombe	2012

FAMILY	GENUS	SPECIES	SUBSP.	COMMON NAME	CONVS CODE	CLASS	CERTAINTY	METHOD	METH TYPE	COUNT	LOCALITY	SITE NAME	YEAR
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Opportunistic sighting	Day sighting	1	FORRESTFIELD	Dawson Park Primary School	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Night sighting	1	FORRESTFIELD	Close to Perth International Airport (Du	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Night sighting	3	FORRESTFIELD	9 Peach Road, Forrestfield and Sultana	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Opportunistic sighting	Night sighting	1	FORRESTFIELD	332 Holmes Rd, Forrestfield	2014
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Day sighting	1	KALAMUNDA	15 Carramar Drive, Kalamunda	2011
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Day sighting	3	GOOSEBERRY HILL	18 The Getaway	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	2	GOOSEBERRY HILL	8-12 Landor Road.	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	3	GOOSEBERRY HILL	32 Peoples avenue	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	1	BOYA	24 Leewood Cres	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	3	GOOSEBERRY HILL	Gray Road	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Day sighting	1	FORRESTFIELD	117 Berkshire Road	2011
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	2	GOOSEBERRY HILL	6 Gooseberry Hill Road	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Day sighting	1	GOOSEBERRY HILL	Railway reserve between Ledger and Te	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	1	GOOSEBERRY HILL	10 John Street	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Day sighting	1	GOOSEBERRY HILL	61 Gooseberry Hill Road	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	3	GOOSEBERRY HILL	28 Noel Road	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Secondary sign	1	GOOSEBERRY HILL	56 Watsonia road	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	3	GOOSEBERRY HILL	47 Girrawheen Drive	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	1	GOOSEBERRY HILL	43 Noel Road Gooseberry Hill	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	2	GOOSEBERRY HILL	47 Goosberry Hill Road, Gooseberry Hi	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Day sighting	3	GOOSEBERRY HILL	Dale Drive (didn't want to give street n	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	1	FORRESTFIELD	234 Sultana Rd, Forrestfield	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	2	HIGH WYCOMBE	52 Brand Rd, High Wycombe	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	20	MAIDA VALE	20 Casuarina Rd, Maida Vale	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Dead	2	KALAMUNDA	53 Snowball Rd, Kalamunda	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	4	HAZELMERE	99/219 Midland Rd, Hazelmere	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Day sighting	10	MAIDA VALE	32 Maud Rd, Maida Vale	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	2	GOOSEBERRY HILL	15 Peoples Ave, Gooseberry Hill	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Secondary sign	3	GOOSEBERRY HILL	7 Robertson Rd, Gooseberry Hill	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Dead	1	GOOSEBERRY HILL	Crn Gooseberry Hill Rd & Hermes Rd	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Day sighting	1	GOOSEBERRY HILL	south west side of the roundabout corn	2011
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Day sighting	1	GOOSEBERRY HILL	Darling Range Regional Park	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Day sighting	7	GOOSEBERRY HILL	4 Currawong Drive, Gooseberry Hill	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Day sighting	1	HELENA VALLEY	36 Fredrick St, Helena Valley	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Day sighting	2	FORRESTFIELD	25 Coronilla Way, Forrestfield	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Day sighting	5	MAIDA VALE	143 Brien Rd, Maida Vale	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	1	FORRESTFIELD	100 Bougainvillea Avenue, Forrestfield	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Day sighting	1	GOOSEBERRY HILL	4 Sundew Rd, Gooseberry Hill	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Dead	1	GOOSEBERRY HILL	11 Arthur Rd, Gooseberry Hill	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Day sighting	4	GOOSEBERRY HILL	66 Davies Crescent, Gooseberry Hill	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	12	HIGH WYCOMBE	9 Raven St, High Wycombe	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Night sighting	2	MAIDA VALE	33 Holmes Rd, Maida Vale	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Secondary sign	6	MAIDA VALE	21 Casuarina Rd, Maida Vale	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Day sighting	2	KALAMUNDA	27 Brie Crescent, Kalamunda	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	1	MAIDA VALE	125 Watsonia Rd, Maida Vale	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	1	HAZELMERE	Adelaide St, Hazelmere	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Secondary sign	1	GOOSEBERRY HILL	15 Robertson Rd, Gooseberry Hill	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	8	GOOSEBERRY HILL	10 College Rd, Gooseberry Hill	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Dead	2	KALAMUNDA	Given Coordinates	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Night sighting	4	KALAMUNDA	13 Carramar Drive, Kalamunda. Near M	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Dead	15	GOOSEBERRY HILL	7-9 Gooseberry Hill Rd, Gooseberry Hill	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	7	MAIDA VALE	28 Kent Rd, Maida Vale	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	5	GOOSEBERRY HILL	The Boulevard, Gooseberry Hill	2012

FAMILY	GENUS	SPECIES	SUBSP.	COMMON NAME	CONVS CODE	CLASS	CERTAINTY	METHOD	METH TYPE	COUNT	LOCALITY	SITE NAME	YEAR
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Night sighting	4	GOOSEBERRY HILL	36 Watsonia Rd, Gooseberry Hill	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	4	KALAMUNDA	14 Nangana Way, Kalamunda	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	1	KALAMUNDA	123 Kalamunda Rd, Kalamunda	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	6	GOOSEBERRY HILL	10 Faye Crescent, Gooseberry Hill	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Dead	12	GOOSEBERRY HILL	2 Healey Place, Gooseberry Hill	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Dead	2	HIGH WYCOMBE	Dundas Rd near Soransen Rd nearrailw	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Day sighting	6	GOOSEBERRY HILL	46 Davies Crescent, Gooseberry Hill	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	100	GOOSEBERRY HILL	26 Sundew Rd, Gooseberry Hill	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Dead	2	GOOSEBERRY HILL	20 Watsonia Rd, Gooseberry Hill	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Dead	2	HIGH WYCOMBE	174 Maida Vale Rd, High Wycombe	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	1	MAIDA VALE	17 Casuarina Road, Maida Vale	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Dead	1	HIGH WYCOMBE	Roe Hwy heading down from High Wyc	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	10	GOOSEBERRY HILL	17 Noel Rd, Gooseberry Hill	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	12	KALAMUNDA	7 Persimmon Place, Kalamunda	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	5	HIGH WYCOMBE	12 Brand Road, High Wycombe	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Night sighting	2	HIGH WYCOMBE	20 Sundew Rd, High Wycombe	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	4	HAZELMERE	Hazelmere Lake, next to 169 Hazelmere	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	7	KALAMUNDA	44 Brine Rd, Kalamunda	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Night sighting	20	HAZELMERE	133 Arum Lily Place, Hazelmere	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Dead	6	MAIDA VALE	11 Terrigal Place, Maida Vale	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Day sighting	1	MAIDA VALE	Block bordering Poison Gully, Maida Va	2007
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Day sighting	1	MAIDA VALE	Norwood Reserve, Maida Vale	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Day sighting	1	KALAMUNDA	98 Heath Rd, Kalamunda	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	1	FORRESTFIELD	Dawson Ave, Forrestfield	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	4	MAIDA VALE	40 Holmes Rd, Maida Vale	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Dead	3	HIGH WYCOMBE	60 Brae Road, High Wycombe	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Dead	5	GOOSEBERRY HILL	6 Landsdowne Rd, Gooseberry Hill	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Dead	2	GOOSEBERRY HILL	40 Peoples Ave, Gooseberry Hill	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	2	GOOSEBERRY HILL	18 Dale Drive, Gooseberry Hill	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	2	HIGH WYCOMBE	63 Brae Road, High Wycombe	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	6	MAIDA VALE	176 Brewer Road, Maida Vale	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	2	GOOSEBERRY HILL	59 Davies Crescent, Gooseberry Hill	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	7	FORRESTFIELD	9 Pearce Ave, Forrestfield	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	12	GOOSEBERRY HILL	1 Sundew Road, Gooseberry Hill	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Day sighting	4	GOOSEBERRY HILL	10 Jaraba Avenue, Gooseberry Hill	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	6	HIGH WYCOMBE	High Wycombe -Only Suburb Given	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	1	PERTH AIRPORT	In bushes at the edge of the car park of	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Community survey	Day sighting	2	MAIDA VALE	51 Norwood Road, Maida Vale	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Opportunistic sighting	Day sighting	1	HAZELMERE	Banksia Tourist Park, Midland	2014
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Opportunistic sighting	Night sighting	1	HAZELMERE	25 Oxley Rd in Darlington	2014
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Opportunistic sighting	Day sighting	1	KALAMUNDA	View Way, Kalamunda	2015
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Opportunistic sighting	Night sighting	1	BELLEVUE	1 Harcourt Place, Bellevue	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Secondary sign	0	GOOSEBERRY HILL	61 Gooseberry Hill Road	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Secondary sign	0	GOOSEBERRY HILL	61 Gooseberry Hill Road	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	1	GOOSEBERRY HILL	15 Robertson Road	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	1	GOOSEBERRY HILL	Quenda Creek Nature Reserve & Wildli	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	1	KALAMUNDA	6 Harbour Road	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	1	GOOSEBERRY HILL	18 Dale Drive	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	2	KALAMUNDA	27 Brie Brie Crescent	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	2	GOOSEBERRY HILL	10 Jaraba Avenue	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	3	KALAMUNDA	44 Brine Road	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	3	GOOSEBERRY HILL	10 Jaraba Avenue	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	4	KALAMUNDA	14 Nangana Way	2013

FAMILY	GENUS	SPECIES	SUBSP.	COMMON NAME	CONVS CODE	CLASS	CERTAINTY	METHOD	METH TYPE	COUNT	LOCALITY	SITE NAME	YEAR
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	4	KALAMUNDA	14 Nangana Way	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	5	GOOSEBERRY HILL	10 Jaraba Avenue	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	6	MAIDA VALE	143 Brewer Road	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	9	KALAMUNDA	In nature reserve behind 18 Brie Brie C	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	11	GOOSEBERRY HILL	18 The Getaway	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	53	MAIDA VALE	32 Maud Road	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	8	GOOSEBERRY HILL	18 The Getaway	2014
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	1	GOOSEBERRY HILL	61 Gooseberry Hill Road	2014
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	1	GOOSEBERRY HILL	61 Gooseberry Hill Road	2014
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	6	KALAMUNDA	91 Kalamunda Road	2014
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	2	GOOSEBERRY HILL	30 Peoples Ave	2014
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	4	MAIDA VALE	32 Maud Road	2014
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	5	KALAMUNDA	27 Brie Brie Crescent	2014
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	6	KALAMUNDA	14 Nangana Way	2014
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	3	KALAMUNDA	44 Brine Road	2014
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	3	GOOSEBERRY HILL	40 Peoples Ave	2014
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	1	GOOSEBERRY HILL	18 Dale Drive	2014
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Community survey	Day sighting	1	GOOSEBERRY HILL	10 Jaraba Avenue	2014
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Opportunistic sighting	Day sighting	5	GOOSEBERRY HILL	46 Davies Crescent, Gooseberry Hill	2015
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Moderately certain	Opportunistic sighting	Sighting	1	FORRESTFIELD	17 Gimlet Court, Forrestfield	2016
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Very certain	Opportunistic sighting	Dead	1	GOOSEBERRY HILL	zig zag track on Gooseberry Hill	2016
Meropidae	Merops	ornatus		rainbow bee-eater	IA	BIRD	Certain	Historical (written)	Sighting	8	HAZELMERE	Site details not provided, unable to veri	1994
Meropidae	Merops	ornatus		rainbow bee-eater	IA	BIRD	Certain	Historical (written)	Sighting	2	HAZELMERE	Site details not provided, unable to veri	1995
Meropidae	Merops	ornatus		rainbow bee-eater	IA	BIRD	Certain	Historical (written)	Sighting	2	HAZELMERE	Site details not provided, unable to veri	1995
Meropidae	Merops	ornatus		rainbow bee-eater	IA	BIRD	Certain	Historical (written)	Sighting	1	HAZELMERE	Site details not provided, unable to veri	1992
Meropidae	Merops	ornatus		rainbow bee-eater	IA	BIRD	Certain	Historical (written)	Sighting	1	PERTH AIRPORT	Site details not provided, unable to veri	1996
Meropidae	Merops	ornatus		rainbow bee-eater	IA	BIRD	Certain	Historical (written)	Sighting	2	PERTH AIRPORT	Site details not provided, unable to veri	1996
Meropidae	Merops	ornatus		rainbow bee-eater	IA	BIRD	Certain	Historical (written)	Sighting	1	PERTH AIRPORT	Site details not provided, unable to veri	1995
Accipitridae	Pandion	haliaetus		osprey	IA	BIRD	Certain	Historical (written)	Historical record	2	PERTH AIRPORT	Site details not provided, unable to veri	1995
Accipitridae	Pandion	haliaetus		osprey	IA	BIRD	Certain	Historical (written)	Historical record	2	PERTH AIRPORT	Site details not provided, unable to veri	1995
Accipitridae	Pandion	haliaetus		osprey	IA	BIRD	Certain	Historical (written)	Historical record	1	PERTH AIRPORT	Site details not provided, unable to veri	1994
Cacatuidae	Calyptorhynchus	banksii	naso	forest red-tailed black cockatoo	VU	BIRD	Certain	Survey	Unknown	2	HAZELMERE	Lower Helena, Lower Helena	2012
Cacatuidae	Calyptorhynchus	banksii	naso	forest red-tailed black cockatoo	VU	BIRD	Certain	Survey	Unknown	6	HAZELMERE	Lower Helena, Talbot Rd	2015
Cacatuidae	Calyptorhynchus	banksii	naso	forest red-tailed black cockatoo	VU	BIRD	Certain	Survey	Unknown	1	HAZELMERE	Lower Helena, Talbot Rd	2015
Cacatuidae	Calyptorhynchus	latirostris		Carnaby's cockatoo	EN	BIRD	Certain	Survey	Unknown	6	HELENA VALLEY	Lower Helena, Talbot Rd	2015
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Survey	Unknown	1	PERTH AIRPORT	Guildford, Abernathy Rd	2012
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Survey	Unknown	1	PERTH AIRPORT	High Wycombe, Abernathy Road	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Survey	Unknown	1	PERTH AIRPORT	High Wycombe, Abernathy Road	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Survey	Unknown	1	PERTH AIRPORT	High Wycombe, Abernathy Road	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Survey	Unknown	1	PERTH AIRPORT	High Wycombe, Abernathy Road	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Survey	Unknown	1	PERTH AIRPORT	High Wycombe, Abernathy Road	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Survey	Unknown	1	GOOSEBERRY HILL	PerthHills, Gooseberry Hill	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Survey	Unknown	1	KALAMUNDA	PerthHills, Gooseberry Hill	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Survey	Unknown	1	GOOSEBERRY HILL	PerthHills, Gooseberry Hill	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Survey	Unknown	27	PERTH AIRPORT	PerthAirport,	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Survey	Unknown	3	GOOSEBERRY HILL	GooseberryHill,	2013
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Survey	Unknown	1	PERTH AIRPORT	Perth Airport, Perth Airport	2014
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Survey	Unknown	1	PERTH AIRPORT	Perth Airport, Perth Airport	2014
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Survey	Unknown	1	PERTH AIRPORT	Perth Airport, Perth Airport	2014
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Survey	Unknown	1	PERTH AIRPORT	Perth Airport, Perth Airport	2014
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Survey	Unknown	1	PERTH AIRPORT	Perth Airport, Perth Airport	2014
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Survey	Unknown	1	PERTH AIRPORT	Perth Airport, Perth Airport	2014
Peramelidae	Isoodon	obesulus	fusciventer	quenda, southern brown bandicoot	P4	MAMMAL	Certain	Survey	Unknown	1	PERTH AIRPORT	Perth Airport, Perth Airport	2014

