

# Twin Hills Wind Farm

## Basic and Targeted Fauna Survey Report



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# Revision Schedule

| Revision No. | Date       | Description                                         | Prepared by              | Quality Reviewer | Independent Reviewer | Project Manager Final Approval |
|--------------|------------|-----------------------------------------------------|--------------------------|------------------|----------------------|--------------------------------|
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| 2            | 05/03/2025 | Final (V1)                                          | Joseph Sollis            | Paul Bolton      | Paul Bolton          | Paul Bolton                    |
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# Executive Summary

## Background and Objective

Twin Hills Wind Farm Pty Ltd, care of Wind Prospect Pty Ltd (Wind Prospect) commissioned Stantec Australia Pty Ltd (Stantec) to undertake a preliminary fauna site inspection and two basic and targeted fauna surveys (collectively, 'the Survey') of the Twin Hills Survey Area (the Survey Area) between October 2023 and October 2024. The Survey Area encompasses 9,993 hectares (ha) and is located approximately 260 kilometers (km) north of Perth in the Geraldton Sandplains Bioregion of Western Australia (WA). 12,769 ha of additional area (hereafter, 'Additional Area') was surveyed during the Survey. Information from the Additional Area, including habitat mapping and species records, has been provided for local context. Additionally, survey effort was conducted in two nature reserves in close proximity to the Survey Area.

The objective of this work was to conduct a desktop assessment, preliminary fauna site inspection (9<sup>th</sup> to 13<sup>th</sup> October 2023) and basic and targeted fauna surveys (23<sup>rd</sup> February to 1<sup>st</sup> March 2024; 21<sup>st</sup> to 29<sup>th</sup> October 2024) with the aim to enhance and contextualise the level of fauna knowledge at the local scale, and to understand the presence and use of the Survey Area by significant fauna. Survey dates were selected based on the optimal timing for significant fauna, including Carnaby's Black-Cockatoo nesting season October. The focus of the Survey was on understanding the occurrence and utilisation of the following significant fauna species (their conservation status under the BC Act 2016 and EPBC Act 1999, respectively) within the Survey Area:

- Carnaby's Black-Cockatoo (*Zanda latirostris*) (En; En);
- Western Spiny-tailed Skink (*Egernia stokesii badia*) (Vu; En);
- Malleefowl (*Leipoa ocellata*) (Vu; Vu);
- Black-striped Snake (*Neelaps calonotos*) (P3);
- Western Brush Wallaby (*Notamacropus irma*) (P4);
- Grey Falcon (*Falco hypoleucos*) (Vu; Vu);
- Southern Whiteface (*Aphelocephala leucopsis*) (Vu);
- Peregrine Falcon (*Falco peregrinus*) (OS);
- Heath Shield-backed Trapdoor Spider (*Idiosoma kwongan*) (P1);
- *Bothriembryon perobesus* (Terrestrial Snail) (P1); and
- Woollybush Bee (*Hylaeus globuliferus*) (P3).

Supplementary targeted fauna survey effort was also conducted during the separate bird and bat utilisation surveys (BBUS). Relevant survey effort and species records from BBUSs are consolidated within this report.

## Significant Species

The desktop assessment comprised eight database searches and the review of seven fauna surveys completed in the vicinity of the Survey Area. In total, 38 significant vertebrate fauna species and seven significant invertebrate fauna species listed under the EPBC Act 1999 or the BC Act 2016 were identified as having potential to occur within the Survey Area.

During the Survey and BBUSs, two significant fauna species were recorded: Carnaby's Black-Cockatoo and Peregrine Falcon. Flocks of up to 350 Carnaby's Black-Cockatoos were observed during the BBUSs, and it is estimated that up to 400 individuals may utilise the Survey Area at any time. Carnaby's Black Cockatoos have been observed foraging in Diverse Shrubland and Heath habitat throughout the Survey Area, and on cones of introduced *Pinus radiata* beside a homestead. Additionally, the large flock of 350 individuals was observed roosting in nature reserve R 12705, approximately 2 km north of the Survey Area. This location had not previously been recorded as a roost according to desktop database searches. In total, 336 suitable and 896 potential breeding trees have been identified in the Survey Area. Additionally, 615



suitable and 1,795 potential breeding trees were identified in the Additional Area and 45 suitable and 173 potential breeding trees were identified in adjacent nature reserves and road reserves. Although Carnaby's Black-Cockatoos have not been observed breeding or nesting within the Survey Area, a Red-tailed Black-Cockatoo *Calyptorhynchus banksii esconditus* (not a significant species) was observed roosting or sheltering in a hollow in a dead *Eucalyptus accedens* (Powderbark Wandoo) indicating that these hollows are utilised by Black-Cockatoo species. Powderbark Wandoo is common throughout the Survey Area. Additional detail on flight patterns and heights are provided in the BBUS Report.

The Peregrine Falcon was observed foraging within the Survey Area near the north-eastern boundary. Additionally, one long unused Malleefowl mound was recorded within the Survey Area, in Low Eucalypt Woodland. The mound was approximately 2.5m x 1m, with a low, flat profile and no evidence of recent use. Small pieces of eggshell and a thin layer of incubating material were observed but did not appear recent. Based on the age of the mound, the lack of other mounds/activity within the Survey Area, and the age/prevalence of records of Malleefowl in the vicinity of the Survey Area from the Desktop assessment, this species was assessed as possible to occur within the Survey Area.

## Survey Effort

Within the Survey Area, survey effort consisted of 14 habitat assessments (including Carnaby's Black-Cockatoo (En; En) foraging scores), two microhabitat assessments, over 1,200 trees assessed for Carnaby's Black-Cockatoo breeding or roosting potential, seven motion cameras (45 nights total), five transects (all five in Western Spiny-tailed Skink (Vu; En) and Malleefowl habitat (Vu; Vu); approximately 20 person-hours), 12 targeted searches for Black-striped Snake (P3) (12 person-hours), 12 significant invertebrate searches (12 person-hours), and opportunistic records of vertebrate fauna species. Additionally, the following survey effort was conducted within the Additional Area and nature reserves: 25 habitat assessments (including Carnaby's Black-Cockatoo foraging scores), nine microhabitat assessments, over 2,400 trees assessed for Carnaby's Black-Cockatoo breeding or roosting potential, 14 motion cameras (69 nights total), 11 transects (all 11 in Western Spiny-tailed Skink habitat, nine in Malleefowl habitat; approximately 44 person-hours), four targeted searches for Black-striped Snake (four person-hours), 12 significant invertebrate searches (12 person-hours), and opportunistic records of vertebrate fauna species.

A total of 137 vertebrate fauna species were recorded in the Survey Area during the Survey and BBUSs. Two native species (the Northern Free-tailed Bat (*Ozimops lumsdenae*), Inland Broad-nosed Bat (*Scotorepens balstoni*)) and two introduced species (Black Rat (*Rattus rattus*) and Pig (*Sus scrofa*)) had not been previously identified during the desktop assessment. The 137 species recorded during the Survey comprised 10 native mammals, five introduced mammals, 113 native birds, one introduced bird, seven reptiles and one amphibian.

## Fauna Habitats

Seven broad fauna habitat types were described and mapped within the Survey Area and were considered typical of the Geraldton Sandplains Bioregion. Remnant fauna habitat collectively comprises 2,448 ha (24.85 %) of the Survey Area, with the remaining 7,416 ha, (74.21 %) being Cleared (paddock/crop/infrastructure). The intact habitats in order of extent comprised: Diverse Shrubland and Heath (1,991 ha, 19.93 %); Open Woodland on Farmland (244 ha, 2.44 %); Low Eucalypt Woodland (142 ha, 1.42 %); Shrubland on Lateritic Ridge/Outcrop (166 ha, 1.66 %); Wetland (22 ha, 0.22 %); and Minor Drainage Line (12 ha, 0.12 %). Two microhabitats were also identified on Cleared land: Planted Trees; and Farm Dams. An additional habitat, River Red Gum Forest, was recorded in the Additional Area.

## Summary

In summary, habitat assessments and mapping resulted in the description and delineation of seven broad habitats for the Survey Area. A total of 137 terrestrial fauna species were recorded in the Survey Area and Additional Area, representing 41.02 % of the 334 species identified in the desktop assessment. Two significant vertebrate fauna species were confirmed and a further five are considered likely to occur within the Survey Area and Additional Area. A further eight significant species were considered possible to occur within the Survey Area and Additional Area and 30 were classified as unlikely to occur on the basis of the desktop assessment. One significant species recorded, Carnaby's Black-Cockatoo, is threatened under the EPBC Act and are therefore considered a matter of national environmental significance (MNES).



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# 1. Introduction

## 1.1 Project Description

Stantec Australia Pty Ltd (Stantec) was engaged by Twin Hills Wind Farm Pty Ltd, care of Wind Prospect Pty Ltd (Wind Prospect) to undertake technical ecological work to inform the development application process for the proposed Twin Hills Wind Farm development (the Project).

The Twin Hills Survey Area (the Survey Area) is located in the Geraldton Sandplains bioregion of Western Australia (WA) (**Figure 1-1**) approximately 260 kilometers (km) north of Perth. The Survey Area is comprised of 9,993 hectares (ha) of land that is primarily cleared for crops and livestock grazing with interspersed patches of remnant native vegetation. 12,769 ha of additional area (hereafter, 'Additional Area') was surveyed during the Survey. Information from the Additional Area, including habitat mapping and species records, has been provided for local context. Additionally, survey effort was conducted in two nature reserves in close proximity to the Survey Area. The proposed wind turbines and ancillary permanent and temporary infrastructure associated with the wind farm are to be established within the Survey Area, not within the Additional Area. An adjacent land parcel proposed as a potential site for supporting (non-turbine) infrastructure was included following the completion of the Survey, and was assessed during a separate site visit (**Appendix F**).

## 1.2 Objectives and Scope

The objective of this work was to conduct a desktop assessment, preliminary site inspection and basic and targeted fauna survey with the aim to enhance and contextualise the level of fauna knowledge at the local scale, and to understand the presence and use of the Survey Area by significant fauna.

To achieve this objective, the scope of work was to:

- Conduct a desktop assessment, involving:
  - Database searches and literature review to develop a list of fauna species and habitats that have been recorded within and in the vicinity of the Survey Area, including a likelihood of occurrence assessment for species of significance; and
  - Preliminary mapping of fauna habitats, including the identification of habitats with potential to support species of significance.
- Undertake a preliminary fauna site inspection of the Survey Area to inform planning fauna surveys in 2024, involving:
  - Habitat assessments to describe broad fauna habitats, with a focus on identifying those of importance to significant fauna;
  - Identification of suitable sites for future fauna survey work; and
  - Recording all vertebrate fauna species identified via opportunistic sightings.
- Undertake a basic and targeted fauna survey, involving:
  - Completion of habitat assessments to describe and delineate the broad fauna habitats present within the Survey Area;
  - Completion of black cockatoo habitat assessments and foraging scores for each of the habitats in the Survey Area;
  - Targeted survey work using methods to detect significant species assessed as confirmed, likely or possible to occur based on the outcomes of the desktop assessment; and
  - Recording all vertebrate fauna species within the Survey Area identified via opportunistic sightings.



- Deliver a technical memorandum/report which presents the findings of the desktop study and field surveys and provide comparison with available data within the bioregion.

In addition to the fauna site inspection, supplementary targeted fauna survey effort and species records from separate bird and bat utilisation surveys (BBUS) (Stantec 2025) are also incorporated within the results of this report. Consequently, this report presents a consolidation of knowledge about the occurrence of terrestrial fauna as it relates to the Survey Area.

## 1.3 Regulatory Guidelines

Recommended survey approaches will be aligned with the following guidelines and technical documents:

- Onshore Wind Farms – interim guidance on bird and bat management (DAWE 2021);
- EPBC Act Policy Statement 2.3 Wind Farm Industry (DEWHA (2009);
- Best Practice Guidelines – For Implementation of Wind Farm Energy Projects in Australia (Auswind 2006);
- Environmental Factor Guideline – Terrestrial Fauna (EPA 2016b);
- Technical Guidance: Terrestrial vertebrate fauna surveys for environmental impact assessment (EPA 2020);
- Significant Impact Guidelines – Matters of National Environmental Significance (DoE 2013);
- Statement of Environmental Principles, Factors, Objectives and Aims of EIA (EPA 2023);
- Survey Guideline for Australia's Threatened Birds (DEWHA 2010);
- Survey Guidelines for Australia's Threatened Mammal (DSEWPaC 2011b);
- Survey Guidelines for Australia's Threatened Reptiles (DSEWPaC 2011a);
- Referral Guideline for 3 WA Threatened Black-Cockatoo Species (DAWE 2022a);
- National Malleefowl Monitoring Manual: Standards, Protocols and Monitoring Procedures (National Malleefowl Recovery Team 2020); and
- National Recovery Plan for the Malleefowl (*Leipoa ocellata*) (DCCEEW 2024a).



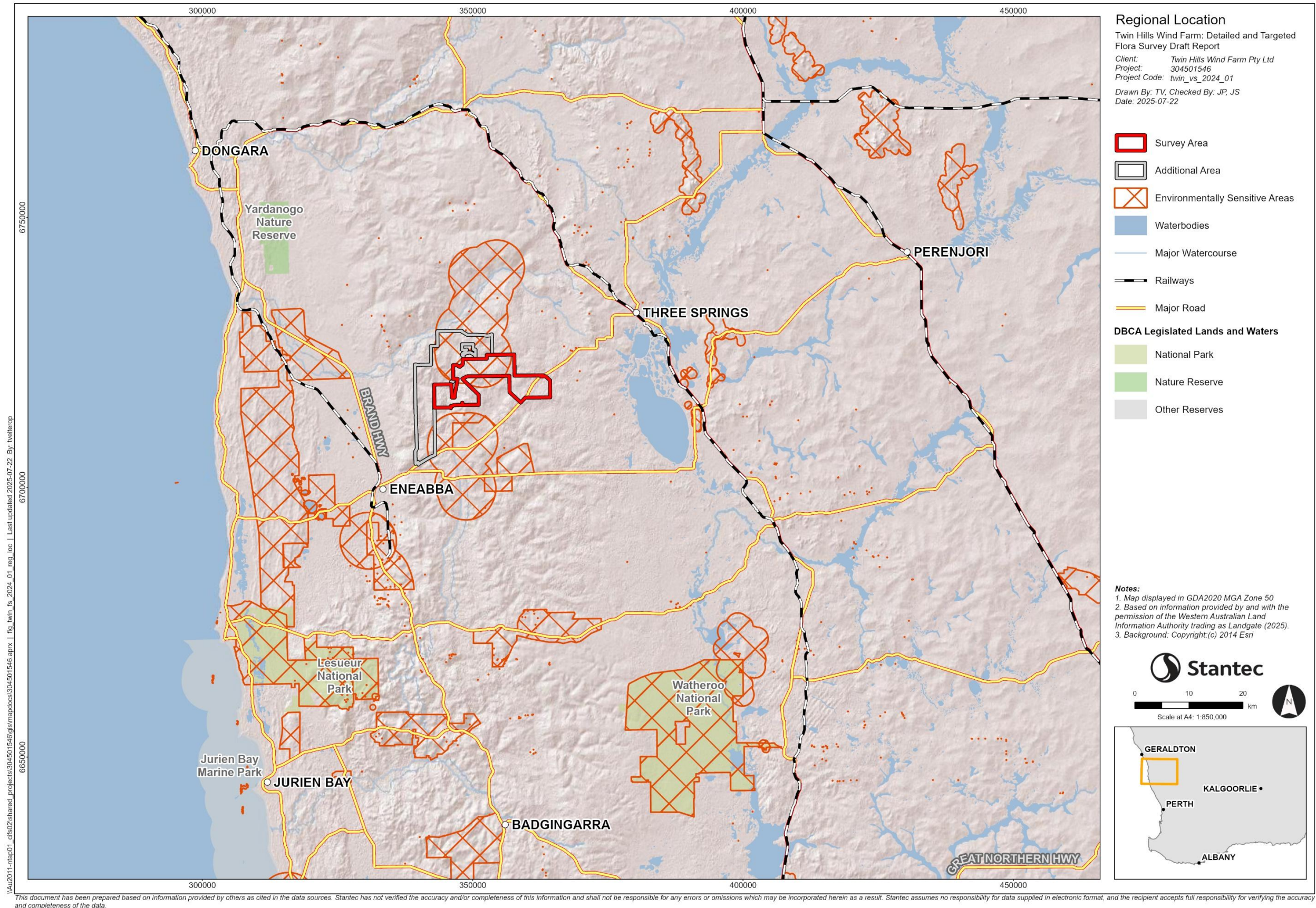


Figure 1-1: Regional location of the of the Survey Area.