FAMILY	GENUS	SPECIES	SUBSP.	COMMON NAME	CONVS CODE	CLASS	CERTAINTY	METHOD	METH TYPE	COUNT	LOCALITY	SITE NAME	YEAR
Cacatuidae	<i>Calyptorhynchus</i>	<i>latirostris</i>		Carnaby's cockatoo	EN	BIRD	Moderately certain	Observational	Sighting	1	GOOSEBERRY HILL	8 Landor Road, Gooseberry Hill	1999
Cacatuidae	<i>Calyptorhynchus</i>	<i>latirostris</i>		Carnaby's cockatoo	EN	BIRD	Moderately certain	Observational	Sighting	1	GOOSEBERRY HILL	8 Landor Road, Gooseberry Hill	1999
Cacatuidae	<i>Calyptorhynchus</i>	<i>latirostris</i>		Carnaby's cockatoo	EN	BIRD	Moderately certain	Observational	Sighting	1	GOOSEBERRY HILL	8 Landor Road, Gooseberry Hill	1999
Cacatuidae	<i>Calyptorhynchus</i>	<i>latirostris</i>		Carnaby's cockatoo	EN	BIRD	Moderately certain	Observational	Sighting	1	GOOSEBERRY HILL	8 Landor Road, Gooseberry Hill	2000
Cacatuidae	<i>Calyptorhynchus</i>	<i>latirostris</i>		Carnaby's cockatoo	EN	BIRD	Moderately certain	Observational	Sighting	1	GOOSEBERRY HILL	Landor Road, Gooseberry Hill	2000
Falconidae	<i>Falco</i>	<i>peregrinus</i>		peregrine falcon	OS	BIRD	Moderately certain	Observational	Sighting	1	HELENA VALLEY	Boya Quarry	2001
Meropidae	<i>Merops</i>	<i>ornatus</i>		rainbow bee-eater	IA	BIRD	Moderately certain	Observational	Sighting	1	HIGH WYCOMBE	Ollie Worrell Reserve, High Wycombe	2001
Meropidae	<i>Merops</i>	<i>ornatus</i>		rainbow bee-eater	IA	BIRD	Moderately certain	Observational	Sighting	1	HIGH WYCOMBE	Markham St Reserve	2005
Meropidae	<i>Merops</i>	<i>ornatus</i>		rainbow bee-eater	IA	BIRD	Moderately certain	Observational	Sighting	1	MAIDA VALE	Crumpet Creek Reserve - Sultana to H	2006
Meropidae	<i>Merops</i>	<i>ornatus</i>		rainbow bee-eater	IA	BIRD	Moderately certain	Observational	Sighting	1	GOOSEBERRY HILL	8 Landor Road, Gooseberry Hill	1998
Meropidae	<i>Merops</i>	<i>ornatus</i>		rainbow bee-eater	IA	BIRD	Moderately certain	Observational	Sighting	1	GOOSEBERRY HILL	8 Landor Road, Gooseberry Hill	2001
Meropidae	<i>Merops</i>	<i>ornatus</i>		rainbow bee-eater	IA	BIRD	Moderately certain	Observational	Sighting	1	GOOSEBERRY HILL	8 Landor Road, Gooseberry Hill	2001
Meropidae	<i>Merops</i>	<i>ornatus</i>		rainbow bee-eater	IA	BIRD	Moderately certain	Observational	Sighting	1	GOOSEBERRY HILL	Landor Road	2003
Meropidae	<i>Merops</i>	<i>ornatus</i>		rainbow bee-eater	IA	BIRD	Moderately certain	Observational	Sighting	1	GOOSEBERRY HILL	8 Landor Road	2003
Meropidae	<i>Merops</i>	<i>ornatus</i>		rainbow bee-eater	IA	BIRD	Moderately certain	Observational	Sighting	1	HAZELMERE	Lkae, Hazelmere	1999
Meropidae	<i>Merops</i>	<i>ornatus</i>		rainbow bee-eater	IA	BIRD	Moderately certain	Observational	Sighting	1	PERTH AIRPORT	Hazelmere Effluent Ponds	2008
Meropidae	<i>Merops</i>	<i>ornatus</i>		rainbow bee-eater	IA	BIRD	Moderately certain	Observational	Sighting	1	PERTH AIRPORT	Hazelmere Effluent Ponds	2008
Meropidae	<i>Merops</i>	<i>ornatus</i>		rainbow bee-eater	IA	BIRD	Moderately certain	Observational	Sighting	1	PERTH AIRPORT	Hazelmere Effluent Ponds	2008
Meropidae	<i>Merops</i>	<i>ornatus</i>		rainbow bee-eater	IA	BIRD	Moderately certain	Observational	Sighting	1	GOOSEBERRY HILL	8 Landor Road, Gooseberry Hill	1999
Meropidae	<i>Merops</i>	<i>ornatus</i>		rainbow bee-eater	IA	BIRD	Moderately certain	Observational	Sighting	1	MAIDA VALE	Hillview Golf Course	2000
Meropidae	<i>Merops</i>	<i>ornatus</i>		rainbow bee-eater	IA	BIRD	Moderately certain	Observational	Sighting	1	HIGH WYCOMBE	Ollie Worrell Res.	1999
Anatidae	<i>Oxyura</i>	<i>australis</i>		blue-billed duck	P4	BIRD	Moderately certain	Observational	Sighting	1	HAZELMERE	Lake, Hazelmere	1999
Anatidae	<i>Oxyura</i>	<i>australis</i>		blue-billed duck	P4	BIRD	Moderately certain	Observational	Sighting	1	HAZELMERE	Lkae, Hazelmere	1999

Vertebrate Fauna Desktop Omissions

Marine Reptiles

A number of marine turtles were returned from the database searches, mainly from the EPBC PMST. The Survey Areas do not contain marine habitat, as such, these species have been omitted from any further discussion.

Waterbirds and Marine Listed Birds

Wetland avifauna such as wading birds, including Plovers, Stilts, Sandpipers and Godwits inhabit estuaries, mudflats, saltmarshes, sandflats and beaches, where they feed on invertebrates such as worms, molluscs, insects and crustaceans (Garnett *et al.* 2011). This habitat is not present in the Survey Area and as such, these species have been omitted from any further discussion.

A number of coastal birds were also returned from the database searches. Coastal birds such as the White-bellied Sea-eagle and Osprey require coasts and near-coastal wetland habitat, where they feed mainly on fish, sea snakes and nesting seabirds (Johnstone & Storr 1998). This habitat is not present in the Survey Area and as such, these species have been omitted from any further discussion.

Species listed as Marine under the EPBC Act were also emitted from the conservation significant fauna species list, which comprises common species such as the Rainbow Bee-eater (*Merops ornatus*), Magpie-lark (*Grallina cyanoleuca*) and Silver Gull (*Chroicocephalus novaehollandiae*).

Marine Mammals

A number of marine mammals were also returned from the database searches, mainly from the EPBC PMST. The Survey Area is inland from the ocean and so does not contain marine habitat, as such, these species have been omitted from any further discussion.

Now Regionally Extinct

A number of species returned were also known to be historical records of species now locally extinct e.g. the chuditch. These species have therefore been omitted from any further discussion.

Database Errors

Occasionally there are obvious errors in the database searches that are sourced from the various government departments.

It is important to note, that the EPBC PMST is not entirely based on point records, but also on broader information, for example bioclimatic distribution models. Whereas DBCA's threatened fauna database and NatureMap is based on point records, and consequently the results of the EPBC PMST are in some cases less accurate, particularly at a local scale. Consequently, the EPBC PMST will include species that do not occur in the search area because for example there is no habitat or they are now known to be locally extinct.

In addition, many fauna are not distributed evenly across the landscape, are more abundant in some places than others are, and consequently more detectable (Currie 2007). Furthermore, some small, common ground-dwelling reptile and mammal species tend to be habitat specific, and many bird species can occur as regular migrants, occasional visitors or vagrants. Therefore, all these species have been omitted from any further discussion regarding fauna results.

APPENDIX G:

Flora Likelihood Table

Appendix G: Assessment of the Likely Occurrence of DRF and Priority Flora (as per DPaW and EPBC Database Searches) in the Survey Area

¹Closest record to Survey Area based on DPaW 2018. En = Listed as Endangered under the EBPC Act, Vu = Listed as Vulnerable under the EBPC Act, CE= Critically Endangered under the EBPC Act, P = Listed as Priority by the DPaW DRF = Declared Rare Flora as listed by the State.

SPECIES	CONSERVATION STATUS		HABITAT INFORMATION	DISTANCE TO NEAREST RECORD (KM)	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPaW				
<i>Acacia anomala</i>	VU	T	Lateritic soils. Slopes.	2.1	No	Unlikely
<i>Acacia aphylla</i>	VU	T	Sand, loam, clay loam. Granite outcrops, hills.	1.8	No	Unlikely
<i>Andersonia gracilis</i>	EN	T	White/grey sand, sandy clay, gravelly loam. Winter-wet areas, near swamps.	9.38	No	Unlikely
<i>Anigozanthos viridis subsp. terraspectans</i>	VU	T	Grey sand, clay loam. Winter-wet depressions.	-	No	Unlikely
<i>Anthocercis gracilis</i>	VU	T	Sandy or loamy soils. Granite outcrops.	3.6	No	Unlikely
<i>Austrostipa bronwenae</i>		T	Seasonally wet grey-brown sandy loam soil containing nodules of Muchea Limestone, at the edge of a Gahnia trifida sedgeland with <i>Eucalyptus decipiens</i> .	6.73	No	Unlikely
<i>Banksia mimica</i>	EN	T	White or grey sand over laterite, sandy loam.	6.65	Yes	Possible
<i>Caladenia huegelii</i>	EN	T	Grey or brown sand, clay loam.	6.73	No	Unlikely
<i>Calectasia cyanea</i>		T	White, grey or yellow sand, gravel.	480m	No	Unlikely
<i>Calytrix breviseta subsp. breviseta</i>	EN	T	Sandy clay. Swampy flats.	3.0	No	Unlikely

SPECIES	CONSERVATION STATUS		HABITAT INFORMATION	DISTANCE TO NEAREST RECORD (KM)	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPAW				
<i>Chamelaucium sp. Gingin</i> (N.G.Marchant 6)	EN	T	-	-	No	Unlikely
<i>Conospermum undulatum</i>	VU	T	Grey or yellow-orange clayey sand.	0	Yes	Recorded during survey
<i>Darwinia apiculata</i>	EN	T	Lateritic soils.	2.1	No	Unlikely
<i>Diplolaena andrewsii</i>		T	Loam, clay. Granite outcrops & hillsides.	7.19	No	Unlikely
<i>Diuris drummondii</i>	VU	T	Low-lying depressions, swamps.	10.19	No	Unlikely
<i>Diuris micrantha</i>	VU	T	Brown loamy clay. Winter-wet swamps, in shallow water.	33.39	No	Unlikely
<i>Diuris purdiei</i>	EN	T	Grey-black sand, moist. Winter-wet swamps.	10.37	No	Unlikely
<i>Drakaea elastica</i>	EN	T	White or grey sand. Low-lying situations adjoining winter-wet swamps.	4.78	No	Unlikely
<i>Eleocharis keigheryi</i>	VU	T	Clay, sandy loam. Emergent in freshwater: creeks, claypans.	9.56	No	Unlikely
<i>Eucalyptus x balanites</i>	EN	T	Sandy soils with lateritic gravel.	26.29	No	Unlikely
<i>Eremophila glabra subsp. chlorella</i>		T	Sandy clay. Winter-wet depressions.	8.14	No	Unlikely
<i>Grevillea christineae</i>	EN	T	Clay loam, sandy clay, often moist.	17.5	No	Unlikely
<i>Grevillea curviloba subsp. incurva</i>	EN	T	Sand, sandy loam. Winter-wet heath.	4.29	No	Unlikely

SPECIES	CONSERVATION STATUS		HABITAT INFORMATION	DISTANCE TO NEAREST RECORD (KM)	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPAW				
<i>Lasiopetalum pterocarpum</i>	EN	T	Dark red-brown loam or clayey sand over granite. On sloping banks near creeklines.	46.59	No	Unlikely
<i>Lepidosperma rostratum</i>	EN	T	Peaty sand, clay.	6.59	No	Unlikely
<i>Macarthuria keigheryi</i>	EN	T	White or grey sand.	2.0	Yes	Likely
<i>Ptilotus pyramidatus</i>	CE	T	seasonally inundated flat (floodplain), pale grey, muddy-sand to sandy-mud alluvium (only been found in Brixtan Street wetlands)	10.18	No	Unlikely
<i>Synaphea</i> sp. Fairbridge Farm (D. Papenfus 696)	CE	T	Sandy with lateritic pebbles. Near winter-wet flats, in low woodland with weedy grasses.	-	No	Unlikely
<i>Synaphea</i> sp. Pinjarra Plain (A.S. George 17182)		T	Grey sandy loam or clay, grey-brown clayey sand, brown clayey loam, laterite. Flats, seasonally wet areas, railroad reserves often with wet depressions or drains.	-	No	Unlikely
<i>Thelymitra dedmaniarum</i>	EN	T	Granite.	14.69	No	Unlikely
<i>Thelymitra stellata</i>	EN	T	low heath and scrub in Jarrah (<i>Eucalyptus marginata</i>) and Wandoo (<i>E. wandoo</i>) woodland, both on ridges and slopes, flats, also on riverbanks and breakaways. Soil types are red, brown, yellow, or grey sandy loams clay or gravel over laterite or gravel.	167m	Yes	Likely

SPECIES	CONSERVATION STATUS		HABITAT INFORMATION	DISTANCE TO NEAREST RECORD (KM)	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPAW				
<i>Trithuria occidentalis</i>	EN	T	partly submerged on the edge of shallow, winter-wet claypans	3.4	No	Unlikely
<i>Bolboschoenus medianus</i>		P1	Mud. In water and on river banks.	6.07	No	Unlikely
<i>Boronia humifusa</i>		P1	Gravelly clay loam over laterite. Jarrah-marri open forest.	3.0	Yes	Likely
<i>Calandrinia sp. Piawaning</i>		P1	Brown/gey silty sandy loam over granite. Near pools, small rise within large saline valley flats, disturbed shrubland.	-	No	Unlikely
<i>Hydrocotyle striata</i>		P1	Clay. Springs.	3.9	No	Unlikely
<i>Senecio gilbertii</i>		P1	Peaty sand. Swamps, slopes.	1.2	No	Unlikely
<i>Thelymitra magnifica</i>		P1	Stony ridges.	167m	No	Unlikely
<i>Comesperma rhadinocarpum</i>		P2	Sandy soils.	9.46	Yes	Possible
<i>Lepyrodia curvescens</i>		P2	Sand, laterite. Seasonally inundated swampland.	1.0	No	Unlikely
<i>Melaleuca viminalis</i>		P2	-	2.7	Unknown	Unknown
<i>Phyllangium palustre</i>		P2	Winter-wet claypans, low-lying seasonal wetlands.	3.4	No	Unlikely
<i>Thelymitra variegata</i>		P2	Sandy clay, sand, laterite	1.7	Yes	Likely
<i>Acacia drummondii subsp. affinis</i>		P3	Lateritic gravelly soils.	2.6	No	Unlikely
<i>Acacia horridula</i>		P3	Gravelly soils over granite, sand. Rocky hillsides.	6.4	No	Unlikely

SPECIES	CONSERVATION STATUS		HABITAT INFORMATION	DISTANCE TO NEAREST RECORD (KM)	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPAW				
<i>Acacia oncinophylla</i> subsp. <i>oncinophylla</i>		P3	Granitic soils.	4.2	No	Unlikely
<i>Acacia ridleyana</i>		P3	Grey or yellow/brown sand, gravelly clay, granitic loam.	98.28	No	Unlikely
<i>Amanita kalamundae</i>		P3	-	89.6	Unknown	Unknown
<i>Asteridea gracilis</i>		P3	Sand, clay, gravelly soils.	3.9	Yes	Likely
<i>Babingtonia urbana</i>		P3	Associated with wetlands on the Swan Coastal Plain, eastern side of the plain	9.46	No	Unlikely
<i>Banksia pteridifolia</i> subsp. <i>vernal</i>		P3	White/grey sand over laterite.	200m	Yes	Likely
<i>Beaufortia purpurea</i>		P3	Lateritic or granitic soils. Rocky slopes.	3.2	No	Unlikely
<i>Byblis gigantea</i>		P3	Sandy-peat swamps. Seasonally wet areas.	3.3	No	Unlikely
<i>Carex tereticaulis</i>		P3	Black peaty sand.	5.89	No	Unlikely
<i>Eryngium pinnatifidum</i> subsp. <i>Palustre</i> (G.J. Keighery 13459)		P3	-	-	Unknown	Unknown
<i>Eryngium</i> sp. <i>Subdecumbens</i> (G.J. Keighery 5390)		P3	-	3.4	Unknown	Unknown
<i>Grevillea manglesii</i> subsp. <i>dissectifolia</i>		P3	Gravelly loam, moist. Roadsides.	3.2	No	Unlikely
<i>Haemodorum loratum</i>		P3	Grey or yellow sand, gravel.	42m	Yes	Likely
<i>Halgania corymbosa</i>		P3	Gravelly soils, soils over granite.	1.3	Yes	Likely

SPECIES	CONSERVATION STATUS		HABITAT INFORMATION	DISTANCE TO NEAREST RECORD (KM)	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPAW				
<i>Isopogon drummondii</i>		P3	Occurs in the South-west (SW) Botanical Province(s), in the Geraldton Sandplains (GS), Swan Coastal Plain (SWA) or Jarrah Forest (JF) IBRA subregion(s).	25m	Yes	Recorded during the survey
<i>Jacksonia gracillima</i>		P3	-	11.75	Unknown	Unknown
<i>Lasiopetalum glutinosum subsp. glutinosum</i>		P3	-	1.3	Unknown	Unknown
<i>Meionectes tenuifolia</i>		P3	-	3.4	Unknown	Unknown
<i>Myriophyllum echinatum</i>		P3	Clay. Winter-wet flats.	3.14	No	Unlikely
<i>Platysace ramosissima</i>		P3	Sandy soils.	1.5	Yes	Likely
<i>Pithocarpa corymbulosa</i>		P3	Gravelly or sandy loam. Amongst granite outcrops.	3.2	No	Unlikely
<i>Schoenus capillifolius</i>		P3	Brown mud. Claypans.	6.58	No	Unlikely
<i>Schoenus sp. Waroona (G.J. Keighery 12235)</i>		P3	Clay or sandy clay. Winter-wet flats.	-	No	Unlikely
<i>Schoenus pennisetis</i>		P3	Grey or peaty sand, sandy clay.	2.0	No	Unlikely
<i>Sporobolus blakei</i>		P3	Red sandy clay, loam. Creeks.	4.2	No	Unlikely
<i>Stackhousia sp. Red-blotched corolla (A. Markey 911)</i>		P3	-	3.9	Unknown	Unknown
<i>Stylidium aceratum</i>		P3	Sandy soils. Swamp heathland.	36	No	Unlikely
<i>Styphelia filifolia</i>		P3	-	-	Unknown	Unknown

SPECIES	CONSERVATION STATUS		HABITAT INFORMATION	DISTANCE TO NEAREST RECORD (KM)	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPAW				
<i>Thysanotus anceps</i>		P3	White or grey sand, lateritic gravel, laterite.	4.3	Yes	Likely
<i>Verticordia serrata var. linearis</i>		P3	White sand, gravel. Open woodland.	9.34	Yes	Likely
<i>Acacia oncinophylla subsp. patulifolia</i>		P4	Granitic soils, occasionally on laterite.	5.58	No	Unlikely
<i>Aponogeton hexatepalus</i>		P4	Freshwater: ponds, rivers, claypans.	6.61	No	Unlikely
<i>Boronia tenuis</i>		P4	Laterite, stony soils, granite.	3.5	No	Unlikely
<i>Calothamnus accedens</i>		P4	Sandy soils over laterite. Road verge.	1.3	Yes	Likely
<i>Centrolepis caespitosa</i>		P4	White sand, clay. Salt flats, wet areas.	10.17	No	Unlikely
<i>Cyanicula ixiioides subsp. ixiioides</i>		P4	Laterite, gravel.	9.73	No	Unlikely
<i>Darwinia pimelioides</i>		P4	Loam, sandy loam. Granite outcrops.	5.88	No	Unlikely
<i>Drosera occidentalis subsp. occidentalis</i>		P4	Sandy & clayey soils. Swamps & wet depressions.	9.49	No	Unlikely
<i>Grevillea pimeleoides</i>		P4	Gravelly soils over granite. Rocky hillsides.	7.16	No	Unlikely
<i>Hibbertia montana</i>		P4	Loam over granite, lateritic soils, gravel. Granite rocks, lateritic ridges & boulders, hills.	6.58	No	Unlikely
<i>Hydrocotyle lemnoides</i>		P4	Swamps.	4.7	No	Unlikely
<i>Jacksonia sericea</i>		P4	Calcareous & sandy soils.	1.9	Yes	Likely

SPECIES	CONSERVATION STATUS		HABITAT INFORMATION	DISTANCE TO NEAREST RECORD (KM)	SUITABLE HABITAT PRESENT	LIKELIHOOD OF OCCURRENCE IN THE SURVEY AREA
	EPBC	DPAW				
<i>Lasiopetalum bracteatum</i>		P4	Sandy clay, clay, lateritic gravel. Along drainage lines, creeks, gullies, granite outcrops.	1.8	No	Unlikely
<i>Ornduffia submerse</i>		P4	-	414m	No	Unlikely
<i>Persoonia sulcata</i>		P4	Lateritic or granitic soils.	9.02	No	Unlikely
<i>Pimelea rara</i>		P4	Lateritic soils.	8.67	No	Unlikely
<i>Schoenus griffinianus</i>		P4	White sand.	1.0	No	Unlikely
<i>Senecio leucoglossus</i>		P4	Gravelly lateritic or granitic soils. Granite outcrops, slopes.	5.8	No	Unlikely
<i>Stylidium longitubum</i>		P4	Sandy clay, clay. Seasonal wetlands.	3.3	No	Unlikely
<i>Stylidium striatum</i>		P4	Brown clay loam over laterite. Hillslopes. Jarrah/Marri forest, Wandoo woodland.	1.2	No	Unlikely
<i>Thysanotus glaucus</i>		P4	White, grey or yellow sand, sandy gravel.	8	Yes	Possible
<i>Verticordia lindleyi</i> subsp. <i>lindleyi</i>		P4	Sand, sandy clay. Winter-wet depressions.	167m	No	Unlikely

APPENDIX H:

Flora Inventory

FAMILY	SPECIES
Anarthriaceae	<i>Lyginia imberbis</i>
Apocynaceae	* <i>Nerium oleander</i>
Araceae	* <i>Zantedeschia aethiopica</i>
Araliaceae	<i>Trachymene pilosa</i>
Asparagaceae	* <i>Asparagus asparagoides</i>
	<i>Laxmannia squarrosa</i>
	<i>Lomandra caespitosa</i>
	<i>Lomandra hermaphrodita</i>
	<i>Lomandra preissii</i>
	<i>Lomandra sonderi</i>
	<i>Sowerbaea laxiflora</i>
Asteraceae	* <i>Arctotheca calendula</i>
	* <i>Hypochaeris glabra</i>
	* <i>Sonchus oleraceus</i>
	* <i>Ursinia anthemoides</i>
Boraginaceae	* <i>Echium plantagineum</i>
Cactaceae	* <i>Opuntia stricta</i>
Casuarinaceae	<i>Allocasuarina fraseriana</i>
	<i>Allocasuarina humilis</i>
Colchicaceae	<i>Burchardia congesta</i>
Cyperaceae	<i>Caustis dioica</i>
	<i>Cyathochaeta avenacea</i>
	<i>Lepidosperma leptostachyum</i>
	<i>Mesomelaena pseudostygia</i>
	<i>Mesomelaena tetragona</i>
	<i>Schoenus</i> sp.
	<i>Tetraria octandra</i>
Dasypogonaceae	<i>Dasypogon obliquifolius</i>
Dilleniaceae	<i>Hibbertia hypericoides</i>
Droseraceae	<i>Drosera erythrorhiza</i>
Euphorbiaceae	* <i>Euphorbia peplus</i>
	* <i>Euphorbia terracina</i>
	<i>Monotaxis grandiflora</i> var. <i>grandiflora</i>
	* <i>Ricinus communis</i>
Fabaceae	<i>Acacia applanata</i>
	* <i>Acacia iteaphylla</i>

FAMILY	SPECIES
	* <i>Acacia longifolia</i>
	<i>Acacia saligna</i>
	<i>Bossiaea eriocarpa</i>
	<i>Bossiaea ornata</i>
	* <i>Chamaecytisus palmensis</i>
	<i>Daviesia decurrens</i>
	<i>Daviesia divaricata</i>
	* <i>Erythrina x sykesii</i>
	<i>Gastrolobium capitatum</i>
	<i>Gompholobium tomentosum</i>
	<i>Hovea trisperma</i>
	<i>Jacksonia floribunda</i>
	<i>Jacksonia lehmannii</i>
	<i>Jacksonia sternbergiana</i>
Goodeniaceae	<i>Dampiera linearis</i>
	<i>Lechenaultia biloba</i>
	<i>Scaevola canescens</i>
	<i>Scaevola repens</i>
Haemodoraceae	<i>Anigozanthos manglesii</i>
	<i>Conostylis aculeata</i>
	<i>Conostylis juncea</i>
Hemerocallidaceae	<i>Caesia micrantha</i>
	<i>Tricoryne elatior</i>
Iridaceae	* <i>Freesia</i> sp.
	* <i>Gladiolus caryophyllaceus</i>
	<i>Patersonia occidentalis</i>
	* <i>Watsonia meriana</i> var. <i>bulbillifera</i> *
Lamiaceae	<i>Hemiandra pungens</i>
Meliaceae	<i>Melia azedarach</i> (Planted)
Molluginaceae	<i>Macarthuria australis</i>
Myrtaceae	<i>Agonis flexuosa</i> (Planted)
	<i>Callistemon</i> sp. (Planted)
	<i>Calothamnus quadrifidus</i> (Planted)
	<i>Calytrix flavescens</i>
	<i>Chamelaucium uncinatum</i> (Planted)
	<i>Corymbia calophylla</i>