## 2. Existing Environment

### 2.1 Biophysical Environment

#### 2.1.1 Biogeographical Location

The Survey Area is located within the Lesueur Sandplain subregion of the Geraldton Sandplains bioregion (GES67), as defined by the Interim Biogeographic Regionalisation of Australia (IBRA) (**Figure 2-1**). The Geraldton Sandplains bioregion covers an area of 3,142,149 ha (DAWE 2022b) and comprises the central and northern Perth Basin, the Pinjarra Orogen, and the south end of the Carnarvon Basin (McKenzie *et al.* 2003). The bioregion is characterised by semi-arid warm Mediterranean conditions supporting mainly proteaceous scrub heaths, rich in endemics, with extensive York Gum and Jam woodlands on outwash plains associated with drainage (Thackway and Cresswell 1995).

The Lesueur Sandplain subregion encompasses 1,172,152 ha within the Geraldton Sandplains bioregion, comprising a mosaic of lateritic mesas, sandplains and coastal sands on Jurassic siltstones and sandstones of the central Perth Basin (DAWE 2022b). The dominant land-use in the subregion is dry-land agriculture (69.34%), with lesser areas of conservation (17.6%) and Unallocated Crown Land and Crown Reserves (12.5%) (Desmond and Chant 2001). The subregion exhibits extremely high floristic endemism, with a large number of distinct, species rich and geographically restricted communities occurring in the Mt Lesueur and Coomallo area (Desmond and Chant 2001).

#### 2.1.2 Land Systems

Land systems are defined as an area or group of areas throughout which there is a recurring pattern of topography, soils and vegetation (Tille 2006). An understanding of land systems provides an indication of the occurrence and distribution of vegetation types and fauna habitats within and surrounding the Survey Area.

Four land systems were identified as occurring within the Survey Area (**Table 2-1**), typically comprising undulating sandplains, lateritic plateaus and breakaways, rises and low hills, and sandy drainage lines and springs (**Table 2-1; Figure 2-2**). These land systems support a range of vegetation including scrub heath, and *Eucalyptus tottiana* and Banksia woodland (**Table 2-1**). One additional land system occurs within the Additional Area (**Table 2-1**).

**Table 2-1: Description of land systems and their extent within the Survey Area.**

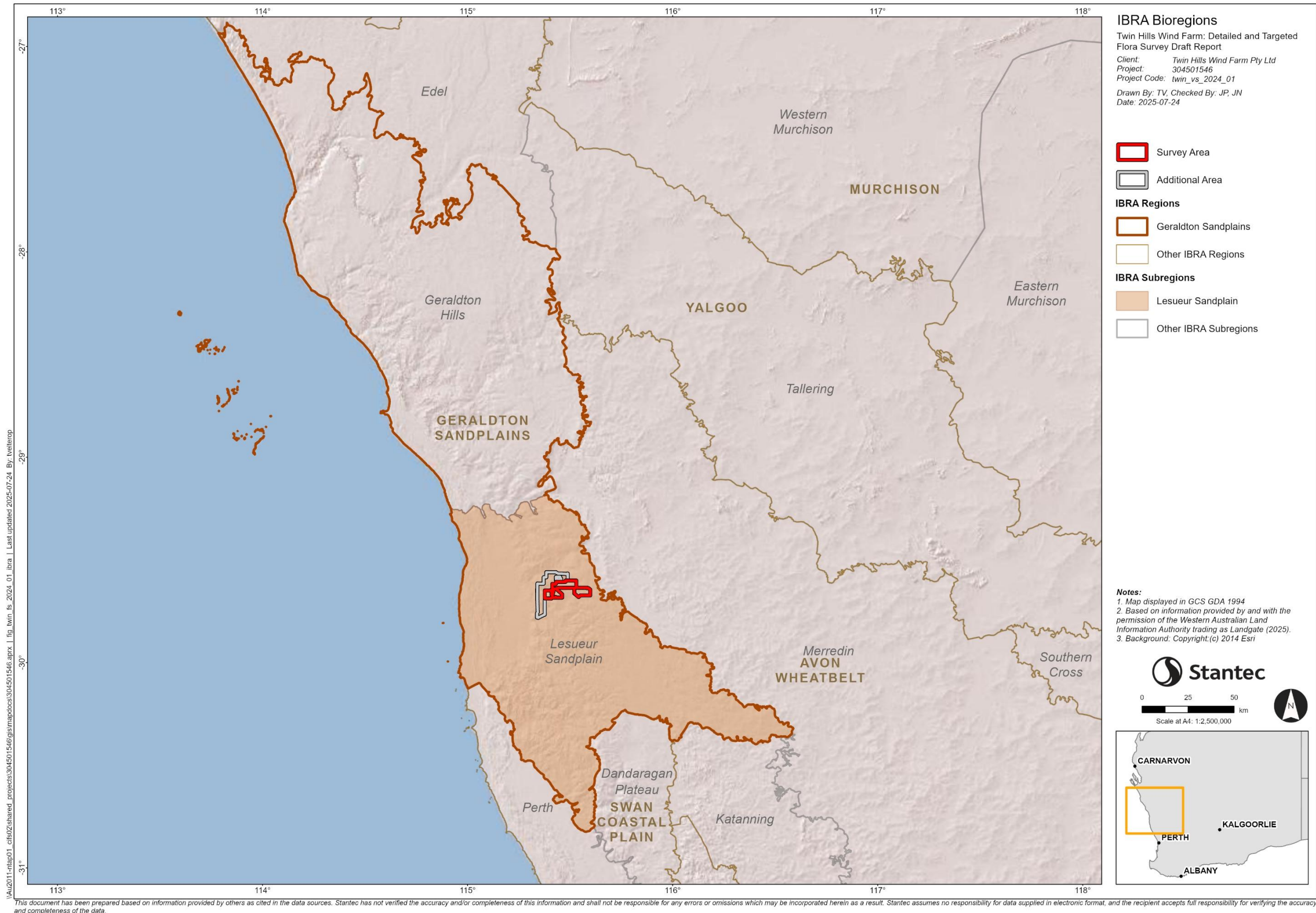
| Land System               | Description                                                                                                                                                      | Land System Vegetation                                                           | Extent in the Survey Area |       | Extent in the Additional Area |       |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------|-------|-------------------------------|-------|
|                           |                                                                                                                                                                  |                                                                                  | ha                        | %     | ha                            | %     |
| <b>Coalara System</b>     | Partially dissected plateau with lateritic caps and intervening sandy drainage lines; Pale and yellow deep sand, sandy gravels and sand over gravel              | Heath, scrub heath with Banksia and <i>Eucalyptus tottiana</i> open low woodland | 6,424.98                  | 64.29 | 92.63                         | 0.73  |
| <b>Otorowiri System</b>   | Undulating to rolling sandplain and low hills. Gentle to moderately steep valley sides at margins of Mooladara Hill System. Spring lines are a common occurrence | <i>Eucalyptus tottiana</i> woodland with river red gum woodland in valley floors | 2,515.35                  | 25.17 | 2,020.47                      | 15.82 |
| <b>Mount Adams System</b> | Gently undulating sandplain with low gravel ridges and occasional laterite breakaways.                                                                           | Scrub heath                                                                      | 1,045.98                  | 10.47 | 9,275.73                      | 72.64 |



| Land System                  | Description                                                                                                                                                                                                                                      | Land System Vegetation                                                                             | Extent in the Survey Area |            | Extent in the Additional Area |            |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------|------------|-------------------------------|------------|
|                              |                                                                                                                                                                                                                                                  |                                                                                                    | ha                        | %          | ha                            | %          |
| <b>Mooladara Hill System</b> | Sandplain with dissected lateritic outcrops on margins and prominent dry valleys and drainages; west of Three Springs; Yellow, pale and brown deep sands, sand over gravel, minor sandy gravel, sandy duplexes; Banksia woodland and scrub heath | Banksia woodland and scrub heath                                                                   | 6.97                      | 0.07       | 1,015.74                      | 7.95       |
| <b>Boothendarra System</b>   | Subdued stripped lateritic plateau, undulating and gently undulating rises; Sandy duplexes, pale deep sand, sandy and loamy gravels and minor clays                                                                                              | Wandoo woodland, <i>Eucalyptus tottiana</i> and Banksia low open woodland, scrub heath some mallee | 0                         | 0          | 364.08                        | 2.85       |
| <b>Total</b>                 |                                                                                                                                                                                                                                                  |                                                                                                    | <b>9,993.28</b>           | <b>100</b> | <b>12,771.22</b>              | <b>100</b> |

\*Exceeds total area shown elsewhere due to differing coordinate reference system





**Figure 2-1: IBRA bioregions and subregions associated with the Survey Area.**

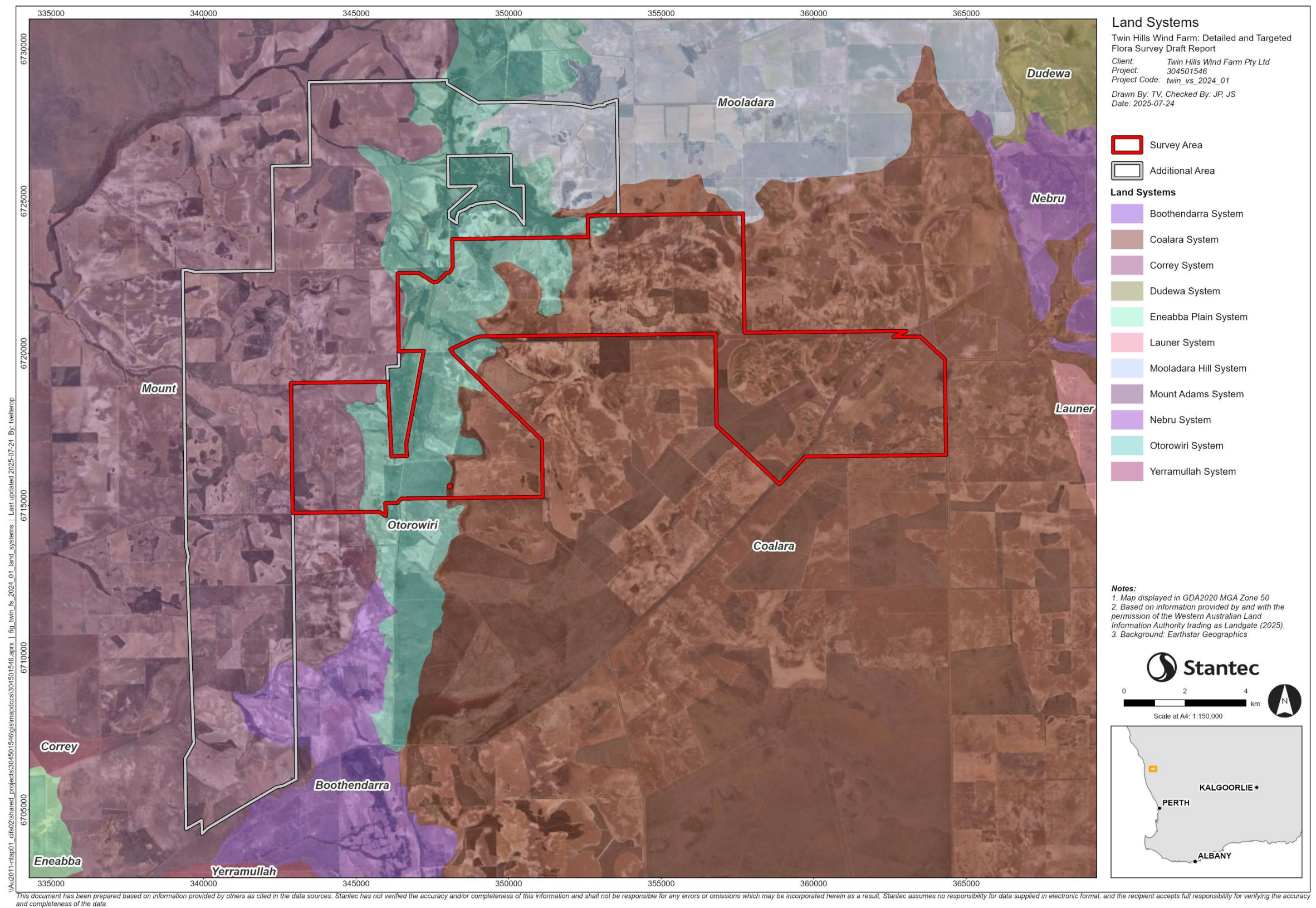


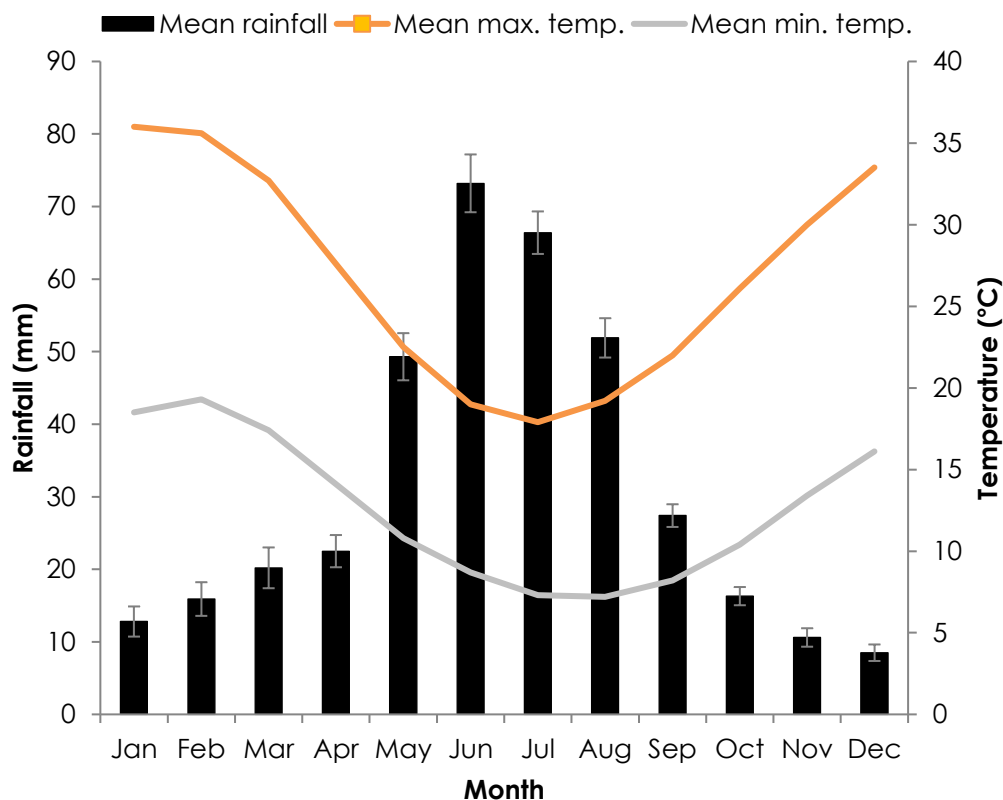
Figure 2-2: Land systems of the Survey Area.

## 2.2 Physical Environment

### 2.2.1 Climate

The Survey Area is located within the Lesueur subregion of the Geraldton Sandplains Bioregion of Western Australia, which is characterized by a semi-arid Mediterranean climate (**Section 2.1.1**). The nearest active Bureau of Meteorology (BoM) weather station with long term rainfall data is Carnamah Station (station no. 008025), which is approximately 35 km east of the Survey Area. Based on the long-term rainfall data from Carnamah Station, the mean annual rainfall since 1901 is 376.2 mm. The majority of rainfall is in winter, between the months of May and August (BoM 2023).