FAMILY	SPECIES
	<i>Eremaea pauciflora</i>
	<i>Eucalyptus marginata</i>
	<i>Eucalyptus rudis</i>
	<i>Eucalyptus todtiana</i>
	<i>Eucalyptus wandoo (Planted)</i>
	* <i>Leptospermum laevigatum</i>
	<i>Melaleuca huegelii (Planted)</i>
	<i>Melaleuca nesophila (Planted)</i>
	<i>Scholtzia involucrata</i>
Oleaceae	* <i>Olea europaea</i>
Orchidaceae	<i>Microtis media</i> subsp. <i>media</i>
	<i>Pterostylis</i> sp.
Oxalidaceae	* <i>Oxalis pes-caprae</i>
Papaveraceae	* <i>Fumaria capreolata</i>
Poaceae	<i>Amphipogon turbinatus</i>
	* <i>Arundo donax</i>
	* <i>Briza maxima</i>
	* <i>Cynodon dactylon</i>
	* <i>Cenchrus clandestinus</i>
	* <i>Ehrharta calycina</i>
	* <i>Eragrostis curvula</i>
	* <i>Hyparrhenia hirta</i>
	* <i>Lagurus ovatus</i>
	* <i>Lolium rigidum</i>
	<i>Rytidosperma</i> sp.
	Primulaceae
Proteaceae	<i>Adenanthos cygnorum</i>
	<i>Banksia dallanneyi</i> var. <i>dallanneyi</i>
	<i>Banksia menziesii</i>
	<i>Banksia nivea</i>
	<i>Banksia sessilis</i>
	<i>Conospermum undulatum</i> (T)
	<i>Hakea lissocarpa</i>
	<i>Hakea ruscifolia</i>
	<i>Hakea undulata</i>
	<i>Isopogon drummondii</i> (P3)
	<i>Lambertia multiflora</i>
	<i>Stirlingia latifolia</i>

FAMILY	SPECIES
	<i>Synaphea spinulosa</i>
Restionaceae	<i>Alexgeorgea nitens</i>
	<i>Desmocladius fasciculatus</i>
	<i>Desmocladius flexuosus</i>
	<i>Hypolaena exsulca</i>
Rhamnaceae	<i>Trymalium odoratissimum</i> subsp. <i>odoratissimum</i>
Tropaeolaceae	* <i>Tropaeolum majus</i>
Violaceae	<i>Hybanthus calycinus</i>
Xanthorrhoeaceae	<i>Xanthorrhoea preissii</i>
Zamiaceae	<i>Macrozamia riedlei</i>

APPENDIX I:

Flora Data Sheets

Site: ROEQ1

Described by: NW

Date: 19/10/2017

Location: Roe Highway
behind caravan park

Type: Q 10m x 10m

MGA Zone: 50
407203 mE 6466999 mN

Habitat: flat



Soil: Grey Sand

Vegetation:

Low Open Woodland of *Banksia menziesii* and *Allocasuarina fraseriana* over *Adenanthos cygnorum*, *Xanthorrhoea preissii* and *Eremaea pauciflora*.

Veg Condition:

VG (80%)-G (20%)

Fire Age:

8-12

SPECIES LIST:

Name	Cover	C Class	Height	Specimen Notes
<i>Adenanthos cygnorum</i>	35		400	
<i>Alexgeorgea nitens</i>	5		10	
<i>Allocasuarina fraseriana</i>	1		500	
<i>Allocasuarina humilis</i>	2		95	
<i>Amphipogon turbinatus</i>	+		25	
<i>Lysimachia arvensis</i> *	+		10	
<i>Anigozanthos manglesii</i>	+		55	
<i>Banksia menziesii</i>	5		450	
<i>Banksia nivea</i>	4		25	
<i>Bossiaea eriocarpa</i>	1		40	
<i>Briza maxima</i> *	7		35	
<i>Burchardia congesta</i>	+		60	
<i>Conostylis juncea</i>	+		30	
<i>Cyathochaeta avenacea</i>	+		80	
<i>Dampiera linearis</i>	+		20	
<i>Dasyopogon obliquifolius</i>	1		50	
<i>Daviesia decurrens</i>	+		40	
<i>Desmocladus fasciculatus</i>	+		15	
<i>Drosera erythrorhiza</i>	+		1	
<i>Ehrharta calycina</i> *	5		60	
<i>Eremaea pauciflora</i>	4		80	
<i>Fumaria capreolata</i> *	+		c	
<i>Gladiolus caryophyllaceus</i> *	+		45	
<i>Gompholobium tomentosum</i>	1		45	
<i>Hibbertia hypericoides</i>	3		50	
<i>Hybanthus calycinus</i>	+		30	
<i>Hypochaeris glabra</i> *	+		1	
<i>Isopogon drummondii</i>	3		70	
<i>Jacksonia lehmannii</i>	+		35	
<i>Lomandra hermaphrodita</i>	+		30	
<i>Lomandra preissii</i>	+		30	
<i>Lyginia imberbis</i>	+		60	
<i>Mesomelaena pseudostygia</i>	+		60	
<i>Monotaxis grandiflora</i> var. <i>grandiflora</i>	1		30	

<i>Patersonia occidentalis</i>	+	45
<i>Rytidosperma</i> sp. 1	+	30
<i>Scaevola canescens</i>	1.5	10
<i>Sonchus oleraceus</i>	+	20
<i>Stirlingia latifolia</i>	1.5	70
<i>Synaphea spinulosa</i>	+	25
<i>Trachymene pilosa</i>	+	5
<i>Tricoryne elatior</i>	+	25
<i>Ursinia anthemoides*</i>	+	25
<i>Xanthorrhoea preissii</i>	8	120

Site: ROEQ2

Described by: NW

Date: 19/10/2017

Location: Roe Highway

Type: Q 10m x 10m

MGA Zone: 50
407148 mE 6466681 mN

Habitat: flat



Soil: grey sand

Vegetation:

Open Woodland of *Eucalyptus marginata*, *Allocasuarina fraseriana*, *Banksia menziesii* over *Xanthorrhoea preissii*, *Jacksonia floribunda* and *Dasypogon obliquifolius*.

Veg Condition:

Ex

Fire Age:

8-12

SPECIES LIST:

Name	Cover	C Class	Height	Specimen Notes
<i>Acacia applanata</i>	+		45	
<i>Alexgeorgea nitens</i>	1		10	
<i>Allocasuarina fraseriana</i>	20		1200	
<i>Banksia menziesii</i>	4		450	
<i>Bossiaea eriocarpa</i>	+		35	
<i>Briza maxima*</i>	5		15	
<i>Burchardia congesta</i>	+		50	
<i>Caesia micrantha</i>	+		70	
<i>Calytrix flavescens</i>	2		60	
<i>Caustis dioica</i>	+		45	
<i>Conostylis juncea</i>	+		30	
<i>Cyathochaeta avenacea</i>	1		85	
<i>Dampiera linearis</i>	1		12	
<i>Dasypogon obliquifolius</i>	3		45	
<i>Daviesia divaricata</i>	1		40	
<i>Desmocladus flexuosus</i>	1		15	
<i>Eucalyptus marginata</i>	20		1000	
<i>Gladiolus caryophyllaceus*</i>	+		60	
<i>Gompholobium tomentosum</i>	+		40	
<i>Hemiandra pungens</i>	3.5		15	
<i>Hibbertia hypericoides</i>	1		45	
<i>Hovea trisperma</i>	+		40	
<i>Hypolaena exsulca</i>	1		35	
<i>Jacksonia floribunda</i>	4		120	
<i>Lepidosperma leptostachyum</i>	+		50	
<i>Lomandra caespitosa</i>	+		35	
<i>Lomandra sonderi</i>	+		45	
<i>Mesomelaena tetragona</i>	2.5		60	
<i>Microtis media</i> subsp. <i>media</i>	+		35	
<i>Pterostylis</i> sp.	+		15	
<i>Scaevola repens</i>	+		10	
<i>Schoenus</i> sp.	+		55	
<i>Sowerbaea laxiflora</i>	+		40	
<i>Stirlingia latifolia</i>	1		50	
<i>Trachymene pilosa</i>	+		10	
<i>Tricoryne elatior</i>	+		30	

Site: ROER1

Described by: NW

Date: 19/10/2017

Location: Roe Highway
road verge

Type: R 10m x 10m

MGA Zone: 50
407145 mE 6467077 mN

Habitat: flat



Soil: grey sand

Vegetation:

Low Woodland of *Corymbia calophylla* and *Allocasuarina fraseriana* over *Banksia sessilis*, *Xanthorrhoea preissii*, *Hibbertia hypericoides*.

Veg Condition:

Very Good

Fire Age:

8-12

SPECIES LIST:

Name	Cover	C Class	Height	Specimen Notes
<i>Allocasuarina fraseriana</i>	4		800	
<i>Anigozanthos manglesii</i>	+		50	
<i>Banksia dallanneyi</i> var. <i>dallanneyi</i>	3		25	
<i>Banksia sessilis</i>	35		500	
<i>Bossiaea eriocarpa</i>	+		35	
<i>Briza maxima</i> *	8		30	
<i>Caustis dioica</i>	2		45	
<i>Conostylis aculeata</i>	+		25	
<i>Corymbia calophylla</i>	20		900	
<i>Dasyopogon obliquifolius</i>	2		45	
<i>Gladiolus caryophyllaceus</i> *	+		60	
<i>Gompholobium tomentosum</i>	+		45	
<i>Hibbertia hypericoides</i>	2		45	
<i>Hybanthus calycinus</i>	+		25	
<i>Jacksonia floribunda</i>	1		110	
<i>Lechenaultia biloba</i>	+		35	
<i>Leptospermum laevigatum</i>	4		350	
<i>Mesomelaena pseudostygia</i>	2		50	
<i>Tetraria octandra</i>	4		45	
<i>Watsonia meriana</i> var. <i>bulbillifera</i> *	+		50	
<i>Xanthorrhoea preissii</i>	4		80	

Site: ROER2

Described by: NW

Date: 23/10/2017

Location: Roe Highway

Type: R 10m x 10m

MGA Zone: 50
406667 mE 6464450 mN

Habitat: flat, island in the middle
of road



Soil: grey sand

Vegetation:

Open Forest of *Corymbia calophylla*, *Allocasuarina fraseriana* and *Eucalyptus marginata* over *Scholtzia involucrata*, *Xanthorrhoea preissii*, *Hibbertia hypericoides* and *Acacia saligna*.

Veg Condition:

G-D

Fire Age:

8-12

SPECIES LIST:

Name	Cover	C Class	Height	Specimen Notes
<i>Acacia saligna</i>	2		200	
<i>Allocasuarina fraseriana</i>	1		900	
<i>Bossiaea ornata</i>	+		35	
<i>Corymbia calophylla</i>	40		1400	
<i>Daviesia decurrens</i>	1		45	
<i>Ehrharta calycina</i> *	1		65	
<i>Eragrostis curvula</i> *	5		70	
<i>Eucalyptus marginata</i>	2		1000	
<i>Freesia</i> sp.*	4		25	
<i>Gompholobium tomentosum</i>	1		45	
<i>Hibbertia hypericoides</i>	1		80	
<i>Hovea trisperma</i>	1		45	
<i>Laxmannia squarrosa</i>	1		20	
<i>Mesomelaena pseudostygia</i>	1		50	
<i>Microtis media</i> subsp. <i>media</i>	+		35	
<i>Scaevola repens</i>	1		10	
<i>Scholtzia involucrata</i>	3		180	
<i>Xanthorrhoea preissii</i>	2		100	

Site: ROER3

Described by: NW

Date: 23/10/2017

Location: Roe Highway

Type: R 10m x 10m

MGA Zone: 50
406755 mE 6464450 mN

Habitat:

Soil: Grey sand

Vegetation:

Open Forest of *Corymbia calophylla*, *Allocasuarina fraseriana* and *Eucalyptus marginata* over *Xanthorrhoea preissii*, *Hibbertia hypericoides* and *Mesomelaena pseudostygia*

Veg Condition:

G-D

Fire Age:

8-12

SPECIES LIST:

Name	Cover	C Class	Height	Specimen Notes
<i>Acacia saligna</i>	1		200	
<i>Allocasuarina fraseriana</i>	10		700	
<i>Banksia dallanneyi</i>	+		30	
<i>Bossiaea eriocarpa</i>	+		35	
<i>Corymbia calophylla</i>	30		1500	
<i>Ehrharta calycina</i> *	15		80	
<i>Eragrostis curvula</i> *	4		80	
<i>Eucalyptus marginata</i>	30		1500	
<i>Fumaria capreolata</i> *	+		c	
<i>Gastrolobium capitatum</i>	+		50	
<i>Gladiolus caryophyllaceus</i> *	+		80	
<i>Hibbertia hypericoides</i>	4		50	
<i>Hovea trisperma</i>	+		35	
<i>Lechenaultia biloba</i>	+		40	
<i>Mesomelaena pseudostygia</i>	2		55	
<i>Olea europaea</i> *	1		150	
<i>Oxalis pes-caprae</i> *	1		15	
<i>Tetraria octandra</i>	1		40	
<i>Xanthorrhoea preissii</i>	3		100	



Opportunistic Collections

Described by: NW

Location: Roe Highway
Kalamunda



SPECIES LIST:

Name	Notes
<i>Acacia iteaphylla</i>	
<i>Acacia longifolia</i>	
<i>Acacia saligna</i>	
<i>Agonis flexuosa</i>	
<i>Arctotheca calendula*</i>	
<i>Arundo donax*</i>	407109 6466981
<i>Asparagus asparagoides*</i>	406578 6463906
<i>Asparagus asparagoides*</i>	north of R2
<i>Asparagus asparagoides*</i>	406758 6464396
<i>Asparagus asparagoides*</i>	406769 6464419
<i>Briza maxima*</i>	
<i>Callistemon</i> sp.	
<i>Calothamnus quadrifidus</i>	
<i>Chamaecytisus palmensis</i>	
<i>Chamelaucium uncinatum</i>	
<i>Conospermum undulatum</i>	407213 6466731 1 plant
<i>Conospermum undulatum</i>	407218 6466711 1 plant
<i>Conospermum undulatum</i>	407218 6466700 3 plants
<i>Conospermum undulatum</i>	407225 6466662 1 plant
<i>Conospermum undulatum</i>	407238 646686 1 plant
<i>Conospermum undulatum</i>	407153 646639
<i>Conospermum undulatum</i>	407208 6466747 1 plant
<i>Cynodon dactylon*</i>	
<i>Dampiera linearis</i>	
<i>Echium plantagineum*</i>	406738 6464189 22 plants
<i>Ehrharta calycina*</i>	
<i>Erythrina x sykesii</i>	
<i>Eucalyptus rudis</i>	
<i>Eucalyptus todtiana</i>	
<i>Eucalyptus wandoo</i>	
<i>Euphorbia peplus*</i>	
<i>Euphorbia terracina*</i>	
<i>Fumaria capreolata*</i>	
<i>Hakea lissocarpha</i>	
<i>Hakea ruscifolia</i>	
<i>Hakea undulata</i>	
<i>Hyparrhenia hirta*</i>	
<i>Isopogon drummondii</i>	407223 6466663 3 plants
<i>Jacksonia sternbergiana</i>	
<i>Lagurus ovatus*</i>	
<i>Lambertia multiflora</i>	
<i>Lechenaultia biloba</i>	
<i>Lolium rigidum*</i>	
<i>Macarthuria australis</i>	407197 6467037 3 plants

Macrozamia riedlei
Melaleuca huegelii
Melaleuca nesophila
Melia azedarach
*Nerium oleander**
*Olea europaea**
*Opuntia stricta** 407190 6466941
*Opuntia stricta** 406353 6463207
*Opuntia stricta** 407199 6466901
*Oxalis pes-caprae**
*Pennisetum clandestinum**
*Ricinus communis**
Tetraria octandra
*Tropaeolum majus**
Trymalium odoratissimum subsp. odoratissimum
*Ursinia anthemoides**
*Zantedeschia aethiopica**

APPENDIX J:

Fauna Habitat Assessments

FAUNA HABITAT ASSESSMENT - MARRI / JARRAH FOREST HABITAT 1

Location: Roe Highway / Kalamunda Rd Date:24/10/17	Project: 2385 Roe Highway Kalamunda Road Zone: 50J	Habitat Assessment: Marri / Jarrah Forest Hab 1 Easting: 406771	Quadrat Size: 50 x 50 Northing: 6464543
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FAUNA HABITAT ASSESSMENT - MARRI / JARRAH FOREST HABITAT 2

Location: Roe Highway / Kalamunda Rd Date:24/10/17	Project: 2385 Roe Highway Kalamunda Road Zone: 50J	Habitat Assessment: Tuart Forest Hab 2 Easting: 406769	Quadrat Size: 50 x 50 Northing: 6464388
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FAUNA HABITAT ASSESSMENT - MARRI / JARRAH FOREST HABITAT 3

Location: Roe Highway / Kalamunda Rd Date:24/10/17	Project: 2385 Roe Highway Kalamunda Road Zone: 50J	Habitat Assessment: Marri / Jarrah Forest Hab 3 Easting: 406626	Quadrat Size: 50 x 50 Northing: 6463731
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FAUNA HABITAT ASSESSMENT - MARRI / JARRAH FOREST HABITAT 4 (SHEOAK PATCH)

Location: Roe Highway / Kalamunda Rd Date:24/10/17	Project: 2385 Roe Highway Kalamunda Road Zone: 50J	Habitat Assessment: Sheoak Patch Hab 1 Easting: 406450	Quadrat Size: 50 x 50 Northing: 6463367
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FAUNA HABITAT ASSESSMENT - MARRI / JARRAH FOREST HABITAT 5

Location: Roe Highway / Kalamunda Rd
Date:24/10/17

Project: 2385 Roe Highway Kalamunda Road
Zone: 50J

Habitat Assessment: Marri / Jarrah Forest Hab 4
Easting: 406692

Quadrat Size: 50 x 50
Northing: 6464517



FAUNA HABITAT ASSESSMENT - MARRI / JARRAH FOREST HABITAT 6 (POST FIRE)

Location: Roe Highway / Kalamunda Rd
Date:24/10/17

Project: 2385 Roe Highway Kalamunda Road
Zone: 50J

Habitat Assessment: Marri / Jarrah Forest Hab 5 (Fire)
Easting: 406800

Quadrat Size: 50 x 50
Northing: 6464678



FAUNA HABITAT ASSESSMENT - MARRI / JARRAH FOREST HABITAT 7

Location: Roe Highway / Kalamunda Rd Date:24/10/17	Project: 2385 Roe Highway Kalamunda Road Zone: 50J	Habitat Assessment: Marri / Jarrah Forest Hab 6 Easting: 407024	Quadrat Size: 50 x 50 Northing: 6465453
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FAUNA HABITAT ASSESSMENT - MARRI / JARRAH FOREST HABITAT 8

Location: Roe Highway / Kalamunda Rd Date:24/10/17	Project: 2385 Roe Highway Kalamunda Road Zone: 50K	Habitat Assessment: Marri / Jarrah Forest Hab 7 Easting: 406816	Quadrat Size: 50 x 50 Northing: 6465051
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FAUNA HABITAT ASSESSMENT - MARRI / JARRAH FOREST HABITAT 9

Location: Roe Highway / Kalamunda Rd Date:24/10/17	Project: 2385 Roe Highway Kalamunda Road Zone: 50K	Habitat Assessment: Marri / Jarrah Forest Hab 8 Easting: 407146	Quadrat Size: 50 x 50 Northing: 6466214
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FAUNA HABITAT ASSESSMENT - MARRI / JARRAH FOREST HABITAT 10

Location: Roe Highway / Kalamunda Rd Date:24/10/17	Project: 2385 Roe Highway Kalamunda Road Zone: 50K	Habitat Assessment: Marri / Jarrah Forest Hab 9 Easting: 407160	Quadrat Size: 50 x 50 Northing: 6466654
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FAUNA HABITAT ASSESSMENT - MARRI / JARRAH FOREST HABITAT 11 (BANKSIA WOODLAND MOSAIC)

Location: Roe Highway / Kalamunda Rd Date:24/10/17	Project: 2385 Roe Highway Kalamunda Road Zone: 50K	Habitat Assessment: Marri / Jarrah Forest Hab 10 Easting: 407158	Quadrat Size: 50 x 50 Northing: 6466665
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FAUNA HABITAT ASSESSMENT - MEDIAN STRIP WITH REHAB FEATURE 1

Location: Roe Highway / Kalamunda Rd Date:24/10/17	Project: 2385 Roe Highway Kalamunda Road Zone: 50J	Habitat Assessment: Tuart Forest /Rehab Easting: 406543	Quadrat Size: 50 x 50 Northing: 6463603
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FAUNA HABITAT ASSESSMENT - BANKSIA WOODLAND HABITAT 1 (WITH MOSAIC MARRI AND JARRAH HABITAT)

Location: Roe Highway / Kalamunda Rd	Project: 2385 Roe Highway Kalamunda Road	Habitat Assessment: Mosaic Hab 1	Quadrat Size: 50 x 50
Date:24/10/17	Zone: 50J	Easting: 406053	Northing: 6462913



FAUNA HABITAT ASSESSMENT - BANKSIA WOODLAND HABITAT 2

Location: Roe Highway / Kalamunda Rd	Project: 2385 Roe Highway Kalamunda Road	Habitat Assessment: Banksia Woodland Hab 1	Quadrat Size: 50 x 50
Date:24/10/17	Zone: 50J	Easting: 407213	Northing: 6466997



FAUNA HABITAT ASSESSMENT - INTRODUCED EUCALYPT WOODLAND HABITAT 1 (GOLF COURSE)

Location: Roe Highway / Kalamunda Rd	Project: 2385 Roe Highway Kalamunda Road	Habitat Assessment: Introduced Eucalypt Hab 1	Quadrat Size: 50 x 50
Date:24/10/17	Zone: 50J	Easting: 407256	Northing: 6465412



FAUNA HABITAT ASSESSMENT - INTRODUCED EUCALYPT WOODLAND HABITAT 2 (PARKLAND)

Location: Roe Highway / Kalamunda Rd	Project: 2385 Roe Highway Kalamunda Road	Habitat Assessment: Introduced Eucalypt Hab 2	Quadrat Size: 50 x 50
Date:24/10/17	Zone: 50K	Easting: 407149	Northing: 6465406



FAUNA HABITAT ASSESSMENT - DRAINAGE LINE FEATURE 1

Location: Roe Highway / Kalamunda Rd
Date:24/10/17

Project: 2385 Roe Highway Kalamunda Road
Zone: 50J

Habitat Assessment: Drainage Line Feature 1
Easting: 406795

Quadrat Size: 50 x 50
Northing: 6464138



FAUNA HABITAT ASSESSMENT - DRAINAGE LINE FEATURE 2

Location: Roe Highway / Kalamunda Rd
Date:24/10/17

Project: 2385 Roe Highway Kalamunda Road
Zone: 50J

Habitat Assessment: Drainage Line Feature 2
Easting: 406596

Quadrat Size: 50 x 50
Northing: 6464127



APPENDIX K:

Black Cockatoo Foraging Evidence and Photos

DATE	TAXA	EASTING	NORTHING	EVIDENCE	COMMENTS	PHOTO REF
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406820	6464511	Sighting	Three individuals flying north of location overhead	
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406808	6464508	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406769	6464532	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406775	6464539	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406770	6464512	Foraging		16
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406760	6464505	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406830	6464496	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406867	6464479	Foraging	Substantial	
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406878	6464466	Foraging		1
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406817	6464419	Foraging	Substantial	
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406747	6464429	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406757	6464467	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406790	6464459	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406771	6464417	Other	Feather	21, 22
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406817	6464165	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406819	6464153	Sighting	Two individuals overhead flying east to west	
2017-10-24	Southern Brown Bandicoot, Quenda (<i>Isoodon obesulus fusciventer</i>)**	406697	6464062	Other	Possible digging	
2017-10-24	Southern Brown Bandicoot, Quenda (<i>Isoodon obesulus fusciventer</i>)**	406692	6464030	Other	Possible digging	20
2017-10-24	Rabbit (<i>Oryctolagus cuniculus</i>)	406662	6463939	Other	Burrow, diggings	
2017-10-24	Carnaby's Black Cockatoo (<i>Calyptorhynchus latirostris</i>)*	406625	6463732	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406634	6463710	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406627	6463725	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406631	6463720	Sighting	One individual flew overhead west to east	
2017-10-24	Carnaby's Black Cockatoo (<i>Calyptorhynchus latirostris</i>)*	406604	6463646	Foraging		11
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406604	6463640	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406597	6463619	Foraging	Side chew	
2017-10-24	Carnaby's Black Cockatoo (<i>Calyptorhynchus latirostris</i>)*	406590	6463565	Foraging		10
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406567	6463493	Foraging	Extensive foraging	14
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406560	6463463	Foraging		8
2017-10-24	Carnaby's Black Cockatoo (<i>Calyptorhynchus latirostris</i>)*	406563	6463461	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406544	6463419	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406542	6463404	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406495	6463309	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406407	6463153	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406218	6462951	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406215	6462953	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406215	6462948	Foraging	Extensive	
2017-10-24	Southern Brown Bandicoot, Quenda (<i>Isoodon obesulus fusciventer</i>)**	406089	6462954	Other	Possible digging	
2017-10-24	Southern Brown Bandicoot, Quenda (<i>Isoodon obesulus fusciventer</i>)**	406141	6462978	Other	Possible digging	
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406179	6463011	Foraging		
2017-10-24	Southern Brown Bandicoot, Quenda (<i>Isoodon obesulus fusciventer</i>)**	406199	6463022	Other		
2017-10-24	Carnaby's Black Cockatoo (<i>Calyptorhynchus latirostris</i>)*	406292	6463127	Foraging		
2017-10-24	Southern Brown Bandicoot, Quenda (<i>Isoodon obesulus fusciventer</i>)**	406306	6463136	Other	Possible digging	
2017-10-24	Carnaby's Black Cockatoo (<i>Calyptorhynchus latirostris</i>)*	406379	6463226	Foraging	Potential foraging on <i>B. menzezii</i>	9
2017-10-24	Carnaby's Black Cockatoo (<i>Calyptorhynchus latirostris</i>)*	406399	6463243	Foraging	Potential foraging on <i>B. menzezii</i>	

DATE	TAXA	EASTING	NORTHING	EVIDENCE	COMMENTS	PHOTO REF
2017-10-24	Carnaby's Black Cockatoo (<i>Calyptorhynchus latirostris</i>)*	406434	6463308	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406457	6463364	Sighting	Two individuals overhead heading west	
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406486	6463417	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406507	6463501	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406515	6463534	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406573	6463839	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406571	6463860	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406595	6464013	Sighting		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406631	6464261	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406627	6464346	Foraging		7
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406627	6464368	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406655	6464474	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406654	6464352	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406668	6464293	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406681	6464443	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406687	6464457	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406692	6464471	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406693	6464473	Foraging	Extensive throughout area	18
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406682	6464470	Foraging	Extensive throughout area	6
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406721	6464559	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406717	6464585	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406718	6464591	Foraging		
2017-10-24	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406685	6464570	Foraging		
2017-11-01	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406782	6464552	Foraging		
2017-11-01	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406779	6464553	Foraging		5
2017-11-01	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406770	6464576	Foraging		
2017-11-01	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406773	6464585	Foraging		2
2017-11-01	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406780	6464596	Foraging		
2017-11-01	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406556	6464856	Foraging		
2017-11-01	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406783	6464607	Foraging		
2017-11-01	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406780	6464606	Foraging		
2017-11-01	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406781	6464609	Foraging	Extensive foraging	
2017-11-01	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406816	6464806	Sighting	Two individuals landed in trees above, and started foraging	
2017-11-01	Carnaby's Black Cockatoo (<i>Calyptorhynchus latirostris</i>)*	406821	6464808	Foraging		
2017-11-01	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406824	6464815	Foraging		
2017-11-01	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406823	6464817	Sighting	Heard two individuals flying to north, from the east to west	
2017-11-01	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406823	6464821	Foraging		
2017-11-01	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406826	6464833	Foraging		
2017-11-01	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406829	6464836	Sighting	Three individuals observed foraging in tree at this location	
2017-11-01	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406838	6464859	Foraging	Substantial foraging evidence	
2017-11-01	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406838	6464884	Foraging		
2017-11-01	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406859	6464942	Sighting	Two individuals observed flying from west and land in roadside veg, just to the north	
2017-11-01	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406857	6464959	Foraging		
2017-11-01	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406862	6464992	Foraging	Extensive foraging	
2017-11-01	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406870	6465000	Foraging	Extensive foraging	