Carnamah Station is also the nearest BoM weather station with long-term temperature data. Based on the long-term temperature data from Carnamah Station, the warmest months of the year are between November and March, with daily maximum temperatures averaging above 30°C (**Figure 2-3**). The coolest months occur during winter are from June to August, with minimum temperatures consistently falling below 9°C. The long-term mean maximum temperature since 1901 is 26.8°C, and the long-term mean minimum temperature is 12.6°C (BoM 2023).

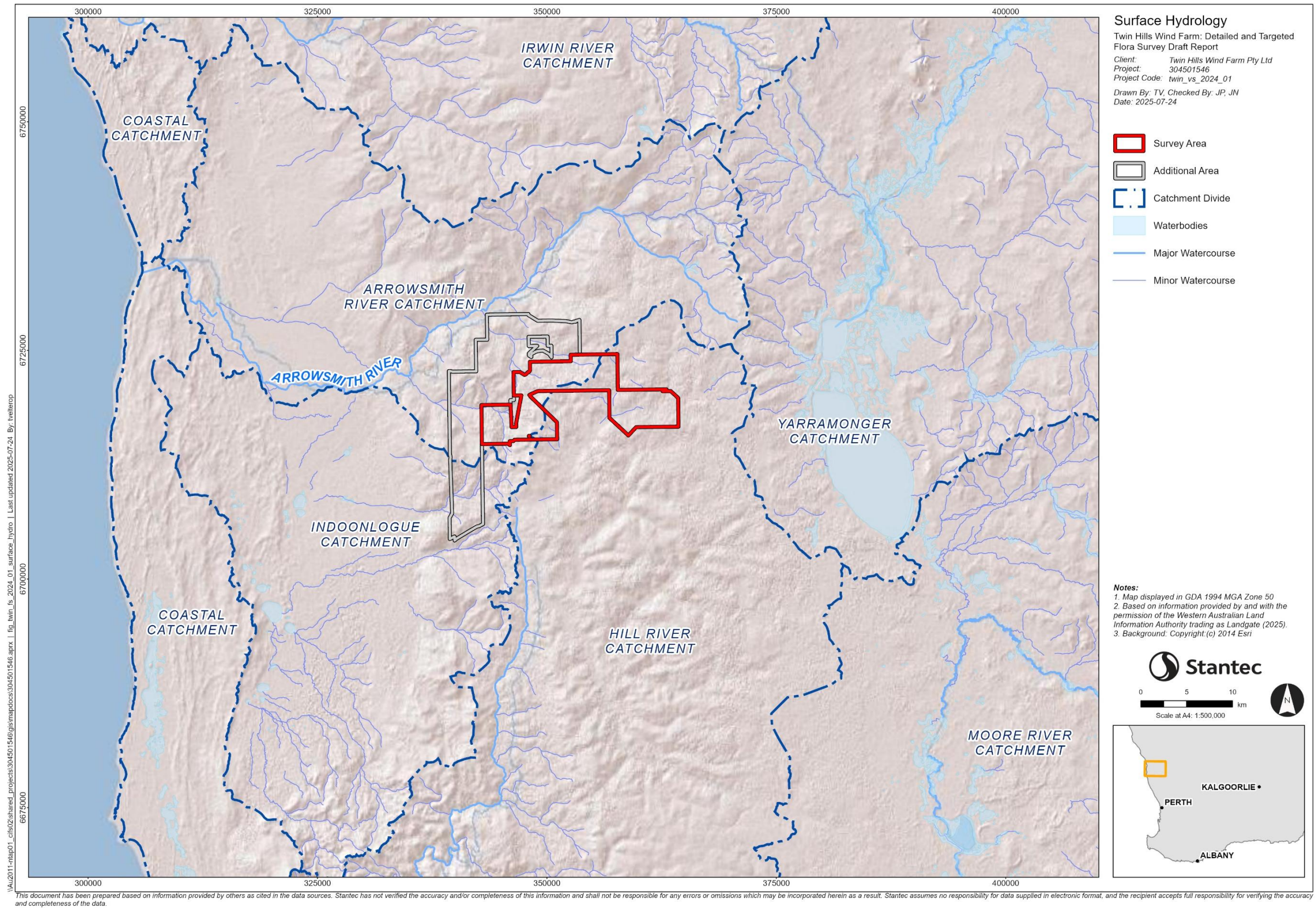


**Figure 2-3: Long-term (1901-2023) rainfall (mm) and temperature (°C) from the Carnamah Weather Station (No.008025) (BoM 2023).**

### 2.2.2 Surface Water and Hydrology

The Survey Area occurs within the Arrowsmith River Catchment and the Hill River Catchment. The southern extension of the Additional Area is within the Indoonlogue Catchment. The Survey Area does not intersect the Arrowsmith River or any other major watercourses, but it does intersect numerous smaller tributaries (**Figure 2-4**).





**Figure 2-4: Surface hydrology in relation to the Survey Area.**

## 2.2.3 Conservation Reserves and Environmentally Sensitive Areas

### 2.2.3.1 National Parks, Nature Reserves and other Protected Areas

The Survey Area does not directly overlap with any conservation reserves, however one small unnamed nature reserve (R 48098) borders the Survey Area (**Figure 2-5**). The next closest conservation reserves are R 12705 (450 m north, bounded by the Additional Area), Wilson Nature Reserve (adjacent to the north of the Additional Area) and Depot Hill Nature Reserve (adjacent to the south of the Additional Area). Other conservation reserves in the vicinity of the Survey Area include the Wotto Nature Reserve (1.5 km south of the Survey Area), White Gums Nature Reserve (7.5 km south), Tathra National Park (10 km south-east), and Leda Nature Reserve (10 km east) (DCCEEW 2020).

### 2.2.3.2 Environmentally Sensitive Areas

It is an offence under the *Environmental Protection Act 1986* (EP Act) to clear native vegetation unless under a clearing permit or where an exemption applies. Under section 51B of the EP Act the Minister for Environment may declare an area or class of areas to be an Environmentally Sensitive Area (ESA). Once declared, the exemptions to clear native vegetation under the regulations do not apply in these areas unless the clearing is a requirement by law. The types of areas which are declared as ESAs are listed in the Environmental Protection (Environmentally Sensitive Areas) Notice 2005 (Government of Western Australia 2005), but one example is any area covered by a threatened ecological community (TEC).

The Survey Area intersects the buffers of two ESAs, both declared due to the presence of the TECs '*Ferricrete floristic community (Rocky springs type)*'; and '*Assemblages of organic mound springs of the Three Springs area*' (DWER 2023) (**Figure 2-5**). The buffer for the Ferricrete TEC covers an approximate area of 17,000 ha and intersects a small area of the southern extension of the Survey Area. The buffer for the mound springs TEC covers an approximate area of 32,000 ha and overlaps with the northern extent of the Survey Area.

There is an ESA for a declared rare flora (50 m buffer) within a segment of DBCA managed land, which is surrounded by the Survey Area but does not directly overlap it.

## 2.2.4 Land Tenure and Use

The Survey Area is within the Shire of Three Springs. The southern extent of the Additional Area is within the Shire of Carnamah. Land uses within Survey Area are predominantly cropping and paddock. The major land uses in the Geraldton Sandplains, in order of extent, are dry land agriculture, conservation, grazing of native pastures and other Crown Lands (**Figure 2-6**) (McKenzie *et al.* 2003). Non-exclusive native title exists over the whole of the Survey Area, as determined by the Yamatji Nation tribunal case 9,993 ha or 100% of the Survey Area) (National Native Title Tribunal 2022).



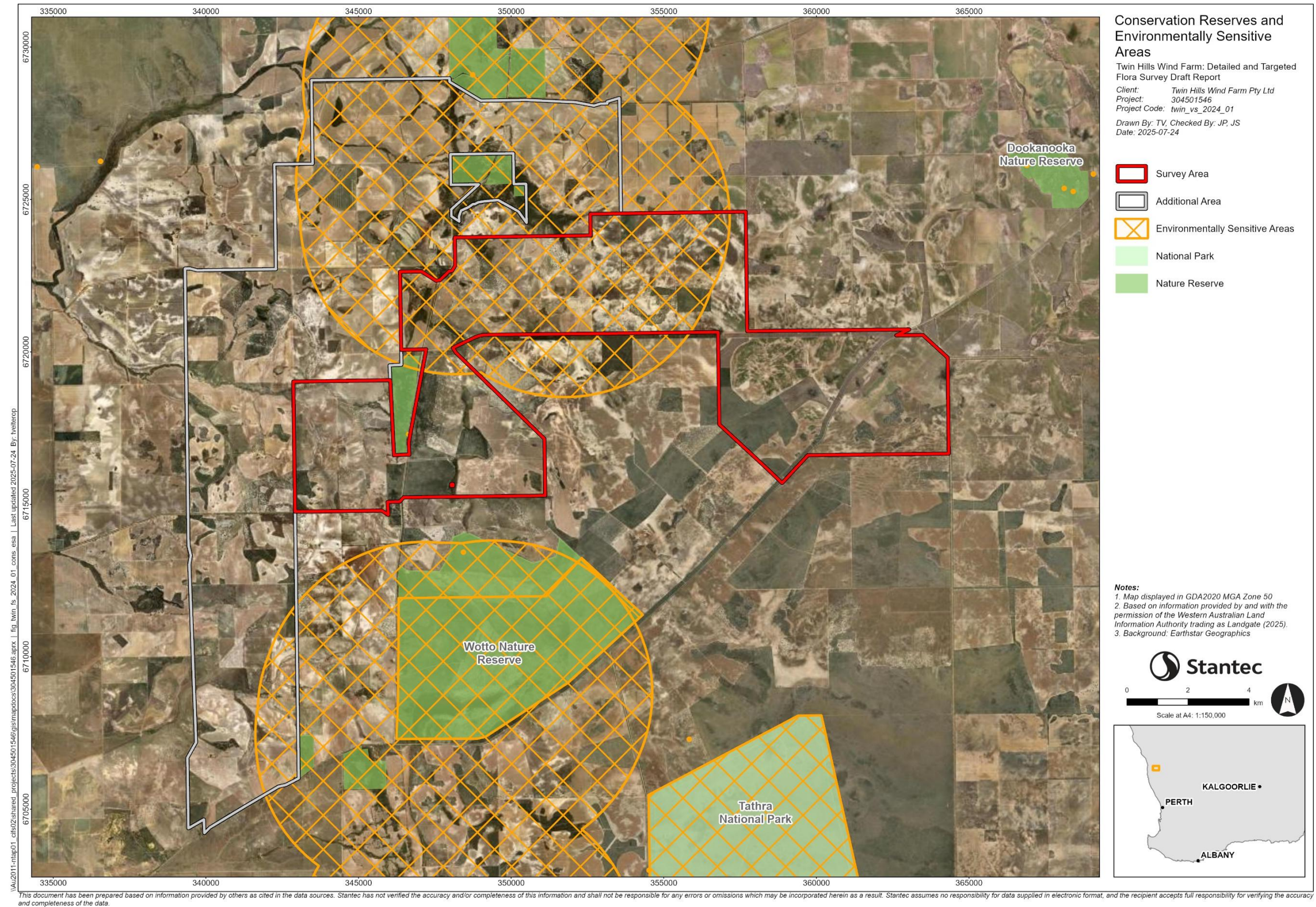


Figure 2-5: Conservation reserves and environmentally sensitive areas in relation to Survey Area.

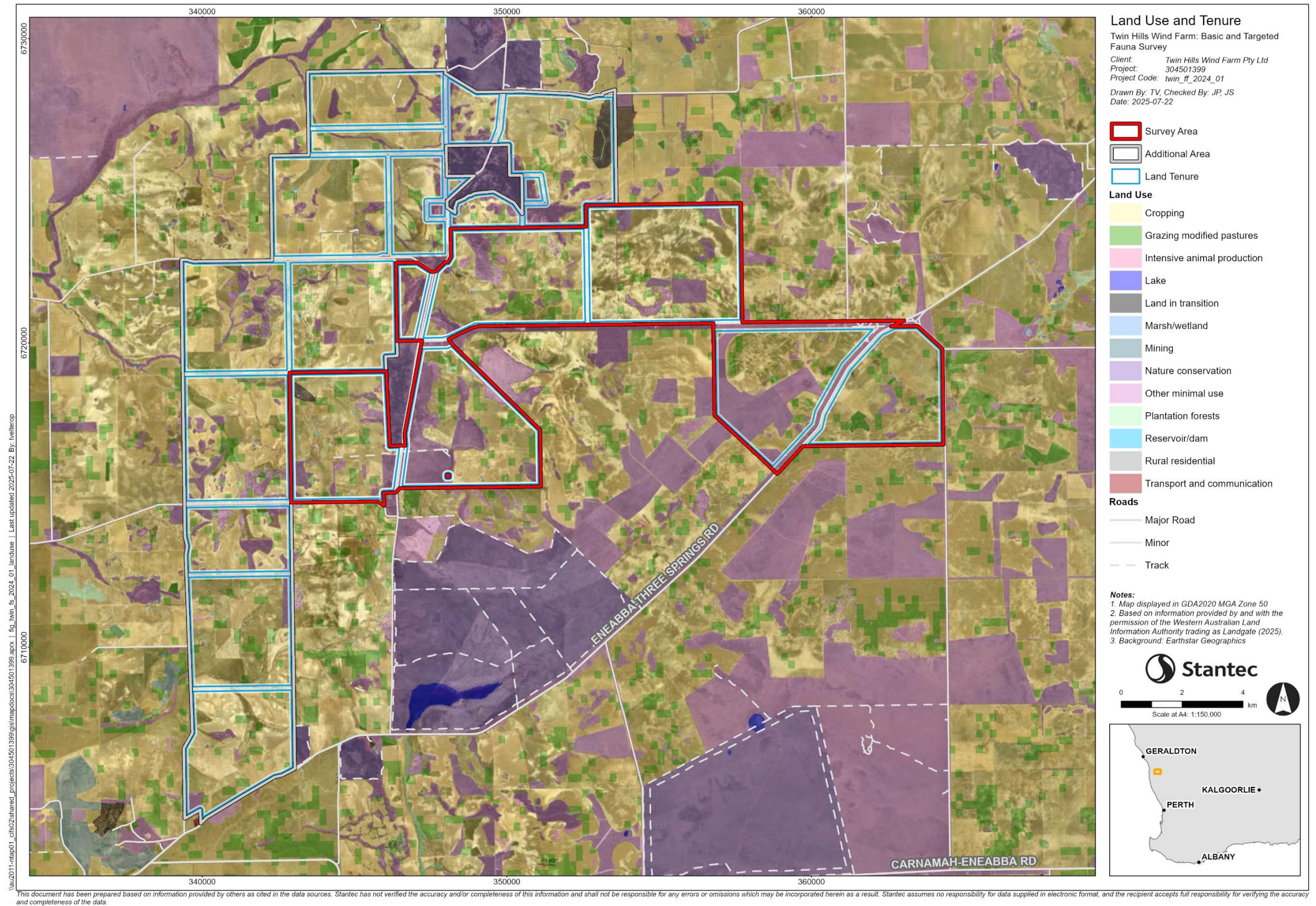


Figure 2-6: Land use in relation to the Survey Area.

## 3. Desktop Assessment

### 3.1 Approach and Context

A desktop assessment, comprising database searches and a literature review, was undertaken to gather contextual information on the relevance of the Survey Area for fauna and their habitats, particularly in relation to significant fauna. The objective of the desktop assessment was to identify significant fauna potentially occurring within, and in the vicinity of the Survey Area. Definitions for 'significant' fauna are provided in **Appendix A**.

Significance and rankings used are consistent with the *Environmental Protection and Biodiversity Conservation Act 1999* (Cth) (EPBC Act), *Biodiversity Conservation Act 2016* (WA) (BC Act), as well as the Department of Biodiversity, Conservation and the Attractions (DBCA) priority list (**Appendix A**). The objective of the literature review was to review recent approvals in the area to understand the regional context of fauna and habitat records, methods and survey effort used.