DATE	TAXA	EASTING	NORTHING	EVIDENCE	COMMENTS	PHOTO REF
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	406868	6465001	Foraging	Extensive foraging	
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	406885	6465075	Foraging		
2017-11-01	<i>Carnaby's Black Cockatoo (Calyptorhynchus latirostris)*</i>	406898	6465127	Foraging		12
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	406897	6465156	Foraging		
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	406901	6465180	Foraging		
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	406914	6465215	Sighting	Three individuals observed foraging at this point, flew over to other side of road	
2017-11-01	Southern Brown Bandicoot, Quenda (<i>Isoodon obesulus fusciventer</i>)**	406932	6465199	Other		
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	406929	6465234	Sighting	Additional individual flew across the road from this point	
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	406932	6465233	Foraging		13
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	406944	6465251	Foraging	Extensive foraging	
2017-11-01	Southern Brown Bandicoot, Quenda (<i>Isoodon obesulus fusciventer</i>)**	406947	6465261	Other	Possible digging	
2017-11-01	Southern Brown Bandicoot, Quenda (<i>Isoodon obesulus fusciventer</i>)**	406952	6465276	Other	Extensive diggings	
2017-11-01	Southern Brown Bandicoot, Quenda (<i>Isoodon obesulus fusciventer</i>)**	406964	6465309	Other	Possible digging	
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	406979	6465343	Foraging		17
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	406983	6465460	Foraging		
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	406969	6465441	Foraging		
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	406962	6465414	Foraging		
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	406963	6465415	Foraging	Fresh residue from today	
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	406957	6465397	Foraging	Extensive foraging	
2017-11-01	Southern Brown Bandicoot, Quenda (<i>Isoodon obesulus fusciventer</i>)**	407039	6465478	Other	Possible digging	
2017-11-01	Southern Brown Bandicoot, Quenda (<i>Isoodon obesulus fusciventer</i>)**	407119	6465672	Other	Heard mammal, likely quenda. Subsidiary diggings throughout area	
2017-11-01	Southern Brown Bandicoot, Quenda (<i>Isoodon obesulus fusciventer</i>)**	407112	6465644	Other	Possible digging	
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	407134	6465770	Foraging		
2017-11-01	Southern Brown Bandicoot, Quenda (<i>Isoodon obesulus fusciventer</i>)**	407141	6465766	Other	Possible digging	
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	407149	6465836	Sighting	Three individuals sighted on tree resting at this location	
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	407148	6465838	Foraging	Foraging evidence from three individuals observed in tree above	
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	407151	6465848	Foraging	Extensive previous foraging	
2017-11-01	Southern Brown Bandicoot, Quenda (<i>Isoodon obesulus fusciventer</i>)**	407162	6465893	Other	Possible digging	
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	407162	6465920	Foraging		
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	407172	6465950	Foraging		
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	407175	6465958	Foraging	Extensive foraging evidence	
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	407179	6465991	Foraging	Extensive foraging evidence	
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	407192	6466028	Sighting	Heard additional individuals east in golf course	
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	407185	6466025	Foraging		
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	407198	6466080	Foraging		
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	407199	6466099	Sighting	Individual flew overhead and landed in trees on other side of roe highway	
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	407215	6466255	Foraging		
2017-11-01	Southern Brown Bandicoot, Quenda (<i>Isoodon obesulus fusciventer</i>)**	407222	6466270	Other	Possible digging	
2017-11-01	Southern Brown Bandicoot, Quenda (<i>Isoodon obesulus fusciventer</i>)**	407225	6466287	Other	Possible digging	
2017-11-01	Southern Brown Bandicoot, Quenda (<i>Isoodon obesulus fusciventer</i>)**	407240	6466382	Other	Possible digging	
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	407237	6466380	Foraging		
2017-11-01	<i>Rabbit (Oryctolagus cuniculus)</i>	407230	6466424	Other	Warren and sighting	
2017-11-01	Southern Brown Bandicoot, Quenda (<i>Isoodon obesulus fusciventer</i>)**	407231	6466465	Other	Possible digging	19
2017-11-01	<i>Baudin's Black Cockatoo (Calyptorhynchus baudinii)*</i>	407198	6466837	Other	Foraging	
2017-11-01	<i>Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)</i>	407389	6465217	Foraging		

DATE	TAXA	EASTING	NORTHING	EVIDENCE	COMMENTS	PHOTO REF
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	407408	6465070	Foraging		15
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	407381	6465117	Foraging		
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	407419	6465065	Foraging	Edge foraging evidence	
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406959	6465658	Foraging		
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406956	6465651	Foraging	Extensive foraging evidence	
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406955	6465626	Foraging	Extensive foraging evidence	4
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406926	6465518	Foraging		
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406904	6465437	Foraging		
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406902	6465421	Foraging		
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406889	6465363	Foraging	Extensive foraging evidence	
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406887	6465328	Sighting	Three individuals observed foraging at this location.	
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406888	6465327	Foraging	Extensive foraging evidence	
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406880	6465315	Foraging	Extensive foraging evidence	
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406880	6465317	Foraging		
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406870	6465297	Foraging		
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406859	6465222	Sighting	Four individuals foraging in trees	
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406853	6465207	Foraging	Extensive foraging evidence	3
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406852	6465188	Foraging		
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406825	6465108	Sighting	Individual in tree	
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406814	6465064	Foraging		
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406799	6465016	Foraging		
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406787	6464941	Foraging		
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406782	6464937	Foraging		
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406765	6464913	Sighting	Three individuals foraging in trees at this location	
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406772	6464899	Foraging	Extensive foraging evidence	
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406757	6464847	Foraging	Extensive foraging evidence	
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406749	6464771	Foraging	Extensive foraging evidence	
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406737	6464721	Foraging	Extensive foraging evidence	
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406734	6464660	Foraging		
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406720	6464637	Foraging		
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	406994	6465775	Foraging	Extensive foraging evidence	
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	407020	6465849	Foraging		
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	407093	6466024	Foraging		
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	407099	6466038	Foraging	Extensive foraging evidence	
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	407143	6466233	Foraging		
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	407159	6466393	Foraging		
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	407107	6467001	Foraging		
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	407075	6467069	Foraging		
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	407174	6466536	Foraging		
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	407162	6466399	Foraging	Extensive foraging evidence	
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	407165	6466350	Foraging		
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	407146	6466281	Foraging	Individuals foraging in Jarrah	
2017-11-03	Forest Red-tailed Black Cockatoo (<i>Calyptorhynchus banksii naso</i>)	407147	6466204	Foraging		

* Carnaby's and Baudin's Black Cockatoo feeding residues could not be confirmed, similar to Red-capped Parrot (*Purpureicephalus spurius*) feeding residues

** Southern Brown Bandicoot, Quenda and Rabbit diggings can be easily misidentified in the field. Recommend a targeted Quenda survey to confirm.



Photo Reference: 1



Photo Reference: 2



Photo Reference: 3



Photo Reference: 4



Photo Reference: 5



Photo Reference: 6

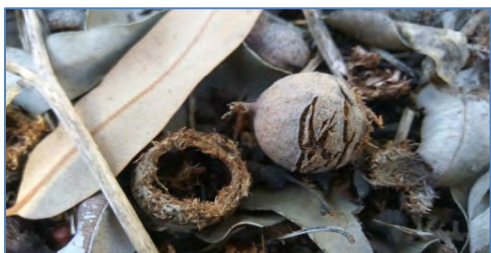


Photo Reference: 7



Photo Reference: 8



Photo Reference: 9



Photo Reference: 10



Photo Reference: 11



Photo Reference: 12



Photo Reference: 13



Photo Reference: 14

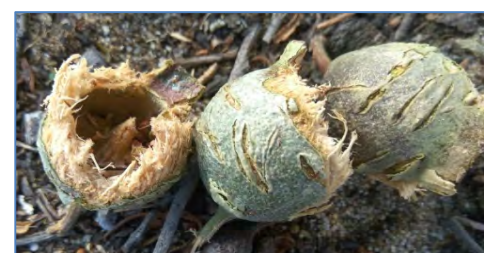


Photo Reference: 15



Photo Reference: 16



Photo Reference: 17



Photo Reference: 18



Photo Reference: 19



Photo Reference: 20



Photo Reference: 21



Photo Reference: 22

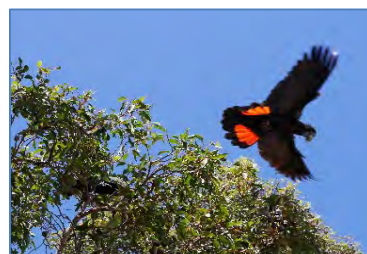


Photo Reference: Red-tail with feeding residue

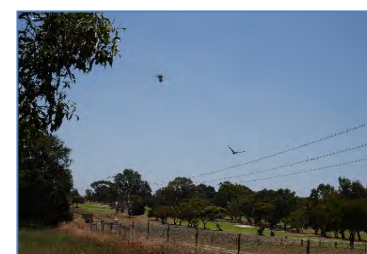


Photo Reference: Red-tails flying over site

APPENDIX L:

Black Cockatoo Potential Breeding Trees and Photos

FID	DATE	TAXA	EASTING	NORTHING	DBH (mm)	HEIGHT (m)	HOLLOW	# HOLLOW	TYPE HOLLOW	COMMENTS	PHOTO REF
960	1/11/2017	Tuart (<i>Eucalyptus gomphocephala</i>)	407175	6465569	2165	10	no			Very large tuart	1
835	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407258	6465671	1910	8	yes	3	Small	Large old tree. All hollows taken by bees.	2
818	1/11/2017	Introduced Eucalypt	407230	6465807	1789	12	no			Could be native	3
819	1/11/2017	Tuart (<i>Eucalyptus gomphocephala</i>)	407231	6465788	1681	12	yes	1	Small	Small hole not suitable for black cockatoos	4
926	1/11/2017	Tuart (<i>Eucalyptus gomphocephala</i>)	407415	6465116	1592	12	no			Difficult to measure against fence	5
779	1/11/2017	Jarraah (<i>Eucalyptus marginata</i>)	407160	6467033	1566	8	no			Old split tree not benefiting black Cockatoo	6
1061	3/11/2017	Jarraah (<i>Eucalyptus marginata</i>)	406885	6465779	1541	12	yes	3	Medium	Huge Jarraah. Two small hollows and one large that could be appropriate for Black Cockatoo	7
742	1/11/2017	Jarraah (<i>Eucalyptus marginata</i>)	407181	6467003	1528	10	no			Large tree. No obvious hollows but could benefit from further inspection	8
600	1/11/2017	Jarraah (<i>Eucalyptus marginata</i>)	407242	6466562	1518	5	yes	1	Small	Stag. Very large opening where tree broke in half. Not suitable for black Cockatoo	9
952	1/11/2017	Allocasuarina Spp	407187	6465505	1432	0	no			Large sheok	
924	1/11/2017	Introduced Eucalypt	407435	6465119	1337	8	yes	1	Small	Very small hollow	
560	1/11/2017	Jarraah (<i>Eucalyptus marginata</i>)	407192	6466106	1308	10	yes	3	Medium	Very large tree, three observed small hollows. One potential larger hollow low on trunk, but may not form a hollow.	10
781	1/11/2017	Jarraah (<i>Eucalyptus marginata</i>)	407156	6467008	1273	12	no			Very large tree. No hollows observed	11
630	1/11/2017	Jarraah (<i>Eucalyptus marginata</i>)	407225	6466674	1222	12	no			Very large Jarraah. No obvious hollows existing	12
817	1/11/2017	Tuart (<i>Eucalyptus gomphocephala</i>)	407243	6465825	1222	12	no				13
987	3/11/2017	Introduced Eucalypt	407246	6465349	1206	8	no			Looks like Marri, but had very different nuts	14
1191	3/11/2017	Jarraah (<i>Eucalyptus marginata</i>)	407163	6466663	1184	10	yes	1	Medium	Large Jarraah with Large hollow, may suit black Cockatoo. But no cure marks around hollow	15
838	1/11/2017	Allocasuarina Spp	407245	6465645	1114	0					
855	1/11/2017	Introduced Eucalypt	407231	6465572	1114	12	no				16
925	1/11/2017	Introduced Eucalypt	407460	6465091	1114	10	no				
832	1/11/2017	Jarraah (<i>Eucalyptus marginata</i>)	407256	6465691	1111	10	no			Measurement taken below tree bulge at dbh	17
116	24/10/2017	Tuart (<i>Eucalyptus gomphocephala</i>)	406358	6463066	1082	12	no				18
544	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407157	6465904	1073	10	no				19
877	1/11/2017	Introduced Eucalypt	407256	6465412	1066	12	no				20
945	1/11/2017	Tuart (<i>Eucalyptus gomphocephala</i>)	407317	6465301	1060	12	no				
896	1/11/2017	Tuart (<i>Eucalyptus gomphocephala</i>)	407353	6465292	1050	10	no				21
569	1/11/2017	Allocasuarina Spp	407239	6466348	1041	8	no			Very large sheok	
830	1/11/2017	Introduced Eucalypt	407259	6465706	1028	0					
522	1/11/2017	Jarraah (<i>Eucalyptus marginata</i>)	407097	6465816	1025	10	yes	2	Small	Very large tree. Two potential hollows at broken limbs, but not suitable for BC and less than 12cm diameter.	22
1059	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407384	6465119	1022	10	no				23
975	1/11/2017	Pine (<i>Pinus Sp.</i>)	407197	6465703	1012	15	no				
1056	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407406	6465074	1003	12	no			Or could be large introduced corymbia	24
1245	3/11/2017	Jarraah (<i>Eucalyptus marginata</i>)	407146	6466280	990	12	no				
1063	3/11/2017	Marri (<i>Corymbia calophylla</i>)	406919	6465757	987	1	no				
1242	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407161	6466308	987	10	no				
333	24/10/2017	Introduced Eucalypt	406567	6464483	955	0					
519	1/11/2017	Introduced Eucalypt	407039	6465750	955	12	no				
842	1/11/2017	OTHER	407244	6465629	955	6	yes	2	Small	Stag. Hollows taken over by bees	
1103	3/11/2017	Marri (<i>Corymbia calophylla</i>)	406767	6464867	955	10	no				
1204	3/11/2017	Jarraah (<i>Eucalyptus marginata</i>)	407156	6466590	955	10	no				
554	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407189	6466034	945	10	no				
559	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407201	6466098	936	12	no			Large tree	
1219	3/11/2017	Jarraah (<i>Eucalyptus marginata</i>)	407172	6466540	923	10	yes	3	Large	Two larger than 12cm diameter, but no evidence of chew marks around edges	
366	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406672	6464353	920	8	no				
976	1/11/2017	Pine (<i>Pinus Sp.</i>)	407200	6465700	910	15	no				
294	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406592	6463989	907	10	no				
844	1/11/2017	Introduced Eucalypt	407235	6465616	904	12	no				
852	1/11/2017	Introduced Eucalypt	407231	6465591	901	12	no				
1143	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407077	6467075	898	10	no				
548	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407169	6465936	894	10	no				
528	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407122	6465687	891	10	no				
927	1/11/2017	Introduced Eucalypt	407405	6465137	891	12	no				
1058	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407392	6465103	888	10	no				
1209	3/11/2017	Jarraah (<i>Eucalyptus marginata</i>)	407176	6466578	888	10	yes	1	Small	Stag. Potential spout hollow	
508	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407036	6465487	869	10	no				
492	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406979	6465461	863	10	no				
553	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407183	6466029	863	18	no				
512	1/11/2017	Introduced Eucalypt	407058	6465509	859	10	no			Introduced Euclid r Jarraah	
70	24/10/2017	Jarraah (<i>Eucalyptus marginata</i>)	406649	6463816	856	10	yes	3	Medium	Hollows, 2 small and one large spout. No chew evidence on spout.	
132	24/10/2017	Jarraah (<i>Eucalyptus marginata</i>)	406293	6463002	856	8	no				
567	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407227	6466298	856	10	no				
444	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406893	6465097	853	10	no			Two limbs have fallen off which may create hollows in the future	
690	1/11/2017	Allocasuarina Spp	407252	6466691	853	8	no			Very large soak	
549	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407171	6465953	850	8	no				
1088	3/11/2017	Marri (<i>Corymbia calophylla</i>)	406967	6465278	850	10	no				
900	1/11/2017	Introduced Eucalypt	407372	6465280	847	12	no				
1068	3/11/2017	Marri (<i>Corymbia calophylla</i>)	406939	6465746	844	10	no				
1257	3/11/2017	Jarraah (<i>Eucalyptus marginata</i>)	407151	6466242	844	12	no				
564	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407222	6466249	840	10	no				
1235	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407173	6466425	834	10	no				
1289	3/11/2017	OTHER	406894	6465789	834	10	no			Cape lilac	