### 3.2 Desktop Methods

#### 3.2.1 Database Searches

Database searches were completed to generate a list of terrestrial fauna previously recorded within, and in the vicinity of the Survey Area, with an emphasis on species of significance. Eight database searches were conducted according to the Survey Area shapefile, a central coordinate within the Survey Area (-29.64952, 115.41003) or coordinates of the top left and bottom right corners of the Survey Area (**Table 3-1**). Appropriate search buffers were applied depending on the technical capabilities (maximum buffer, accuracy of data) of the databases and the ecological features of the Survey Area.

**Table 3-1: Database searches conducted for the desktop assessment.**

| Custodian                 | Database name                             | Method of search                                | Buffer |
|---------------------------|-------------------------------------------|-------------------------------------------------|--------|
| DBCA (2023b)              | NatureMap                                 | Central Point                                   | 40 km  |
| DCCEEW (2024b)            | Protected Matters Search Tool             | Survey Area shapefile                           |        |
| DBCA (2023a)              | Threatened and Priority Fauna             |                                                 |        |
| Birdlife Australia (2023) | Birdlife Bird Data                        |                                                 |        |
| ALA (2023)                | Occurrence Search                         |                                                 |        |
| WA Museum (2023b)         | Arachnid and Diplopod Collection Database | Coordinates of top left and bottom right points | 100 km |
| WA Museum (2023a)         | Mollusc Collection Database               |                                                 |        |
| WA Museum (2023c)         | Crustacea Collection Database             |                                                 |        |

#### 3.2.2 Literature Review

The literature review consisted of seven previous terrestrial fauna surveys undertaken within 30 km of the Survey Area between 2012 and 2021, comprised of:

- Bamford (2022b), Arrowsmith Hydrogen Project Black-Cockatoo Assessment;
- Bamford (2022a), Fauna Assessment of Arrowsmith North;



- Strategen (2021), Ocean Hill 3D Seismic Survey: Terrestrial Fauna and Black Cockatoo Habitat Assessment; and
- Western Wildlife (2021), Eneabba Phase 3 Project: Basic Vertebrate Fauna Survey and Cockatoo Habitat Survey;
- Bancroft and Bamford (2020), Beach Energy's Zemira 3D Seismic Survey: Fauna Values Assessment;
- Infinite Green Energy (2020), Arrowsmith Hydrogen Project AHP1 Fauna Management Plan; and
- ENV Australia (2013), Preliminary Flora and Vegetation and Fauna Assessment of Twin Hills and One Tree Hill, Eneabba.

Two of these surveys (Bancroft and Bamford 2020; ENV Australia 2013) intersect the Survey Area (**Figure 3-1**). A summary of the survey timing, methods, and results of these surveys are presented in **Table 3-2**.



**Table 3-2: Fauna surveys completed in the vicinity of the Survey Area.**

| Reference               | Survey Details                                                                                                                                                                                                                            | Proximity to Survey Area        | Area (ha) | Survey Timing                                                                                                                                                                                                                                       | Survey Effort                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Fauna Habitats                                                                                                                                                                                                                                                                                                     | Fauna Assemblages Recorded                                                                                                                                                        | Significant Species recorded                                           | Limitations                                                                                                                                |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Bamford (2022b)         | <b>Project:</b><br>Arrowsmith Hydrogen Project<br><br><b>Client:</b><br>Arrowsmith<br><br><b>Survey Type:</b><br>Black-Cockatoo Assessment                                                                                                | 28 km north-west of Survey Area | 1,930     | 5 <sup>th</sup> – 6 <sup>th</sup> December 2021<br><br>(2 days)                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>3 hours site visit by five black-cockatoo specialists:               <ul style="list-style-type: none"> <li>Identify foraging habitat</li> <li>Evening observations from several vantage points</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                               | 4 habitat types were identified: <ul style="list-style-type: none"> <li>Acacia shrubland</li> <li>Banksia woodland/Shrubland</li> <li>Eucalypt woodland</li> <li>Heathland</li> </ul>                                                                                                                              | 2 bird species: <ul style="list-style-type: none"> <li>Carnaby's Black-Cockatoo</li> <li>Inland Red-tailed Black-Cockatoo (<i>Calyptrorhynchus banksii esconditus</i>)</li> </ul> | Carnaby's Black-Cockatoo                                               | Not Stated                                                                                                                                 |
| Bamford (2022a)         | <b>Project:</b><br>Arrowsmith North Project Fauna Assessment<br><br><b>Client:</b><br>Arrowsmith<br><br><b>Survey Type:</b><br>Basic and Targeted Fauna Surveys with systematic trapping at selected locations, Black-Cockatoo Assessment | 26 km north-west of Survey Area | 1,726     | 18 <sup>th</sup> November 2018<br><br>(1 day)<br><br>23 <sup>rd</sup> – 25 <sup>th</sup> October 2019<br><br>(3 days)<br><br>1 <sup>st</sup> – 9 <sup>th</sup> December 2021<br><br>(9 days, in conjunction with detailed survey of nearby project) | <ul style="list-style-type: none"> <li>Systematic trapping:               <ul style="list-style-type: none"> <li>120 pitfall trap night</li> <li>36 funnel nights</li> <li>120 bird census events</li> </ul> </li> <li>Black-Cockatoo habitat assessment:               <ul style="list-style-type: none"> <li>Breeding tree assessment</li> <li>Foraging habitat assessment</li> <li>Roosting habitat assessment</li> </ul> </li> <li>Motion cameras (40 camera nights)</li> <li>Bird ARUs (106 unit nights)</li> <li>Opportunistic invertebrate collection</li> <li>Opportunistic observations</li> </ul> | 4 habitat types were identified: <ul style="list-style-type: none"> <li>Kwongan heath</li> <li>Dense riparian thickets</li> <li>Open, low woodland of <i>Banksia</i> sp.</li> <li>Cleared land</li> </ul>                                                                                                          | Detected within the Survey Area: <ul style="list-style-type: none"> <li>11 native and 5 introduced mammals</li> <li>35 birds</li> <li>15 reptiles</li> <li>3 frogs</li> </ul>     | Carnaby's Black-Cockatoo 15km outside the Arrowsmith North Survey Area | None                                                                                                                                       |
| (Strategen 2021)        | <b>Project:</b><br>Ocean Hill 3D Seismic Survey<br><br><b>Client:</b><br>Strike Energy<br><br><b>Survey Type:</b><br>Fauna Habitat Assessment and Black-Cockatoo Assessment                                                               | 4 km south of Survey Area       | 27,610    | 16 <sup>th</sup> – 20 <sup>th</sup> November 2021<br><br>(5 days)                                                                                                                                                                                   | <ul style="list-style-type: none"> <li>Fauna habitat assessments (number not specified)</li> <li>Black-Cockatoo Assessment               <ul style="list-style-type: none"> <li>Breeding tree assessment</li> <li>Foraging habitat assessment</li> <li>Roosting habitat assessment</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                   | 4 habitat types were identified: <ul style="list-style-type: none"> <li>Sparse open woodland</li> <li>Shrublands and scrub heath</li> <li>Drainage lines</li> <li>Cleared</li> </ul>                                                                                                                               | No records                                                                                                                                                                        | No records                                                             | Scope limited to habitat assessment and Black-Cockatoo Assessment                                                                          |
| Western Wildlife (2021) | <b>Project:</b><br>Eneabba Mineral Sands Phase 3 Project<br><br><b>Client:</b><br>Iluka Resources Limited<br><br><b>Survey Type:</b><br>Basic Fauna Survey and Black-Cockatoo Assessment                                                  | 11 km south-west of Survey Area | 687       | 12 <sup>th</sup> – 13 <sup>th</sup> July 2021<br><br>(2 days)                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>33 fauna habitat assessments</li> <li>Black-Cockatoo Assessment:               <ul style="list-style-type: none"> <li>Breeding tree assessment</li> <li>Foraging habitat assessment</li> <li>Roosting habitat assessment</li> </ul> </li> <li>Opportunistic observations</li> </ul>                                                                                                                                                                                                                                                                                  | 7 habitat types were identified: <ul style="list-style-type: none"> <li>Kwongan heath (uplands)</li> <li>Kwongan heath (lowlands)</li> <li>Minor drainages</li> <li>Rehabilitation (shrubs and heaths)</li> <li>Rehabilitation (planted Eucalypts)</li> <li>Rehabilitation (farmlands)</li> <li>Cleared</li> </ul> | 40 vertebrate fauna species: <ul style="list-style-type: none"> <li>3 native and 2 introduced mammals</li> <li>32 birds</li> <li>1 reptile</li> <li>2 amphibians</li> </ul>       | Carnaby's Black-Cockatoo recorded roosting and foraging                | Fauna may not be recorded because they are difficult to trap or observe, or because they are only present on the site for part of the year |

| Reference                    | Survey Details                                                                                                                                                                                                                  | Proximity to Survey Area                                                                                                                   | Area (ha)                                         | Survey Timing                                                     | Survey Effort                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Fauna Habitats                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Fauna Assemblages Recorded                                                                                                                                                                                                                                                                                                                  | Significant Species recorded                                                                                                                   | Limitations                                                                                                                                                                                      |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bancroft and Bamford (2020)  | <b>Project:</b><br>Zemira 3D Seismic Survey<br><br><b>Client:</b><br>Beach Energy<br><br><b>Survey Type:</b><br>Black-Cockatoo Assessment                                                                                       | 1.5 km west of Survey Area (in part, intersects the Additional Area)                                                                       | 96,703                                            | 21 <sup>st</sup> – 22 <sup>nd</sup> February 2020<br><br>(2 days) | <ul style="list-style-type: none"> <li>Black-Cockatoo Assessment:               <ul style="list-style-type: none"> <li>- Foraging habitat assessment</li> <li>- Roosting habitat assessment</li> <li>- Broad assessment of the area's suitability for breeding</li> </ul> </li> <li>Opportunistic fauna observations</li> </ul>                                                                                                                                                                                                                                                                                                                          | 8 vegetation and substrate associations broadly described, in lieu of habitat types: <ul style="list-style-type: none"> <li>Treeless Banksia heathland (Kwongan) on sands</li> <li>Banksia heathland with tree banksias and/or <i>Eucalyptus todtiana</i> on sands with some outcropping limestone</li> <li>Treeless mixed heathlands on sands</li> <li>Acacia shrublands on sands/loams</li> <li>Low mixed heathlands associated with laterite</li> <li><i>Eucalyptus erythrocorys</i> open woodland associated with outcropping limestone</li> <li>Drainage lines or claypan areas, with <i>Callitris arenaria</i> and/or large <i>Eucalyptus</i> sp.</li> <li>Cleared or largely cleared agricultural land</li> </ul> | 21 vertebrate fauna species: <ul style="list-style-type: none"> <li>1 mammal</li> <li>18 birds</li> <li>2 reptiles</li> </ul>                                                                                                                                                                                                               | No records                                                                                                                                     | <ul style="list-style-type: none"> <li>No in-depth breeding tree assessment</li> </ul>                                                                                                           |
| Infinite Green Energy (2020) | <b>Project:</b><br>Arrowsmith Hydrogen Project<br><br><b>Client:</b><br>Infinite Green Energy<br><br><b>Survey Type:</b><br>Basic Fauna Survey                                                                                  | 28 km north-west of Survey Area                                                                                                            | 1,930                                             | 12 <sup>th</sup> – 16 <sup>th</sup> October 2020<br><br>(5 days)  | <ul style="list-style-type: none"> <li>Opportunistic bird observations</li> <li>Active searches</li> <li>Tree hollow inspections</li> <li>Spotlighting</li> <li>Motion cameras</li> <li>Songmeter acoustic recorders</li> </ul> Specific survey effort was not listed                                                                                                                                                                                                                                                                                                                                                                                    | 8 habitat types were identified: <ul style="list-style-type: none"> <li>Tall heath on sandplain</li> <li>Mallee woodland</li> <li>Pastoral plain of farmland</li> <li>Riparian <i>Eucalyptus camaldulensis</i></li> <li>Tall shrubland of Acacia</li> <li>Waterbody (seasonal)</li> <li>Wetland</li> <li>Low Eucalypt woodland</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                | 57 vertebrate fauna species: <ul style="list-style-type: none"> <li>7 native and 5 introduced mammals</li> <li>42 birds</li> <li>3 reptiles</li> </ul>                                                                                                                                                                                      | <ul style="list-style-type: none"> <li>Carnaby's Black-Cockatoo</li> <li>Sharp-tailed Sandpiper (<i>Calidris acuminata</i>) (Mi;Mi)</li> </ul> | Not Stated                                                                                                                                                                                       |
| ENV Australia (2013)         | <b>Project:</b><br>Twin Hills and One Tree Hill Wind Farms<br><br><b>Client:</b><br>Wind Prospect<br><br><b>Survey Type:</b><br>Preliminary Flora and Fauna Assessment including targeted methods and Black-Cockatoo Assessment | 0-20 km from Survey Area (in part, Intersects Survey Area)<br><br>Both Twin Hills and One Tree Hill Survey Areas intersect the Survey Area | 20,507 (Twin Hills)<br><br>16,670 (One Tree Hill) | 25 <sup>th</sup> – 29 <sup>th</sup> June 2012<br><br>(5 days)     | <ul style="list-style-type: none"> <li>17 fauna habitat assessments (10 at Twin Hills, 7 at One Tree Hill)</li> <li>Targeted searches for Carnaby's Black-Cockatoo (<i>Zanda latirostris</i>), Western Spiny-tailed Skink (<i>Egernia stokesii badia</i>), Malleefowl (<i>Leipoa ocellata</i>), Shield-backed Trapdoor Spider (<i>Idiosoma nigrum</i>)</li> <li>Black-Cockatoo Assessment:               <ul style="list-style-type: none"> <li>- Breeding tree assessment</li> <li>- Foraging habitat assessment</li> </ul> </li> <li>Bat ARUs (2 unit nights)</li> <li>Motion cameras (3 camera nights)</li> <li>Opportunistic observations</li> </ul> | 3 habitat types were identified: <ul style="list-style-type: none"> <li>Paddock</li> <li>Scattered trees – (<i>Eucalyptus todtiana</i>)</li> <li>Proteaceous heathland</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 46 vertebrate fauna species at Twin Hills: <ul style="list-style-type: none"> <li>4 native and 2 introduced mammals</li> <li>38 birds</li> <li>2 reptiles</li> </ul> 44 vertebrate fauna species at One Tree Hill: <ul style="list-style-type: none"> <li>5 native and 2 introduced mammals</li> <li>36 birds</li> <li>1 reptile</li> </ul> | 13 individual Carnaby's Black-Cockatoos (En;En)                                                                                                | <ul style="list-style-type: none"> <li>Access was limited via vehicle due to planted crops</li> <li>Seasonal conditions were considered sub-optimal with low temperatures and showers</li> </ul> |

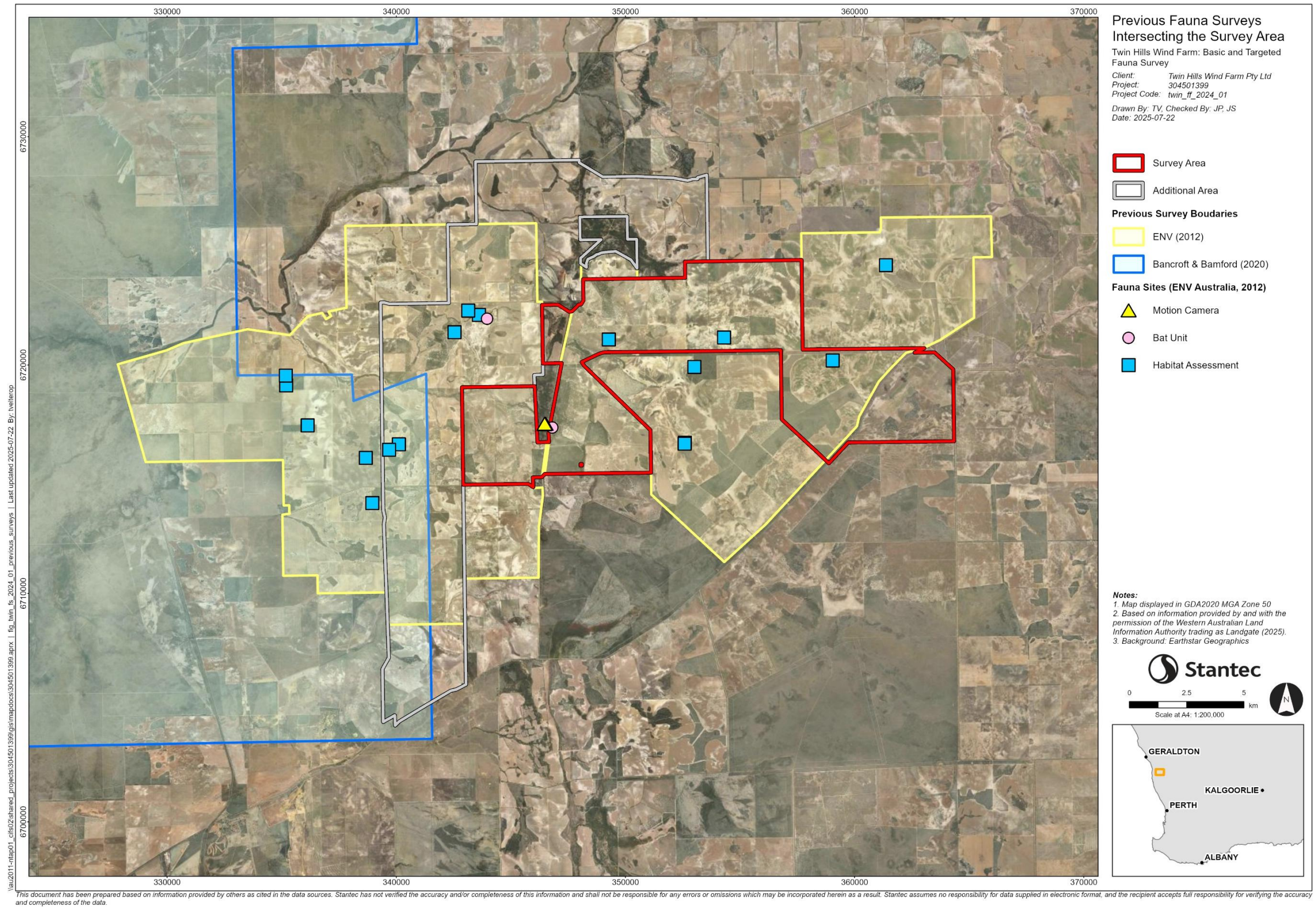


Figure 3-1: Previous fauna surveys that intersect the Survey Area and Additional Area.

### 3.2.3 Likelihood of Occurrence

Prior to undertaking the Survey, the significant species identified from the database searches and literature review were assessed for their likelihood of occurrence within the Survey Area. This assessment was based on the results of the preliminary survey, interpretation of habitat types from aerial imagery, known preferred habitat and the nearest known location of each species. The likelihood of occurrence rankings were assigned using the criteria in **Table 3-3**.

**Table 3-3: Likelihood of Occurrence Definition.**

| Potential to Occur | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Confirmed</b>   | The species has been recorded unambiguously during the last ten years (i.e., during recent surveys or from reliable records obtained via database searches) in the Survey Area.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Likely</b>      | There is a medium to high likelihood that the species uses the Survey Area as it occurs within the known species distribution, contains suitable habitat (either year-round or intermittently, such as temporary water sources or features that are only relied upon during certain times of the year) and the species has been recorded recently nearby.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Possible</b>    | There is a potential for the species to use the Survey Area as: <ul style="list-style-type: none"> <li>The species has not been recorded recently nearby however: <ul style="list-style-type: none"> <li>The species may not have been detected during previous surveys e.g. is rare, patchily distributed, highly mobile, or has an extensive foraging range; and</li> <li>The species is known to be cryptic and may not have been detected despite extensive surveys.</li> </ul> </li> <li>The species has been recorded recently nearby and species presence cannot be ruled out due to factors such as species ecology or distribution; <ul style="list-style-type: none"> <li>Doubt remains over taxonomic identification.</li> <li>The majority of habitat does not appear suitable; and</li> <li>Coordinates are doubtful</li> </ul> </li> </ul> |
| <b>Unlikely</b>    | There is an outward potential for the species to use the Survey Area as: <ul style="list-style-type: none"> <li>The Survey Area lacks critical habitat, only supports marginally suitable habitat, or is severely degraded; and/or</li> <li>There are few historic record/s and no other current records in the local area</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Not Present</b> | The species does not use the Survey Area as: <ul style="list-style-type: none"> <li>The species is not known to occur within the bioregion based on the current literature and distribution;</li> <li>The Survey Area lacks important habitat for a species that has highly selective habitat requirements; and</li> <li>The species has been historically recorded within Survey Area or locally: however, it is considered locally extinct due to significant habitat changes such as land clearing and/or introduced predators.</li> </ul>                                                                                                                                                                                                                                                                                                            |



### 3.2.4 Short-Range Endemic Classification

Endemism refers to the restriction of a species to a particular area, at a continental, national or local scale (Allen et al. 2002). Harvey (2002) defines a restricted range as a species with a maximum range of 10,000 km<sup>2</sup>. Comprehensive systematic reviews of different faunal groups often reveal the presence of SRE invertebrate species (Harvey et al. 2011). Some better known SRE species have been listed under State or Commonwealth legislation. However, the majority of SRE species have not been listed under legislation, often due to lack of taxonomic knowledge (EPA 2016a). SRE invertebrates in general are considered relevant to environmental impact assessment as habitat loss and degradation can decrease their prospects for persistence (EPA 2016a).

The SRE invertebrate fauna of WA is typically associated with sheltered and mesic microhabitats, such as the southeast aspect of slopes, trees, boulders and rock piles, outcrops, mesas, drainage systems, deep gorges, natural springs and fire refuges (EPA 2016a). In WA, many terrestrial SRE invertebrate species have Gondwanan origins and are relics of previously widespread species common to the continents of the southern hemisphere during the mesic climates of the Miocene (Harvey 2002). The subsequent aridification of Australia during the Miocene through to the Pleistocene resulted in the fragmentation and contraction of once common mesic habitats. Consequently, populations dependent on these mesic habitats were also fragmented, resulting in the evolution of SRE invertebrate fauna (Harvey 2002).

A combination of intrinsic and extrinsic factors, such as dispersal capabilities or opportunities, habitat preferences, life history attributes, physiological attributes, habitat availability, biotic and abiotic interactions and historical factors, determine not only the geographic distribution of a taxon, but its propensity for population differentiation and speciation (Ponder and Colgan 2002). Taxa prone to short-range endemism tend to share several ecological and life-history characteristics, such as poor powers of dispersal, confinement to discontinuous habitats, highly seasonal activity patterns and low fecundity (Harvey 2002).

Invertebrate groups prone to short-range endemism that have potential to occur within the Survey Area and that are regularly targeted during SRE surveys across the state include: mygalomorph spiders, selenopid spiders, scorpions, pseudoscorpions, millipedes, slaters and terrestrial snails. Additional invertebrate groups have the potential to include SRE species (Harvey 2002), however, these groups are generally considered beyond the requirements of fauna surveys for environmental impact assessments. Taxonomists have developed criteria for explaining the degree of certainty surrounding the SRE status of a specimen where specific knowledge gaps exist, such as:

- Unknown geographic distribution of a species due to patchy/limited sampling;
- Limited taxonomic resolution due to limited knowledge of a particular group or a lack of specialist skills; and
- Specimens are of an inappropriate life stage or sex to allow for accurate identification to species level.

These categories will be used to provide context to specimens collected during future surveys (**Table 3-4**).

**Table 3-4: Categories for status with respect to short-range-endemism.**

| Potential to Occur | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Confirmed          | <ul style="list-style-type: none"><li>• This category applies when the identity of the taxon is unambiguous, and its distribution is less than 10,000 km<sup>2</sup> based on publicly available vouchered records. Supporting data can be either genomic (from DNA sequences) or morphological, ideally both.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Potential          | <ul style="list-style-type: none"><li>• <b>Data Deficient (DD)</b>: This category covers taxa for which there is insufficient data available to determine SRE status. Factors that fall under this category includes insufficient geographic information (DDG), insufficient taxonomic information (DDT), and/or inappropriate life stages prevent identification to species level.</li><li>• <b>Habitat Indicators (H)</b>: This category employs habitat characteristics to evaluate SRE status when habitats are known to support SRE taxa. For example, many species sampled from subterranean habitats are known to be range restricted; a new species discovered from such habitat therefore has greater potential to be range restricted (i.e. a SRE) than widespread.</li></ul> |



| Potential to Occur | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | <ul style="list-style-type: none"> <li>• <b>Morphological Evidence (M):</b> This category uses one or more morphological characters that are characteristic of SRE taxa inhabiting restricted environments, e.g. the specialised morphological features of animals adapted to subterranean habitats, including body markings that are absent or significantly paler than surface dwelling relatives, eyes that are absent or significantly reduced, and/or longer appendages (legs and antennae) than surface relatives.</li> <li>• <b>Unpublished Research &amp; Expertise (U):</b> This category relies on unpublished research or expertise to develop SRE status.</li> </ul> |
| <b>Widespread</b>  | <ul style="list-style-type: none"> <li>• This category applies when vouchered evidence demonstrates a distribution greater than 10,000 km<sup>2</sup> (not an SRE species).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |



## 3.3 Desktop Assessment Results

### 3.3.1 Terrestrial Fauna

The desktop assessment (including database searches and the literature review) identified a total of 334 vertebrate fauna species and seven significant invertebrate fauna species (341 terrestrial fauna species in total), which were recorded and/or have the potential to occur within the Survey Area (**Table 3-5; Appendix C**). These comprise the following:

- 23 native mammals;
- 6 non-native mammals;
- 228 native birds;
- 2 non-native birds;
- 63 reptiles;
- 12 amphibians; and
- 7 significant invertebrates.

Many of these species are unlikely to occur in the Survey Area as records are old, erroneous or from a large area encompassing a wide range of habitats, many of which do not occur within the Survey Area. Small, common, ground dwelling reptiles and mammal species also tend to be patchily distributed even where appropriate habitats are present, and many birds can occur as regular migrants, occasional visitors or vagrants.

**Table 3-5: Summary of terrestrial fauna recorded during the desktop assessment.**

| Fauna Group          | Database Searches                          |                                              |                                      |                                    |                        | Relevant Regional Reports*                             |                                                      |                                  |                                               |                                              |                                                  | Total      |
|----------------------|--------------------------------------------|----------------------------------------------|--------------------------------------|------------------------------------|------------------------|--------------------------------------------------------|------------------------------------------------------|----------------------------------|-----------------------------------------------|----------------------------------------------|--------------------------------------------------|------------|
|                      | Threatened and Priority Fauna (DBCA 2023a) | Protected Matters Search Tool (DCCEEW 2024b) | Atlas of Living Australia (ALA 2023) | Birddata (BirdLife Australia 2023) | NatureMap (DBCA 2023b) | Twin Hills Preliminary Assessment (ENV Australia 2013) | One Tree Preliminary Assessment (ENV Australia 2013) | Arrowsmith North (Bamford 2022a) | Eneabba Mineral Sands (Western Wildlife 2021) | Ocean Hill Fauna Assessment (Strategen 2021) | Arrowsmith Hydrogen (Infinite Green Energy 2020) |            |
| Mammals (native)     | 2                                          | 3                                            | 18                                   | 0                                  | 2                      | 0                                                      | 0                                                    | 1                                | 3                                             | 6                                            | 0                                                | 23         |
| Mammals (non-native) | 0                                          | 0                                            | 6                                    | 0                                  | 0                      | 0                                                      | 0                                                    | 0                                | 2                                             | 5                                            | 4                                                | 6          |
| Birds (native)       | 22                                         | 35                                           | 108                                  | 181                                | 23                     | 39                                                     | 38                                                   | 8                                | 29                                            | 55                                           | 3                                                | 228        |
| Birds (non-native)   | 0                                          | 0                                            | 1                                    | 2                                  | 0                      | 0                                                      | 0                                                    | 2                                | 0                                             | 0                                            | 1                                                | 2          |
| Reptiles             | 2                                          | 1                                            | 62                                   | 0                                  | 2                      | 2                                                      | 1                                                    | 35                               | 1                                             | 7                                            | 0                                                | 63         |
| Amphibians           | 0                                          | 0                                            | 12                                   | 0                                  | 0                      | 0                                                      | 0                                                    | 10                               | 2                                             | 0                                            | 0                                                | 12         |
| Invertebrates        | 6                                          | 0                                            | 1                                    | 0                                  | 6                      | 0                                                      | 0                                                    | 2                                | 0                                             | 0                                            | 0                                                | 7          |
| <b>Total</b>         | <b>32</b>                                  | <b>39</b>                                    | <b>208</b>                           | <b>183</b>                         | <b>33</b>              | <b>41</b>                                              | <b>39</b>                                            | <b>58</b>                        | <b>37</b>                                     | <b>73</b>                                    | <b>8</b>                                         | <b>341</b> |

\*Species lists were not available for two reports assessed during the literature review (Bamford 2022b; Bancroft and Bamford 2020).



### 3.3.2 Significant Fauna

Of the of 341 species of terrestrial fauna identified as previously recorded and/or having the potential to occur within the Survey Area, 66 were significant vertebrate fauna, comprising six mammals, 57 birds, three reptiles; and seven were significant invertebrate fauna (**Appendix C**).

A total of 28 significant fauna species identified in the desktop assessment were not assessed against the likelihood of occurrence criteria, as their current range is located outside of the Survey Area and no recent records were identified, or because they were recorded in the desktop searches only from coastal or marine habitats that do not occur in the Survey Area (**Section 5.3.1**). Following the exclusion of the above species, 45 significant fauna species were known and/or have the potential to occur within the Survey Area. These comprised four mammals, 31 birds, three reptiles and seven invertebrates (**Table 3-6**).

Records of significant vertebrate species from recent surveys are presented in **Figure 3-2**. Significant invertebrate species are presented with taxa from SRE groups in **Figure 3-3**.