FID	DATE	TAXA	EASTING	NORTHING	DBH (mm)	HEIGHT (m)	HOLLOWES	# HOLLOWES	TYPE HOLLOW	COMMENTS	PHOTO REF
428	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406938	6464874	831	10	no				
478	1/11/2017	Introduced Eucalypt	407008	6465409	828	0					
893	1/11/2017	Tuart (<i>Eucalyptus gomphocephala</i>)	407333	6465305	828	10	no				
1247	3/11/2017	Jarrah (<i>Eucalyptus marginata</i>)	407154	6466268	828	10	no			Stag.	
77	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406594	6463603	818	8	no				
566	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407218	6466259	815	8	no				
1243	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407164	6466301	812	10	no				
1287	3/11/2017	Introduced Eucalypt	407317	6465684	812	0					
13	24/10/2017	Introduced Eucalypt	406778	6464335	809	10	no				
1080	3/11/2017	Jarrah (<i>Eucalyptus marginata</i>)	406952	6465633	805	9	no				
206	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406335	6463158	802	10	no			Tree forked below dbh, measured largest trunk	
527	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407117	6465673	799	10	no				
1162	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407119	6466929	799	10	no				
101	24/10/2017	Jarrah (<i>Eucalyptus marginata</i>)	406466	6463231	796	8	no				
488	1/11/2017	Jarrah (<i>Eucalyptus marginata</i>)	407035	6465447	796	10	no				
494	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406969	6465436	796	10	no				
523	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407119	6465662	796	10	no				
882	1/11/2017	Introduced Eucalypt	407267	6465379	796	0					
906	1/11/2017	Tuart (<i>Eucalyptus gomphocephala</i>)	407376	6465242	796	12	no				
978	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407159	6465760	789	10	no				
137	24/10/2017	Jarrah (<i>Eucalyptus marginata</i>)	406273	6462991	786	8	yes	1	Small	Small hole at top of tree	
757	1/11/2017	Jarrah (<i>Eucalyptus marginata</i>)	407160	6467129	783	8	no				
1075	3/11/2017	Marri (<i>Corymbia calophylla</i>)	406964	6465686	783	10	no				
297	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406607	6464007	780	12	no			Roost potential due to height	
864	1/11/2017	Introduced Eucalypt	407215	6465470	780	10	no				
1057	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407401	6465086	780	10	no				
1169	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407141	6466844	780	10	no				
196	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406252	6463075	777	10	no				
431	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406846	6464904	777	10	no				
503	1/11/2017	Introduced Eucalypt	407030	6465467	777	10	no				
518	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407033	6465742	773	10	yes	2	Small	Tree forked at dbh, measured largest trunk of the two just above breast height. Several limbs have fallen creating potential hollows. Currently don't appear to be suitable for Black Cockatoo.	
1241	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407165	6466337	773	10	no				
874	1/11/2017	Introduced Eucalypt	407254	6465428	770	0					
1238	3/11/2017	Jarrah (<i>Eucalyptus marginata</i>)	407153	6466352	770	12	no				
246	24/10/2017	Jarrah (<i>Eucalyptus marginata</i>)	406477	6463408	764	10	no			Tree forks at ground. Just measured the largest trunk	
259	24/10/2017	Jarrah (<i>Eucalyptus marginata</i>)	406528	6463563	764	12	no			Diameter taken just after fork to only record one trunk	
332	24/10/2017	Introduced Eucalypt	406568	6464481	764	0					
500	1/11/2017	Jarrah (<i>Eucalyptus marginata</i>)	407025	6465465	764	10	no				
535	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407131	6465751	764	10	no			Tree forking at dbh, so measured largest trunk just above	
922	1/11/2017	Introduced Eucalypt	407420	6465134	764	0					
991	3/11/2017	Introduced Eucalypt	407224	6465371	764	0					
489	1/11/2017	Jarrah (<i>Eucalyptus marginata</i>)	407027	6465451	761	10	no				
697	1/11/2017	Jarrah (<i>Eucalyptus marginata</i>)	407222	6466722	758	8	no				
473	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407007	6465397	754	10	no				
963	1/11/2017	Introduced Eucalypt	407179	6465611	754	8	no				
1108	3/11/2017	Marri (<i>Corymbia calophylla</i>)	406747	6464790	754	10	no				
201	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406277	6463094	751	10	no				
457	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406932	6465212	748	12	no				
496	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406953	6465405	745	10	no				
59	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406655	6463872	742	8	no			Tree branched just above dbh, so measured at dbh level.	
541	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407147	6465835	742	10	no			Tree that three reds were foraging in	
542	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407151	6465836	742	8	no				
472	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406997	6465390	738	8	no				
192	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406201	6463030	732	8	no				
477	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407003	6465403	732	10	no				
873	1/11/2017	Introduced Eucalypt	407245	6465433	732	15	no				
953	1/11/2017	Introduced Eucalypt	407183	6465518	732	0					
374	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406691	6464471	726	8	no				
476	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407010	6465399	726	10	no				
188	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406175	6463011	723	8	no				
649	1/11/2017	Jarrah (<i>Eucalyptus marginata</i>)	407223	6466730	723	8	no				
112	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406380	6463099	719	8	no				
390	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406708	6464534	719	8	no			Stag	
115	24/10/2017	Jarrah (<i>Eucalyptus marginata</i>)	406353	6463081	716	6	no			Diameter measured just below dbh, due to forking	
309	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406610	6464096	716	10	no				
422	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406825	6464814	716	10	no				
456	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406923	6465208	716	8	no				
495	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406971	6465425	716	10	no			Tree forked at base, measured largest trunk at dbh	
568	1/11/2017	Jarrah (<i>Eucalyptus marginata</i>)	407230	6466310	716	10	no				
709	1/11/2017	Jarrah (<i>Eucalyptus marginata</i>)	407216	6466844	716	8	no				
849	1/11/2017	Introduced Eucalypt	407221	6465607	716	0					

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1236	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407165	6466419	716	10	no				
296	24/10/2017	Jarrah (<i>Eucalyptus marginata</i>)	406599	6464002	713	10	no			Measurement taken just below dbh, sure to forking	
413	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406906	6464719	713	10	no			Recent fire. Tree forks at dbh, measured single trunk just above	
525	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407117	6465645	713	8	no				
529	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407118	6465693	713	10	no				
533	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407127	6465727	713	10	no				
785	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407163	6466992	713	10	no				
940	1/11/2017	Introduced Eucalypt	407338	6465265	713	10	no				
37	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406814	6464159	710	8	no				
435	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406865	6464979	710	8	no				
531	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407126	6465712	707	8	no				
61	24/10/2017	Jarrah (<i>Eucalyptus marginata</i>)	406662	6463963	700	8	yes	2	Small	Both inhabited by feral bees, and are just under 12cm	
81	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406565	6463488	700	10	no				
139	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406253	6462990	700	10	no				
202	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406301	6463114	700	10	no				
364	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406667	6464307	700	8	no				
417	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406808	6464755	700	10	no			Recent fire	
964	1/11/2017	<i>Allocasuarina</i> Spp	407175	6465613	700	6	no				
1155	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407102	6467008	700	10	no				
1193	3/11/2017	Jarrah (<i>Eucalyptus marginata</i>)	407166	6466650	700	10	no				
1230	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407173	6466496	700	10	no				
1114	3/11/2017	Marri (<i>Corymbia calophylla</i>)	406733	6464687	697	10	no				
159	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406165	6462916	694	8	no			Substantial foregoing at dbh, therefore measured largest trunk above	
1116	3/11/2017	Marri (<i>Corymbia calophylla</i>)	406732	6464657	694	10	no				
534	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407130	6465740	688	10	no				
563	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407225	6466237	688	8	no				
1014	3/11/2017	Introduced Eucalypt	407147	6465508	688	12	no				
11	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406808	6464420	684	8	no				
256	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406498	6463473	684	8	no				
258	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406526	6463539	684	8	no				
307	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406610	6464097	684	10	no				
1263	3/11/2017	Jarrah (<i>Eucalyptus marginata</i>)	407144	6466209	684	10	no				
470	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406980	6465357	681	8	no			Tree bulged at dbh, measured slightly below	
54	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406662	6463911	678	10	no				
446	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406896	6465124	678	10	no			Tree forked at dbh, measured main trunk just above	
71	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406644	6463777	675	10	no				
195	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406245	6463069	675	8	yes	1	Small	Potential hollow in stag arm of tree, but will be less than 12cm	
471	1/11/2017	Introduced Eucalypt	406998	6465379	675	10	no			Tree very unhealthy at base	
546	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407159	6465927	675	10	no				
555	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407188	6466056	675	8	no			Tree is trunking heavily at dbh. Measured largest single took just above	
562	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407223	6466235	675	8	no				
755	1/11/2017	Jarrah (<i>Eucalyptus marginata</i>)	407155	6467080	675	10	no				
24	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406752	6464465	672	12	no				
2	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406793	6464508	668	8	no				
84	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406560	6463460	668	10	no			Forked at dbh, measured just above	
320	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406623	6464300	668	10	no			Due to forking had to measure higher than dbh	
378	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406688	6464521	668	10	no				
797	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407175	6466948	668	8	no				
1008	3/11/2017	Introduced Eucalypt	407171	6465474	668	0					
491	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407020	6465443	665	8	no				
813	1/11/2017	Introduced Eucalypt	407275	6466155	662	0					
1237	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407168	6466395	662	10	no				
317	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406618	6464253	659	12	no				
445	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406896	6465108	659	10	no				
543	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407150	6465842	659	8	no				
545	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407167	6465918	659	10	no			Tree forking at dbh, measured largest trunk just above	
558	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407196	6466084	659	10	no				
9	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406856	6464485	653	8	no			Tree forked at base measured largest trunk at dbh. Had to measure slightly higher due to additional fork.	
39	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406746	6464120	653	8	no			Tree branches at base, only measured one trunk at dbh	
76	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406597	6463619	653	6	no				
92	24/10/2017	Jarrah (<i>Eucalyptus marginata</i>)	406544	6463386	653	10	yes	1	Small	Tree forked at dbh, measured largest trunk just above fork. Small hole in pruned wood.	
186	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406166	6463003	653	8	no			Forked at dbh, measured diameter just above of largest trunk	
385	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406681	6464553	653	10	no				
412	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406801	6464717	653	8	no			Recent fire, tree not healthy afterwards	
499	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406953	6465378	653	10	no			Due to branches measured slightly above breast height.	
1089	3/11/2017	Marri (<i>Corymbia calophylla</i>)	406845	6465155	653	10	no				
0	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406800	6464517	649	8	no			Tree forked at dbh, measured largest of four just above.	
493	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406971	6465441	646	10	no				
511	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407044	6465507	646	8	no				
510	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407050	6465498	640	8	no				
100	24/10/2017	Jarrah (<i>Eucalyptus marginata</i>)	406474	6463235	637	8	yes	2	Small	Hollow at base, inhabited by bees, then one small spout less than 12cm. Could not measure accurately due to bees.	