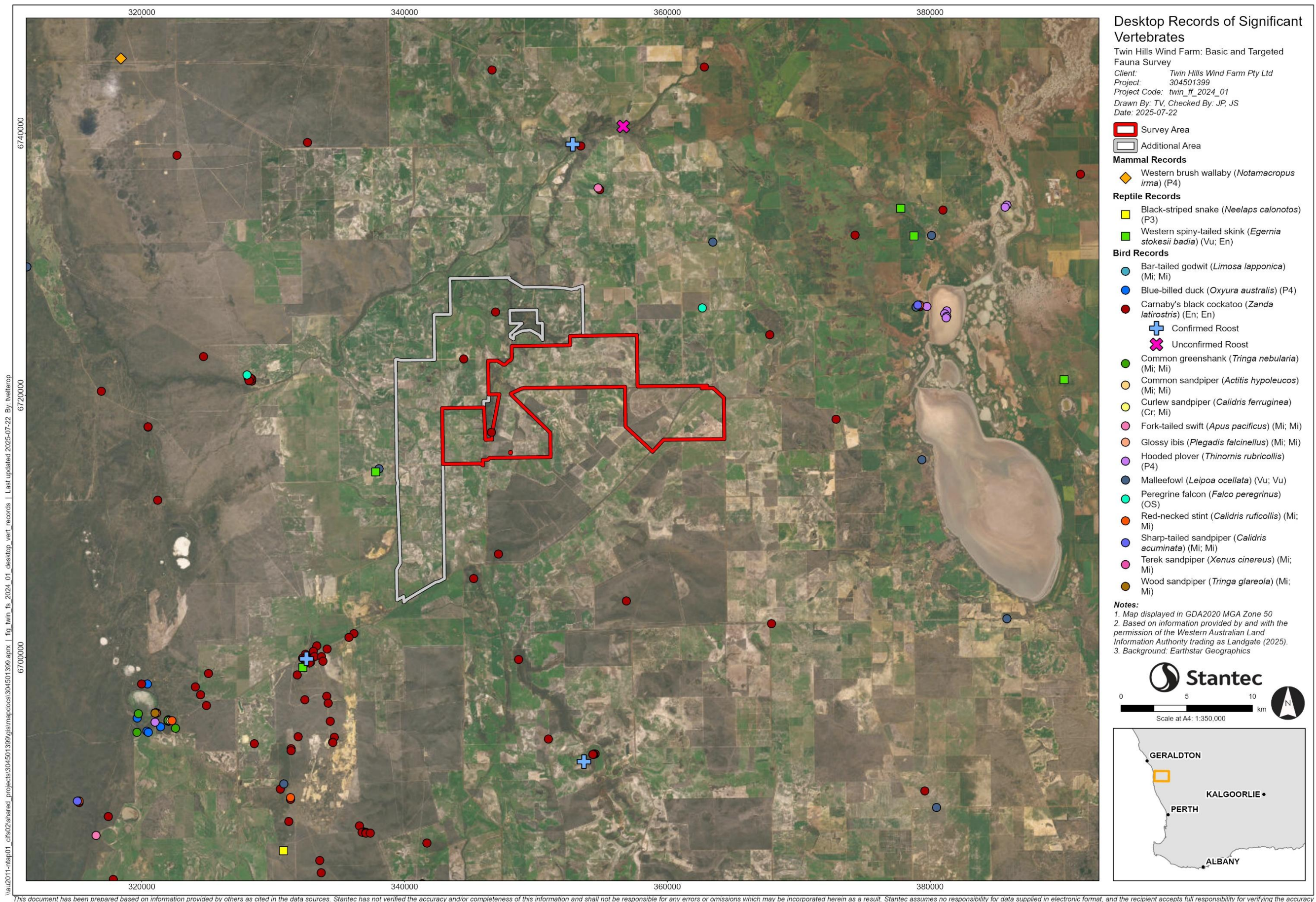
**Table 3-6: Summary of significant fauna recorded during the desktop assessment. Species in bold are known to occur in the Survey Area.**

| Scientific Name                                          | Common Name               | BC Act Status                                                        | EPBC Act Status                                                      |
|----------------------------------------------------------|---------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|
| <b>Mammals</b>                                           |                           |                                                                      |                                                                      |
| <i>Dasyurus geoffroii</i>                                | Chuditch                  | Vulnerable                                                           | Vulnerable                                                           |
| <i>Notamacropus eugenii</i>                              | Tammar Wallaby            | Priority 4                                                           | -                                                                    |
| <i>Notamacropus irma</i>                                 | Western Brush Wallaby     | Priority 4                                                           | -                                                                    |
| <i>Phascogale tapoatafa wambenger</i>                    | Brush-tailed Phascogale   | Priority 4                                                           | -                                                                    |
| <b>Aves</b>                                              |                           |                                                                      |                                                                      |
| 18 migratory shorebirds (incl. Sandpipers, Plovers etc.) |                           | Critically Endangered, Endangered, Vulnerable, Priority 4, Migratory | Critically Endangered, Endangered, Vulnerable, Priority 4, Migratory |
| <i>Zanda baudinii</i>                                    | Baudin's Black-Cockatoo   | Endangered                                                           | Endangered                                                           |
| <b><i>Zanda latirostris</i></b>                          | <b>Carnaby's Cockatoo</b> | <b>Endangered</b>                                                    | <b>Endangered</b>                                                    |
| <i>Leipoa ocellata</i>                                   | Malleefowl                | Vulnerable                                                           | Vulnerable                                                           |
| <i>Falco hypoleucos</i>                                  | Grey Falcon               | Vulnerable                                                           | Vulnerable                                                           |
| <i>Aphelocephala leucopsis</i>                           | Southern Whiteface        | -                                                                    | Vulnerable                                                           |
| <b><i>Falco peregrinus</i></b>                           | <b>Peregrine Falcon</b>   | <b>Other Specially Protected</b>                                     | -                                                                    |
| <i>Apus pacificus</i>                                    | Fork-Tailed Swift         | Migratory                                                            | Migratory                                                            |
| <i>Motacilla cinerea</i>                                 | Grey Wagtail              | Migratory                                                            | Migratory                                                            |
| <i>Pandion haliaetus</i>                                 | Osprey                    | Migratory                                                            | Migratory                                                            |
| <i>Plegadis falcinellus</i>                              | Glossy Ibis               | Migratory                                                            | Migratory                                                            |
| <i>Bubulcus ibis</i>                                     | Eastern Cattle Egret      | -                                                                    | Migratory                                                            |



|                                                       |                                     |            |            |
|-------------------------------------------------------|-------------------------------------|------------|------------|
| <i>Elanus scriptus</i>                                | Letter-winged Kite                  | Priority 4 | -          |
| <i>Oxyura australis</i>                               | Blue-billed Duck                    | Priority 4 | -          |
| <b>Reptiles</b>                                       |                                     |            |            |
| <i>Egernia stokesii badia</i>                         | Western Spiny-tailed Skink          | Vulnerable | Endangered |
| <i>Aspidites ramsayi</i>                              | Woma Python                         | Priority 1 | -          |
| <i>Neelaps calonotos</i>                              | Black-striped Snake                 | Priority 3 | -          |
| <b>Invertebrates</b>                                  |                                     |            |            |
| <i>Idiosoma nigrum</i>                                | Shield-backed Trapdoor Spider       | -          | Vulnerable |
| <i>Idiosoma kwongan</i>                               | Heath Shield-backed Trapdoor Spider | Priority 1 | -          |
| <i>Bothriembryon perobesus</i><br>(Terrestrial Snail) |                                     | Priority 1 | -          |
| <i>Hemisaga vepreculae</i>                            | Thorny Bush Katydid                 | Priority 2 | -          |
| <i>Hylaeus globuliferus</i>                           | Woolybush Bee                       | Priority 3 | -          |
| <i>Phasmodes jeeba</i>                                | Springtime Corroboree Stick Katydid | Priority 3 | -          |
| <i>Synemon gratiosa</i>                               | Graceful Sunmoth                    | Priority 4 | -          |





**Figure 3-2: Previous significant terrestrial fauna records in the vicinity of the Survey Area.**

### 3.3.3 SRE Invertebrate Fauna

Database searches and review of the literature yielded a total of 54 invertebrate taxa from SRE target groups (**Table 3-7; Appendix D**). These taxa had been collected from within 100 km of the Survey Area as per the proposed maximum range of short-range endemism in (Harvey 2002). Only taxa identified to species, morphospecies or species complex level are included, as it is not possible to determine species distribution based on genus only. The 54 invertebrate taxa identified from the desktop assessment were assessed for their potential to occur (**Table 3-7; Appendix D**) depending on the availability of habitat, SRE status (if applicable), proximity of the record, number of records within 100 km and available published literature on known distribution of taxa.

The 54 invertebrate taxa identified from the desktop assessment comprised the following target groups:

- 22 Mygalomorph Spiders;
- 3 Harvestmen;
- 10 Scorpions;
- 2 Pseudoscorpions;
- 9 Millipedes;
- 1 Slater; and
- 7 Snails.

Of the 54 taxa identified in the desktop assessment:

- 3 taxa had a high potential to occur within the Survey Area;
- 44 taxa had a moderate potential to occur within the Survey Area; and
- 7 taxa had a low potential to occur within the Survey Area.

It should be noted that the WAM does not provide the SRE status of taxa recorded in database search results. Therefore, all taxa belonging to SRE target groups are presented. Taxa with a moderate or high potential to occur in the Survey Area are presented in **Table 3-7**. Invertebrate taxa from SRE target groups, and significant invertebrate taxa in proximity to the Survey Area are presented in **Figure 3-3**. An entire list of taxa belonging to SRE target groups is presented in **Appendix D**.



**Table 3-7: Target group SRE taxa with moderate or high potential to occur within the Survey Area.**

| Name                              | Source | Habitat within source report | Similar habitat present | Number of records within 100km | Nearest record (km) | Likelihood of occurrence |
|-----------------------------------|--------|------------------------------|-------------------------|--------------------------------|---------------------|--------------------------|
| <b>Mygalomorph Spiders</b>        |        |                              |                         |                                |                     |                          |
| <i>Aname mainae</i>               | WAM    | -                            | -                       | 9                              | 8.24                | High                     |
| <i>Idiosoma kwongan</i>           | WAM    | Laterite heath               | Yes                     | 7                              | 17.86               | Moderate                 |
| <i>Missulena hoggi</i>            | WAM    | -                            | -                       | 2                              | 17.86               | Moderate                 |
| <i>Teyl 'kwonganensis'</i>        | WAM    | -                            | -                       | 2                              | 17.86               | Moderate                 |
| <i>Euoplos mcmillani</i>          | WAM    | -                            | -                       | 2                              | 17.86               | Moderate                 |
| <i>Missulena occatoria</i>        | WAM    | -                            | -                       | 3                              | 19.18               | Moderate                 |
| <i>Aname 'MYG633'</i>             | WAM    | -                            | -                       | 6                              | 20.31               | Moderate                 |
| <i>Kwonkan 'MYG060'</i>           | WAM    | -                            | -                       | 1                              | 20.31               | Moderate                 |
| <i>Idiommatia blackwalli</i>      | WAM    | -                            | -                       | 2                              | 20.45               | Moderate                 |
| <i>Idiosoma 'BMYG189'</i>         | WAM    | -                            | -                       | 2                              | 26.83               | Moderate                 |
| <i>Gaius villosus</i>             | WAM    | -                            | -                       | 2                              | 27.71               | Moderate                 |
| <i>Selenotholus foelschei</i>     | WAM    | -                            | -                       | 1                              | 27.77               | Moderate                 |
| <i>Bungulla banksia</i>           | WAM    | -                            | -                       | 6                              | 28.74               | Moderate                 |
| <i>Idiosoma 'MYG074'</i>          | WAM    | Wandoo woodland              | Yes                     | 2                              | 28.74               | Moderate                 |
| <i>Missulena 'Bisevac sp. 1'</i>  | WAM    | Laterite heath               | -                       | 1                              | 28.74               | Moderate                 |
| <i>Missulena 'Bisevac sp. 2'</i>  | WAM    | -                            | -                       | 1                              | 28.74               | Moderate                 |
| <i>Euoplos 'MYG792'</i>           | WAM    | -                            | -                       | 2                              | 31.86               | Moderate                 |
| <i>Idiosoma 'BMYG188'</i>         | WAM    | -                            | -                       | 3                              | 33.14               | Moderate                 |
| <i>Idiosoma 'simplex'</i>         | WAM    | -                            | -                       | 1                              | 38.69               | Moderate                 |
| <i>Aname macleayorum</i>          | WAM    | Wandoo woodland              | Yes                     | 1                              | 45.84               | Moderate                 |
| <i>Synothele howi</i>             | WAM    | -                            | -                       | 1                              | 47.59               | Moderate                 |
| <i>Missulena granulosa</i>        | WAM    | -                            | -                       | 1                              | 49.18               | Moderate                 |
| <b>Harvestmen</b>                 |        |                              |                         |                                |                     |                          |
| <i>Ballarra longipalpus</i>       | WAM    | Shaley sandstone             |                         | 3                              | 48.77               | Moderate                 |
| <b>Scorpions</b>                  |        |                              |                         |                                |                     |                          |
| <i>Urodacus 'armatus'</i>         | WAM    | Kwongan heath                | Yes                     | 4                              | 17.86               | Moderate                 |
| <i>Lychas jonesae</i>             | WAM    | -                            | -                       | 1                              | 19.18               | Moderate                 |
| <i>Lychas 'austroccidentalis'</i> | WAM    | Open salt lake country       | No                      | 18                             | 20.31               | Moderate                 |
| <i>Urodacus novaehollandiae</i>   | WAM    | Laterite heath               | Yes                     | 4                              | 20.45               | Moderate                 |
| <i>Urodacus 'Three Springs'</i>   | WAM    | -                            | -                       | 1                              | 20.45               | Moderate                 |
| <i>Urodacus 'BSCO071'</i>         | WAM    | -                            | -                       | 2                              | 30.98               | Moderate                 |
| <i>Cercophonius michaelsoni</i>   | WAM    | Kwongan heath                | Yes                     | 1                              | 32.61               | Moderate                 |



|                                                |     |                                      |     |    |       |          |
|------------------------------------------------|-----|--------------------------------------|-----|----|-------|----------|
| <i>Cercophonius sulcatus</i>                   | WAM | -                                    | -   | 1  | 33.77 | Moderate |
| <i>Urodacus `eneabba`</i>                      | WAM | -                                    | -   | 12 | 35.37 | Moderate |
| <b>Pseudoscorpions</b>                         |     |                                      |     |    |       |          |
| <i>Austrochthonius `PSE192, lesueuri`</i>      | WAM | -                                    | -   | 1  | 17.86 | Moderate |
| <i>Protochelifer cavernarum</i>                | WAM | -                                    | -   | 17 | 31.00 | Moderate |
| <b>Millipedes</b>                              |     |                                      |     |    |       |          |
| <i>Antichiropus `DIP076`</i>                   | WAM | Low heath on low lateritic breakaway | Yes | 3  | 14.97 | High     |
| <i>Antichiropus `DIP078`</i>                   | WAM | Kwongan heath                        | Yes | 9  | 17.86 | Moderate |
| <i>Antichiropus sulcatus</i>                   | WAM | -                                    | -   | 22 | 17.86 | Moderate |
| <i>Antichiropus `DIP169`</i>                   | WAM | -                                    | -   | 4  | 25.26 | Moderate |
| <i>Antichiropus `DIP107, Mt Lesueur2, ML2`</i> | WAM | -                                    | -   | 9  | 38.69 | Moderate |
| <i>Antichiropus `DIP106, ML1, Mt Lesueur1`</i> | WAM | Wandoo woodland, Shale sandstone     | Yes | 6  | 48.84 | Moderate |
| <i>Antichiropus `DIP115/DIP199 pintharuka`</i> | WAM | -                                    | -   | 2  | 49.23 | Moderate |
| <i>Antichiropus `DIP144, PK1`</i>              | WAM | -                                    | -   | 5  | 49.23 | Moderate |
| <i>Antichiropus `DIP115, PM1`</i>              | WAM | -                                    | -   | 1  | 49.34 | Moderate |
| <b>Crustacea</b>                               |     |                                      |     |    |       |          |
| <i>Buddelundia opaca</i>                       | WAM | -                                    | -   | 3  | 48.84 | Moderate |
| <b>Snails</b>                                  |     |                                      |     |    |       |          |
| <i>Bothriembryon perobesus</i>                 | WAM | Hilltop, limestone ridge             | Yes | 50 | 8.14  | High     |
| <i>Cochlicella acuta</i>                       | WAM | Limestone ridge                      | Yes | 1  | 40.99 | Moderate |
| <i>Theba pisana</i>                            | WAM | Limestone ridge                      | Yes | 1  | 40.99 | Moderate |



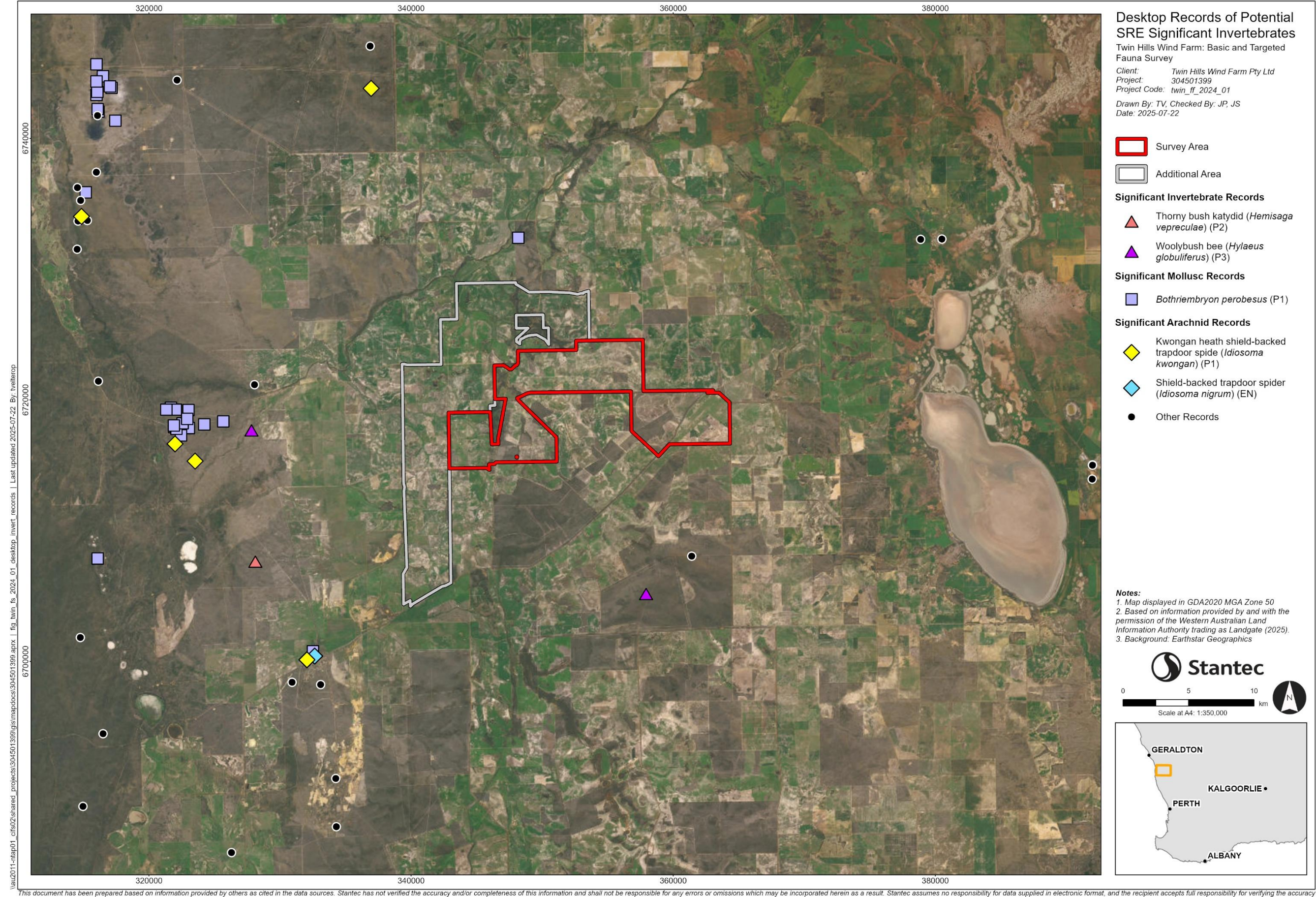


Figure 3-3: Significant invertebrate and potential SRE taxa records in the vicinity of the Survey Area.