FID	DATE	TAXA	EASTING	NORTHING	DBH (mm)	HEIGHT (m)	HOLLOW	# HOLLOW	TYPE HOLLOW	COMMENTS	PHOTO REF
113	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406367	6463099	637	8	no				
314	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406620	6464189	637	8	no				
373	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406695	6464468	637	8	no				
427	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406829	6464857	637	10	no			Recent fire at base	
437	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406868	6465004	637	10	no			Tree building at dbh level, measured trunk just above.	
453	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406911	6465182	637	10	no				
479	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407010	6465418	637	8	no				
1019	3/11/2017	Introduced Eucalypt	407118	6465553	637	8	no				
1021	3/11/2017	Introduced Eucalypt	407092	6465596	637	0					
1087	3/11/2017	Marri (<i>Corymbia calophylla</i>)	406877	6465308	637	8	no				
1093	3/11/2017	Marri (<i>Corymbia calophylla</i>)	406810	6465028	637	8	no			Measured just below dbh, to remove issue with tree fork	
1110	3/11/2017	Marri (<i>Corymbia calophylla</i>)	406752	6464771	637	10	no				
1276	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407079	6465959	637	10	no				
403	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406783	6464622	633	10	no				
12	24/10/2017	OTHER	406768	6464354	630	6	no			Not sure of ID	
22	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406743	6464410	627	10	no				
106	24/10/2017	Jarrah (<i>Eucalyptus marginata</i>)	406438	6463200	627	6	no			Tree forked at base and again at dbh. Measured largest trunk just above dbh.	
226	24/10/2017	Jarrah (<i>Eucalyptus marginata</i>)	406432	6463318	627	12	no				
3	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406770	6464538	624	10	no				
40	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406713	6464096	621	6	no			Tree forked below dbh, measured largest trunk	
111	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406397	6463123	621	8	no			Diameter recorded just above dbh so to forking of trunks.	
279	24/10/2017	Jarrah (<i>Eucalyptus marginata</i>)	406585	6463926	621	8	no				
285	24/10/2017	Jarrah (<i>Eucalyptus marginata</i>)	406589	6463955	621	8	no				
421	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406821	6464799	621	10	no				
1077	3/11/2017	Marri (<i>Corymbia calophylla</i>)	406964	6465673	621	10	no				
1288	3/11/2017	Introduced Eucalypt	407000	6465905	621	0					
556	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407194	6466067	618	8	no				
547	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407165	6465932	611	10	no				
552	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407180	6465996	611	10	no				
848	1/11/2017	Introduced Eucalypt	407227	6465607	611	0					
860	1/11/2017	Introduced Eucalypt	407245	6465525	611	0					
1117	3/11/2017	Marri (<i>Corymbia calophylla</i>)	406714	6464620	611	12	no				
1166	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407134	6466991	611	10	no				
1258	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407142	6466222	611	10	no				
28	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406792	6464456	605	10	no				
65	24/10/2017	Jarrah (<i>Eucalyptus marginata</i>)	406653	6463838	605	6	yes	2	Medium	Stag, large openings at top. Potential BC hollow.	
83	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406563	6463466	605	7	no			Tree forked at dbh, measured largest	
304	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406600	6464076	605	10	no				
392	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406713	6464562	605	10	no				
399	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406781	6464595	605	8	no			Tree has multiple forks just below dbh. Measured the largest trunk	
404	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406789	6464621	605	10	no			Forking at dbh, so measured just above, measuring single trunk	
434	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406863	6464976	605	8	no				
536	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407132	6465760	605	10	no				
537	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407137	6465766	605	10	no			Tree forked at dbh, so measured largest trunk just above	
845	1/11/2017	Introduced Eucalypt	407235	6465603	605	12	no				
872	1/11/2017	Introduced Eucalypt	407240	6465443	605	0					
1104	3/11/2017	Marri (<i>Corymbia calophylla</i>)	406761	6464852	605	8	no				
1165	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407131	6466990	605	10	no				
1261	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407143	6466222	605	10	no				
1272	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407112	6466073	605	10	no				
1273	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407103	6466042	605	10	no				
1282	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407023	6465854	605	10	no				
75	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406608	6463683	602	10	no				
293	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406605	6463978	602	10	no				
397	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406719	6464596	602	10	no				
485	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407029	6465440	602	10	no				
977	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407159	6465761	602	8	no				
26	24/10/2017	<i>Allocasuarina Spp</i>	406785	6464465	598	7	no				
91	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406543	6463415	598	10	no				
251	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406487	6463422	598	8	no				
426	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406837	6464841	598	8	no			Recent fire, start of new patch of burnt Marri	
436	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406860	6465004	598	10	no				
78	24/10/2017	Jarrah (<i>Eucalyptus marginata</i>)	406581	6463530	595	10	no				
249	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406490	6463419	595	10	no				
338	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406643	6464446	592	8	no				
350	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406653	6464379	592	8	no			Recent fire, slight burning	
1067	3/11/2017	Introduced Eucalypt	406937	6465750	592	0					
300	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406605	6464043	589	10	no			Tree forked into 3 before dbh, so largest trunk recorded	
359	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406664	6464328	589	8	no				
415	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406805	6464743	589	10	no			Recent fire	
441	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406884	6465066	589	10	no				

FID	DATE	TAXA	EASTING	NORTHING	DBH (mm)	HEIGHT (m)	HOLLOWES	# HOLLOWES	TYPE HOLLOW	COMMENTS	PHOTO REF
557	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407200	6466081	589	9	no			Dead limb, but no hollows	
561	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407212	6466205	589	6	no				
1244	3/11/2017	Jarrah (<i>Eucalyptus marginata</i>)	407151	6466278	589	10	no				
447	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406903	6465132	586	10	no				
463	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406947	6465247	586	10	no				
1090	3/11/2017	Marri (<i>Corymbia calophylla</i>)	406832	6465129	586	10	no				
1277	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407061	6465941	586	10	no				
1199	3/11/2017	Jarrah (<i>Eucalyptus marginata</i>)	407164	6466610	583	10	no				
8	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406833	6464485	579	6	no				
73	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406624	6463740	579	7	no				
93	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406529	6463375	579	10	no				
193	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406217	6463044	579	10	no			Tree forked at dbh, measured largest trunk	
253	24/10/2017	Jarrah (<i>Eucalyptus marginata</i>)	406482	6463435	579	10	no			Tree forked at base measured largest trunk	
308	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406610	6464088	576	10	no				
104	24/10/2017	Jarrah (<i>Eucalyptus marginata</i>)	406442	6463211	573	6	no				
212	24/10/2017	<i>Allocasuarina Spp</i>	406381	6463235	573	6	no				
238	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406465	6463374	573	10	no				
242	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406465	6463383	573	10	no				
450	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406906	6465156	573	10	no				
455	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406913	6465208	573	10	no				
501	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407036	6465464	573	10	no				
504	1/11/2017	Jarrah (<i>Eucalyptus marginata</i>)	407043	6465479	573	10	no				
725	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407180	6466921	573	6	no				
1210	3/11/2017	Jarrah (<i>Eucalyptus marginata</i>)	407170	6466574	573	10	no				
1283	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407021	6465949	573	10	no				
261	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406536	6463583	570	10	no				
90	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406550	6463424	567	10	no				
411	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406800	6464711	567	10	no			Recent fire	
884	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407275	6465357	567	10	no				
1239	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407166	6466354	567	10	no				
207	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406341	6463175	563	10	no				
301	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406616	6464048	563	10	no			Diameter recorded slightly higher due to forking trunks	
497	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406962	6465393	563	10	no				
41	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406692	6464023	560	10	no			Large amount of sap on trunk	
298	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406600	6464020	560	10	no				
391	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406706	6464545	560	10	no				
442	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406885	6465088	560	8	no				
42	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406688	6464008	557	10	no				
62	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406653	6463863	557	10	no				
87	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406552	6463446	557	8	no				
133	24/10/2017	Introduced <i>Eucalypt</i>	406305	6463019	557	12	no				
204	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406327	6463144	557	10	no				
262	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406550	6463687	557	10	no				
310	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406613	6464104	557	10	no				
371	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406688	6464413	557	8	no				
406	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406786	6464634	557	8	no				
408	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406796	6464671	557	10	no			Recent fire	
448	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406904	6465146	557	12	no				
1253	3/11/2017	Jarrah (<i>Eucalyptus marginata</i>)	407155	6466244	557	10	no				
4	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406765	6464520	554	6	no				
35	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406743	6464228	554	8	no				
380	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406645	6464506	554	10	no				
17	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406736	6464350	551	8	no				
452	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406910	6465170	551	10	no				
6	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406770	6464498	547	8	no				
36	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406737	6464219	547	8	no			Tree forked at dbh, measured largest trunk just above	
123	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406326	6463041	547	8	no				
161	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406165	6462906	547	8	no				
414	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406801	6464721	547	10	no			Recent fire	
480	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407013	6465420	547	10	no				
1234	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407164	6466431	547	10	no				
203	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406297	6463130	544	12	no			Small amount of death at top of tree	
498	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406950	6465391	544	10	no				
25	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406772	6464471	541	8	no				
505	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407039	6465483	541	10	no				
530	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407122	6465697	541	8	no				
565	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407220	6466258	541	8	no				
768	1/11/2017	Jarrah (<i>Eucalyptus marginata</i>)	407131	6467094	541	8	no				
1129	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407046	6467204	541	8	no				
1207	3/11/2017	Jarrah (<i>Eucalyptus marginata</i>)	407171	6466590	541	10	no				
306	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406604	6464100	538	10	no				

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396	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406719	6464593	538	8	no				
410	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406796	6464712	538	8	no				
420	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406822	6464796	535	8	no				
465	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406953	6465273	535	8	no				
1240	3/11/2017	Marri (<i>Corymbia calophylla</i>)	407163	6466351	535	10	no				
45	24/10/2017	Jarrah (<i>Eucalyptus marginata</i>)	406676	6463970	532	7	no				
72	24/10/2017	Marri (<i>Corymbia calophylla</i>)	404792	6462951	532	8	no				
423	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406833	6464840	532	8	no				
439	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406871	6465010	532	10	no				
266	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406569	6463784	528	8	no				
401	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406782	6464607	528	8	no				
451	1/11/2017	Jarrah (<i>Eucalyptus marginata</i>)	406909	6465174	528	10	no				
1115	3/11/2017	Marri (<i>Corymbia calophylla</i>)	406736	6464673	528	10	no				
429	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406839	6464890	525	8	no				
122	24/10/2017	Introduced Eucalypt	406332	6463045	525	12	no				
244	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406473	6463392	525	8	no				
532	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407126	6465718	525	8	no				
604	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407231	6466588	525	8	no				
733	1/11/2017	Jarrah (<i>Eucalyptus marginata</i>)	407213	6466935	525	6	no				
1107	3/11/2017	Jarrah (<i>Eucalyptus marginata</i>)	406759	6464806	525	10	no				
74	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406612	6463693	522	10	no				
384	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406645	6464532	522	8	no				
400	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406788	6464607	522	8	no				
18	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406731	6464339	519	6	no				
194	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406247	6463062	519	8	no				
205	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406328	6463147	519	10	no				
280	24/10/2017	Jarrah (<i>Eucalyptus marginata</i>)	406587	6463930	519	8	no				
409	1/11/2017	Marri (<i>Corymbia calophylla</i>)	406805	6464688	519	8	no			Recent fire	
1097	3/11/2017	Marri (<i>Corymbia calophylla</i>)	406788	6464938	519	8	no				
331	24/10/2017	Introduced Eucalypt	406574	6464480	516	0	no				
334	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406641	6464477	516	10	no				
1078	3/11/2017	Marri (<i>Corymbia calophylla</i>)	406961	6465667	516	8	no				
10	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406851	6464457	509	6	no			Recent fire	
233	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406456	6463364	509	10	no				
290	24/10/2017	Jarrah (<i>Eucalyptus marginata</i>)	406592	6463957	509	8	no				
358	24/10/2017	Jarrah (<i>Eucalyptus marginata</i>)	406666	6464342	509	8	no			Tree forked at base, just measured largest trunk	
382	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406635	6464517	509	8	no				
383	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406639	6464528	509	8	no				
538	1/11/2017	Marri (<i>Corymbia calophylla</i>)	407147	6465779	509	8	no				
539	1/11/2017	<i>Allocasuarina</i> Spp	407152	6465816	509	6	no				
1079	3/11/2017	Marri (<i>Corymbia calophylla</i>)	406959	6465652	509	8	no			Forked at dbh, measured single trunk just above	
38	24/10/2017	Flooded gum (<i>Eucalyptus rudis</i>)	406755	6464125	506	10	no			Tree forked at dbh, measured largest trunk	
64	24/10/2017	Jarrah (<i>Eucalyptus marginata</i>)	406650	6463843	506	10	no				
200	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406265	6463085	506	10	no				
389	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406707	6464539	506	10	no				
1	24/10/2017	Marri (<i>Corymbia calophylla</i>)	406798	6464515	503	6	no				



Photo Reference: 1



Photo Reference: 2



Photo Reference: 3



Photo Reference: 4



Photo Reference: 5



Photo Reference: 6



Photo Reference: 7



Photo Reference: 8



Photo Reference: 9



Photo Reference: 10



Photo Reference: 11



Photo Reference: 12



Photo Reference: 13



Photo Reference: 14



Photo Reference: 15



Photo Reference: 16



Photo Reference: 17



Photo Reference: 18



Photo Reference: 19



Photo Reference: 20

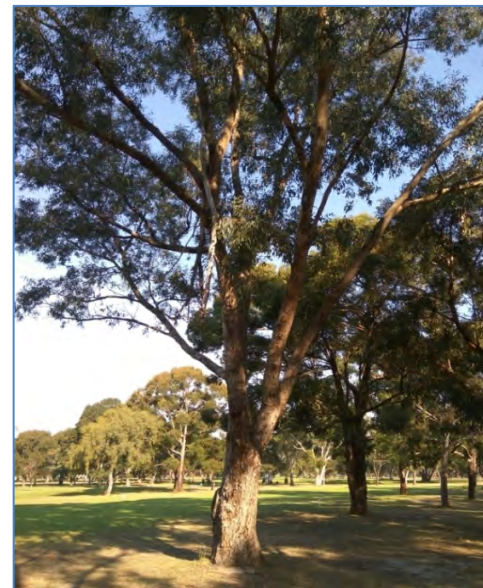


Photo Reference: 21



Photo Reference: 22



Photo Reference: 23



Photo Reference: 24



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