## 4. Survey Methods

### 4.1 Survey Timing and Personnel

A fauna site inspection and two basic and targeted surveys (collectively, 'the Survey') were conducted by experienced zoologists Joseph Sollis (technical and survey lead; eight years' experience), Melissa Jensen (15 years' experience) and Katelyn Gibson (seven years' experience) (**Table 4-1**). All field team members have sound technical knowledge and experience undertaking fauna surveys throughout Western Australia.

Survey dates were selected based on the optimal timing for significant fauna, including likely Carnaby's Black-Cockatoo nesting season in October (DAWE 2022a; Johnstone and Johnstone 2024).

Supplementary targeted fauna survey effort was also conducted during the separate bird and bat utilisation surveys (BBUS), and species records and relevant survey effort from BBUSs are consolidated within this report.

**Table 4-1: Survey timing and personnel. Rows in bold indicate the components of the basic and targeted fauna survey.**

| Survey Period                                                                          | Survey Type                              | Days     | Zoologists                                     |
|----------------------------------------------------------------------------------------|------------------------------------------|----------|------------------------------------------------|
| <b>9<sup>th</sup> – 13<sup>th</sup> October 2023</b>                                   | <b>Preliminary Fauna Site Inspection</b> | <b>5</b> | <b>Joseph Sollis</b><br><b>Katelyn Gibson</b>  |
| 11 <sup>th</sup> – 18 <sup>th</sup> December 2023                                      | Q4 2023 BBUS                             | 8        | Joseph Sollis<br>Katelyn Gibson                |
| <b>23<sup>rd</sup> February – 1<sup>st</sup> March 2024</b>                            | <b>Basic and Targeted Fauna Survey</b>   | <b>8</b> | <b>Melissa Jensen</b><br><b>Katelyn Gibson</b> |
| 6 <sup>th</sup> – 13 <sup>th</sup> March 2024                                          | Q1 2024 BBUS                             | 8        | Joseph Sollis<br>Rebecca Quah                  |
| 21 <sup>st</sup> – 27 <sup>th</sup> May; 24 <sup>th</sup> – 25 <sup>th</sup> June 2024 | Q2 2024 BBUS 2024                        | 9        | Joseph Sollis<br>Jasmin Pratt                  |
| 5 <sup>th</sup> – 11 <sup>th</sup> August 2024                                         | Q3 2024 BBUS                             | 7        | Joseph Sollis<br>Rob Hemsworth                 |
| 30 <sup>th</sup> September – 6 <sup>th</sup> October 2024                              | Q4 2024 BBUS                             | 7        | Georgia Volck<br>Jasmin Pratt                  |
| <b>21<sup>st</sup> – 29<sup>th</sup> October 2024</b>                                  | <b>Basic and Targeted Fauna Survey</b>   | <b>9</b> | <b>Joseph Sollis</b><br><b>Katelyn Gibson</b>  |
| 17 <sup>th</sup> – 21 <sup>st</sup> February 2025                                      | Q1 2025 BBUS                             | 5        | Jasmin Pratt<br>Bill Webeck                    |
| 19 <sup>th</sup> – 23 <sup>rd</sup> May 2025                                           | Q2 2025 BBUS                             | 5        | Jasmine Ridley<br>Lachlan Wild                 |
| 7 <sup>th</sup> – 12 <sup>th</sup> July 2025                                           | Q3 2025 BBUS                             | 6        | Jasmin Pratt<br>Joey Laugharne                 |



## 4.2 Seasonal Conditions

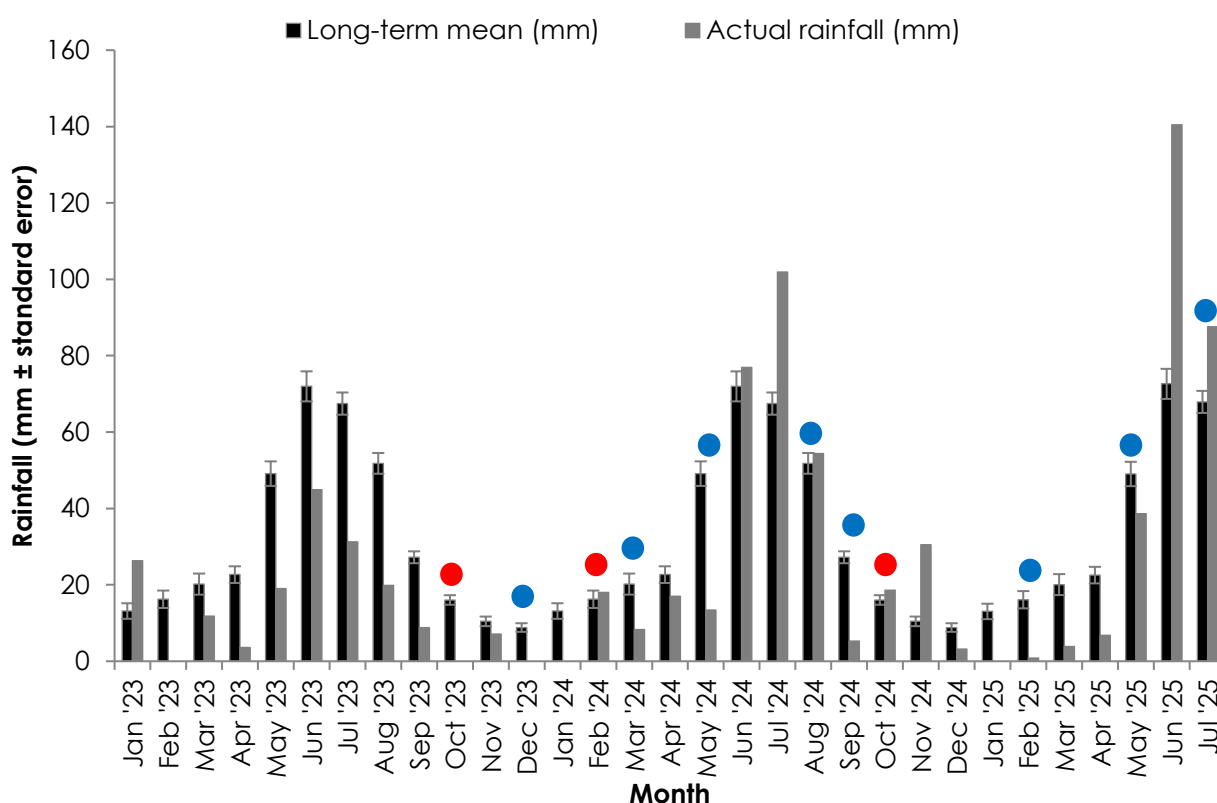
To understand the influence of weather conditions and rainfall on the Survey, weather data was considered and collated from active weather stations in the vicinity of the Survey Area. Based on availability of data and proximity to the Survey Area, rainfall data and temperature data were collected from Carnamah Station (station no. 008025) (BoM 2024). Carnamah Station is located approximately 35 km east of the Survey Area.

During 2023, total rainfall was 162.7 mm. Total rainfall in 2023 was less than half the long-term average (374.93 mm); and all months received lower rainfall than the long-term average (**Figure 4-1**).

During 2023, the mean maximum monthly temperature ranged from 17.7°C to 37.5°C with highest maximums occurring in January, February and December (37.5°C, 37.4°C and 37.3°C respectively). The mean minimum monthly temperature ranged from 5.4°C to 18.4°C with the lowest minimums occurring in June and July (5.4°C and 6.1°C respectively).

During 2024, total rainfall was 335.8 mm, slightly below the half the long-term average (374.93 mm); with multiple months receiving more than the monthly long-term average. Over two-thirds of the year's rainfall was received between June and August, with these months receiving 76.9 mm (June), 101.9 mm (July) and 54.4 mm (August) (**Figure 4-1**).

During 2024, the mean maximum monthly temperature ranged from 19.5°C to 41.2°C with highest maximums occurring in February, January and December (41.2°C, 39.8°C and 37.7°C respectively). The mean minimum monthly temperature ranged from 8.9°C to 20.7°C with the lowest minimums occurring in July and August (8.9°C and 9.2°C respectively).



**Figure 4-1: Long-term (1901 – 2025) mean monthly rainfall (mm) at Carnamah BoM weather station (No. 008025), and the monthly rainfall (mm) received in 2023 – 2025. Survey times indicated by red (Basic and Targeted Survey) and blue (BBUS) markers.**

Weather conditions during the Preliminary Site Inspection were mild and dry (**Table 4-2**), with the rainfall being low for the time of year. The maximum daily recorded temperature ranged from 25.5°C to 30.5°C, whilst minimum daily recorded temperatures ranged from 9.0°C to 17.5°C. No rainfall was recorded during the Survey.



During the February to March Basic and Targeted Fauna Survey, the weather conditions were generally consistent with the long-term average. Maximum daily recorded temperatures ranged from 36.0°C to 42.0°C, whilst minimum daily recorded temperatures ranged from 18.5°C to 23.0°C. (**Table 4-2**). 18.0 mm of rainfall was recorded during the February to March Targeted Survey.

During the October Basic and Targeted Fauna Survey, the weather conditions were generally consistent with the long-term average. Maximum daily recorded temperatures ranged from 23.5°C to 35.3°C, whilst minimum daily recorded temperatures ranged from 7.5°C to 15.0°C. (**Table 4-2**). 1.2 mm of rainfall was recorded during the October Targeted Survey.

**Table 4-2: Temperatures and rainfall recorded during the Survey. Blank cells indicate missing data.**

| Date                              | Temperature (°C) |      | Rainfall (mm) | Relative Humidity (%) |         |
|-----------------------------------|------------------|------|---------------|-----------------------|---------|
|                                   | Min              | Max  |               | 9:00 am               | 3:00 pm |
| Preliminary Site Inspection       |                  |      |               |                       |         |
| 9/10/2023                         | 13.0             | -    | 0.0           | 33                    | -       |
| 10/10/2023                        | 15.5             | 28.8 | 0.0           | 67                    | -       |
| 11/10/2023                        | 9.0              | 25.5 | 0.0           | 51                    | -       |
| 12/10/2023                        | 9.0              | 30.5 | 0.0           | 26                    | -       |
| 13/10/2023                        | 17.5             | -    | 0.0           | 25                    | -       |
| Basic and Targeted Fauna Survey 1 |                  |      |               |                       |         |
| 23/02/2024                        | 23.0             | 36.0 | 0.0           | 35.0                  | -       |
| 24/02/2024                        | -                | -    | 0.0           | -                     | -       |
| 25/02/2024                        | -                | -    | 0.0           | -                     | -       |
| 26/02/2024                        | 21.8             | 42.0 | 0.0           | 72                    | -       |
| 27/02/2024                        | 18.8             | 36.5 | 18.0          | 83                    | -       |
| 28/02/2024                        | 15.5             | 33.0 | 0.0           | 57                    | -       |
| 29/02/2024                        | 18.5             | 36.5 | 0.0           | 34                    | -       |
| 1/03/2024                         | -                | -    | -             | -                     | -       |
| Basic and Targeted Fauna Survey 2 |                  |      |               |                       |         |
| 21/10/2024                        | 11.0             | 23.5 | 1.2           | 95                    | -       |
| 22/10/2024                        | 7.5              | 25.0 | 0.0           | 72                    | -       |
| 23/10/2024                        | 10.0             | 29.5 | 0.0           | 82                    | -       |
| 24/10/2024                        | 10.5             | 35.3 | 0.0           | 78                    | -       |
| 25/10/2024                        | 12.5             | -    | 0.0           | 96                    | -       |
| 26/10/2024                        | -                | -    | 0.0           | -                     | -       |
| 27/10/2024                        | -                | 31.0 | 0.0           | -                     | -       |
| 28/10/2024                        | 10.5             | 34.0 | 0.0           | 58                    | -       |
| 29/10/2024                        | 15.0             | -    | 0.0           | 26                    | -       |

## 4.3 Habitat Assessment and Mapping

Detailed habitat assessments were conducted over the Survey Area, to identify and delineate habitats and inform the likelihood of occurrence of significant fauna, as well as informing future survey effort. Within the Survey Area, a total of 14 habitat assessments and two microhabitat assessments were completed (**Figure 4-2; Table 4-5**). An additional 25 habitat assessments and nine microhabitat assessments were completed within the Additional Area. The following habitat characteristics were recorded at each site:



- Landscape features/ landforms;
- Estimate percentage of litter and spoil cover and type;
- Extent of outcropping;
- Course fragment size and percentage of cover;
- Estimate of bare ground percentage;
- Types of disturbance (e.g. evidence of fire, tracks, feral scat);
- Dominant flora species; and
- Microhabitat characteristics.

At each assessment site, representative photos graphs and GPS coordinates were recorded. Habitat assessments were aligned to the Western Australian Index of Biodiversity Surveys for Assessments (IBSA) standards.

## 4.4 Black Cockatoo Habitat Assessments

### 4.4.1 Foraging Habitat

During habitat assessments, suitability of foraging habitat for black cockatoos was assessed in accordance with the foraging habitat scoring tool in the *Referral guideline for 3 WA threatened black cockatoo species* (DAWE 2022a).

Within the Survey Area, a total of 14 foraging habitat assessments were completed, conducted concurrently with habitat assessments, or where foraging evidence was observed. An additional 25 foraging habitat assessments were conducted within the Additional Area. See **Section 5.3.2** for each element of the foraging habitat scoring tool.

### 4.4.2 Roosting Trees

Roosting sites were identified by following Black Cockatoo flocks prior to sunset to roost locations, by observing evidence of roosting during assessments of breeding trees, or by opportunistic observation. Particular attention was paid to tall eucalypts and introduced pines, and to whether defoliation was evident.

### 4.4.3 Breeding Trees

All trees of species that may develop suitable nest hollows were visited during the Surveys. The methods utilised and data collected for potential, suitable, and known breeding trees are summarised in **Table 4-3**, in accordance with DAWE (2022a).



**Table 4-3: Methods and data collected during black cockatoo breeding tree assessments.**

|                       | Breeding Tree Type                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | Potential                                                                                                                                                                                                                                                                                                                                                                                                        | Suitable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Known                                                                                                                                                                                                                                        |
| <b>Method</b>         | All remnant woodland habitat and individual eucalypt trees were visited during the Survey and the Q1 to Q4 2024 Bird and Bat Surveys, to ensure complete coverage of any potential or suitable Black Cockatoo breeding habitat.                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Trees with suitable hollows were revisited during the October Survey, prioritising those trees with the most prospective hollows. A GoPro mounted on telescopic pole was used to check hollows for evidence of nesting ( <b>Plate 4-1</b> ). |
| <b>Data collected</b> | <p>Number and location of all trees of potential hollow-forming species with the minimum diameter at breast height (DBH) were estimated. Minimum DBH are as follows:</p> <ul style="list-style-type: none"> <li>• Powderbark Wandoo (<i>Eucalyptus accedens</i>): 300 mm</li> <li>• River Red Gum (<i>E. camaldulensis</i>); Tuart (<i>E. gomphocephala</i>); York Gum (<i>E. loxophleba</i>): 500 mm</li> </ul> | <p>The exact GPS coordinates of all trees with suitable hollows were recorded, using a differential GPS where possible for <math>\pm 1</math> m accuracy. The following additional information was collected for suitable hollow-bearing trees:</p> <ul style="list-style-type: none"> <li>• Unique identification number</li> <li>• Tree species</li> <li>• Photograph of whole tree</li> <li>• DBH (mm)</li> <li>• Number of hollows larger than 50 mm</li> <li>• Number of hollows smaller than 50 mm</li> <li>• Evidence of gnawing, nesting or roosting, if present</li> <li>• Cockatoo species, if present</li> <li>• Other comments, including other species (e.g. Galah <i>Eolophus roseicapilla</i>) using hollows</li> </ul> | N/A (no known breeding trees were identified within the Survey Area)                                                                                                                                                                         |



**Plate 4-1: GoPro mounted on telescopic pole and back-mounted differential GPS used to examine and record trees with suitable hollows.**

## 4.5 Motion-sensor Cameras

Motion-sensor cameras were deployed across the Survey Area with a focus on suitable habitat for the Western Brush Wallaby and Malleefowl, particularly within open eucalypt woodlands (**Table 4-4**). The motion cameras were deployed within areas that showed signs of fauna activity (e.g. fauna tracks, scats or laydown pads) to detect any other fauna species that may occur within the Survey Area. Cameras were deployed for the following number of nights (**Figure 4-2; Table 4-5**):

- Preliminary Site Inspection: Within the Survey Area, one unbaited camera was deployed between one to four nights (three camera nights). An additional two unbaited cameras were deployed within the Additional Area (Five camera nights); and
- Basic and Targeted Surveys: Within the Survey Area, six cameras baited with universal bait (oats, peanut butter and sardines) were deployed between three to eight nights (40 camera nights). An additional 12 cameras were deployed within the Additional Area (64 camera nights), and four were deployed within neighbouring nature reserves to gather contextual data (25 camera nights).

## 4.6 Targeted Searches

### 4.6.1 Western Spiny-tailed Skink and Malleefowl Transects

Searches for Western Spiny-tailed Skink latrines and Malleefowl mounds and sign were primarily conducted concurrently with black cockatoo tree counts. Habitat in which Western Spiny-tailed Skink (Low Eucalypt Woodland; Shrubland on Lateritic Ridge/Outcrop; River Red Gum Forest) and Malleefowl (Low Eucalypt Woodland; Shrubland on Lateritic Ridge/Outcrop) were considered most likely to occur (**Table 4-4**) also coincide with habitat that was thoroughly assessed for black cockatoo breeding and/or roosting trees. Within the Survey Area, five transects were conducted in suitable Western Spiny-tailed Skink and Malleefowl habitat (approximately 20 person-hours total) habitat (**Figure 4-2; Table 4-5**). An additional 11 transects were conducted within the Additional Area (approximately 44 person-hours), and one was conducted within neighbouring nature reserves (approximately four person-hours) to gather contextual data.

### 4.6.2 Black-striped Snake Searches

Black-striped Snake searches were conducted in microhabitats with loose, sandy substrates, primarily within Diverse Shrubland and Heath (**Table 4-4**), especially areas with larger *Banksia* spp. (Wilson and Swan 2021). As per advice received from Mike Bamford (pers. comm. 2023), a zoologist with over 37 years of survey experience including surveys for Black-striped Snake within the Geraldton Sandplains bioregion, areas with loose sand were dug or raked to a depth of approximately 30 cm during cooler months when the Black-striped Snake is more likely to seek shelter and be less active (He 2021). Within the Survey Area, 30-minute two-person targeted searches were conducted at 12 sites (12 person-hours) (**Figure 4-2; Table 4-5**). Additional 30-minute two-person targeted searches were conducted at four sites within the Additional Area (four person-hours).

### 4.6.3 Invertebrate Searches

Targeted searches were conducted for significant invertebrate taxa, targeting the following three taxa:

- Woollybush Bee: searches of "Woolly Bush" (*Adenanthos* spp.) in Diverse Shrubland and Heath;
- Heath Shield-backed Trapdoor Spider: searches for twig-lined burrows, typical of members of the genus *Idiosoma* (Alacran 2022); and
- *Bothriembryon perobesus* (Terrestrial Snail): hand foraging and sieving in leaf-litter and hand foraging on sand and branches of shrubs in Diverse Shrubland and Heath.

Within the Survey Area, 30-minute two-person targeted searches were conducted at 12 sites (12 person-hours) (**Figure 4-2; Table 4-5**). Additional 30-minute two-person targeted searches were conducted at three sites within the Additional Area (three person-hours).

### 4.6.4 Spotlighting

Spotlighting was conducted on one night during both Basic and Targeted Fauna Surveys (two nights total). The Western Brush Wallaby and Black-striped Snake were the primary target species for this method.

## 4.7 Opportunistic Records

Fauna species were opportunistically recorded whilst transversing through the Survey Area. These opportunistic records will be used to build assemblage data which can be incorporated into future survey results. Opportunistic sightings included:

- Visual observations of species encountered whilst transversing the Survey Area at any time; and
- Ad hoc notation of secondary evidence such as tracks, diggings, scats, bones, skins, burrows and nests.



Table 4-4: Survey methods to detect significant fauna species during the Survey.

| Common Name<br>(Species Name)                                                                           | Pre-Survey<br>Likelihood<br>of<br>Occurrence | Status      |           | Fauna habitats in which species is most likely to occur |                              |                       |                                         |                      |         |                     | Microhabitats |           | Methods                                                  |                                        |                                            |                |              |                                                        |                                      |   |
|---------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------|-----------|---------------------------------------------------------|------------------------------|-----------------------|-----------------------------------------|----------------------|---------|---------------------|---------------|-----------|----------------------------------------------------------|----------------------------------------|--------------------------------------------|----------------|--------------|--------------------------------------------------------|--------------------------------------|---|
|                                                                                                         |                                              | EPBC<br>Act | BC<br>Act | Diverse Shrubland and<br>Heath                          | Open Woodland on<br>Farmland | Low Eucalypt Woodland | Shrubland on Lateritic<br>Ridge/Outcrop | River Red Gum Forest | Wetland | Minor Drainage Line | Planted Trees | Farm Dams | Transects: Western Spiny-<br>tailed Skink and Malleefowl | Habitat Assessments:<br>Black Cockatoo | Targeted Searches: Black-<br>striped Snake | Motion Cameras | Spotlighting | Bird and Bat Utilisation<br>Surveys (separate surveys) | Significant Invertebrate<br>Searches |   |
| Mammals                                                                                                 |                                              |             |           |                                                         |                              |                       |                                         |                      |         |                     |               |           |                                                          |                                        |                                            |                |              |                                                        |                                      |   |
| Western Brush Wallaby<br>( <i>Notamacropus irma</i> )                                                   | Possible                                     | -           | P4        |                                                         |                              | ✓                     |                                         | ✓                    |         |                     |               |           | ✓                                                        |                                        |                                            | ✓              | ✓            |                                                        |                                      |   |
| Aves                                                                                                    |                                              |             |           |                                                         |                              |                       |                                         |                      |         |                     |               |           |                                                          |                                        |                                            |                |              |                                                        |                                      |   |
| Carnaby's Black-Cockatoo<br>( <i>Zanda latirostris</i> )<br><br>(B: breeding; R: roosting; F: foraging) | Confirmed                                    | En          | En        | F                                                       | F                            | B, R, F               | B, F                                    | B, R, F              | R       | R                   | B, R          |           | ✓                                                        | ✓                                      |                                            |                |              | ✓                                                      |                                      |   |
| Malleefowl<br>( <i>Leipoa ocellata</i> )                                                                | Possible                                     | Vu          | Vu        |                                                         |                              | ✓                     | ✓                                       |                      |         |                     |               |           | ✓                                                        |                                        |                                            | ✓              |              | ✓                                                      |                                      |   |
| Grey Falcon<br>( <i>Falco hypoleucos</i> )                                                              | Possible                                     | Vu          | Vu        |                                                         |                              |                       |                                         |                      |         | ✓                   |               |           | ✓                                                        |                                        |                                            |                |              | ✓                                                      |                                      |   |
| Southern Whiteface<br>( <i>Aphelocephala leucopsis</i> )                                                | Possible                                     | Vu          | -         | ✓                                                       | ✓                            | ✓                     | ✓                                       |                      |         | ✓                   |               |           | ✓                                                        |                                        |                                            |                |              | ✓                                                      |                                      |   |
| Peregrine Falcon<br>( <i>Falco peregrinus</i> )                                                         | Confirmed                                    | -           | OS        | ✓                                                       | ✓                            |                       | ✓                                       |                      |         | ✓                   |               |           | ✓                                                        |                                        |                                            |                |              | ✓                                                      |                                      |   |
| Fork-tailed Swift<br>( <i>Apus pacificus</i> )                                                          | Likely                                       | Mi          | Mi        | Aerial forager. May be found across multiple habitats   |                              |                       |                                         |                      |         |                     |               |           | ✓                                                        |                                        |                                            |                |              |                                                        | ✓                                    |   |
| Glossy Ibis<br>( <i>Plegadis falcinellus</i> )                                                          | Possible                                     | Mi          | Mi        |                                                         |                              |                       |                                         |                      | ✓       |                     |               | ✓         | ✓                                                        |                                        |                                            |                |              | ✓                                                      |                                      |   |
| Eastern Cattle Egret<br>( <i>Bubulcus ibis</i> )                                                        | Possible                                     | Mi          | -         |                                                         |                              |                       |                                         |                      | ✓       |                     |               |           | ✓                                                        |                                        |                                            |                |              | ✓                                                      |                                      |   |
| Blue-billed Duck<br>( <i>Oxyura australis</i> )                                                         | Likely                                       | -           | P4        |                                                         |                              |                       |                                         |                      | ✓       |                     |               | ✓         | ✓                                                        |                                        |                                            |                |              | ✓                                                      |                                      |   |
| Reptiles                                                                                                |                                              |             |           |                                                         |                              |                       |                                         |                      |         |                     |               |           |                                                          |                                        |                                            |                |              |                                                        |                                      |   |
| Western Spiny-tailed Skink<br>( <i>Egernia stokesii badia</i> )                                         | Likely                                       | En          | Vu        |                                                         |                              | ✓                     | ✓                                       | ✓                    |         |                     |               |           | ✓                                                        |                                        |                                            | ✓              |              |                                                        |                                      |   |
| Black-striped Snake<br>( <i>Neelaps calonotos</i> )                                                     | Possible                                     | -           | P3        | ✓                                                       |                              |                       |                                         |                      |         |                     |               |           | ✓                                                        |                                        | ✓                                          |                | ✓            |                                                        |                                      |   |
| Invertebrates                                                                                           |                                              |             |           |                                                         |                              |                       |                                         |                      |         |                     |               |           |                                                          |                                        |                                            |                |              |                                                        |                                      |   |
| Heath Shield-backed Trapdoor Spider<br>( <i>Idiosoma kwongan</i> )                                      | Likely                                       | -           | P1        | Habitat preference poorly known                         |                              |                       |                                         |                      |         |                     |               |           |                                                          |                                        |                                            |                |              |                                                        |                                      | ✓ |
| <i>Bothriembryon perobesus</i><br>(Terrestrial Snail)                                                   | Likely                                       | -           | P1        | ✓                                                       |                              |                       |                                         |                      |         |                     |               |           |                                                          |                                        |                                            |                |              |                                                        | ✓                                    |   |
| Woolybush Bee<br>( <i>Hylaeus globuliferus</i> )                                                        | Possible                                     | -           | P3        | ✓                                                       |                              |                       |                                         |                      |         |                     |               |           |                                                          |                                        |                                            |                |              |                                                        | ✓                                    |   |

## 4.8 Survey Effort

Targeted survey methods and consolidated survey effort for each habitat type are presented in **Table 4-5** and **Figure 4-2**.

**Table 4-5: Survey effort by habitat type.**

| Method                                              | Fauna Habitats: Survey Area                                                                       |                           |                       |                                      |                      |         |                     |                                           | Fauna Habitats: Additional Area |                           |                       |                                      |                      |         |                     |                                           | Outside Survey Area<br>(contextual data) | Total |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------|-----------------------|--------------------------------------|----------------------|---------|---------------------|-------------------------------------------|---------------------------------|---------------------------|-----------------------|--------------------------------------|----------------------|---------|---------------------|-------------------------------------------|------------------------------------------|-------|
|                                                     | Diverse Shrubland and Heath                                                                       | Open Woodland on Farmland | Low Eucalypt Woodland | Shrubland on Lateritic Ridge/Outcrop | River Red Gum Forest | Wetland | Minor Drainage Line | Cleared (Paddock / crop / infrastructure) | Diverse Shrubland and Heath     | Open Woodland on Farmland | Low Eucalypt Woodland | Shrubland on Lateritic Ridge/Outcrop | River Red Gum Forest | Wetland | Minor Drainage Line | Cleared (Paddock / crop / infrastructure) |                                          |       |
| Transect: Western Spiny-tailed Skink and Malleefowl | 1                                                                                                 | -                         | 3                     | 3                                    | -                    | -       | -                   | -                                         | -                               | -                         | 7                     | 2                                    | 1                    | -       | -                   | 1                                         | 1                                        | 19    |
| Targeted Search: Black-striped Snake                | 7                                                                                                 | -                         | 3                     | -                                    | -                    | -       | -                   | 2                                         | 1                               | 1                         | -                     | -                                    | -                    | -       | -                   | 2                                         | -                                        | 16    |
| Motion Cameras                                      | 2                                                                                                 | -                         | 4                     | -                                    | -                    | -       | -                   | 1                                         | 1                               | -                         | 4                     | 6                                    | 1                    | -       | 2                   | -                                         | 6                                        | 27    |
| Significant Invertebrate Search                     | 6                                                                                                 | -                         | 2                     | 2                                    | -                    | -       | -                   | 2                                         | 1                               | -                         | 1                     | -                                    | -                    | -       | -                   | 1                                         | -                                        | 15    |
| Habitat Assessment                                  | 6                                                                                                 | 2                         | 1                     | 4                                    | -                    | 1       | -                   | -                                         | 5                               | -                         | 5                     | 5                                    | 2                    | -       | 3                   | 5                                         | -                                        | 39    |
| Microhabitat Assessment                             | Conducted for ephemeral pools and dams                                                            |                           |                       |                                      |                      |         |                     |                                           |                                 |                           |                       |                                      |                      |         |                     |                                           |                                          |       |
| Black Cockatoo Habitat Assessment                   | Coverage of entire Survey Area                                                                    |                           |                       |                                      |                      |         |                     |                                           |                                 |                           |                       |                                      |                      |         |                     |                                           |                                          |       |
| Spotlighting                                        | Coverage of multiple habitats, particularly Low Eucalypt Woodland and Diverse Shrubland and Heath |                           |                       |                                      |                      |         |                     |                                           |                                 |                           |                       |                                      |                      |         |                     |                                           |                                          |       |



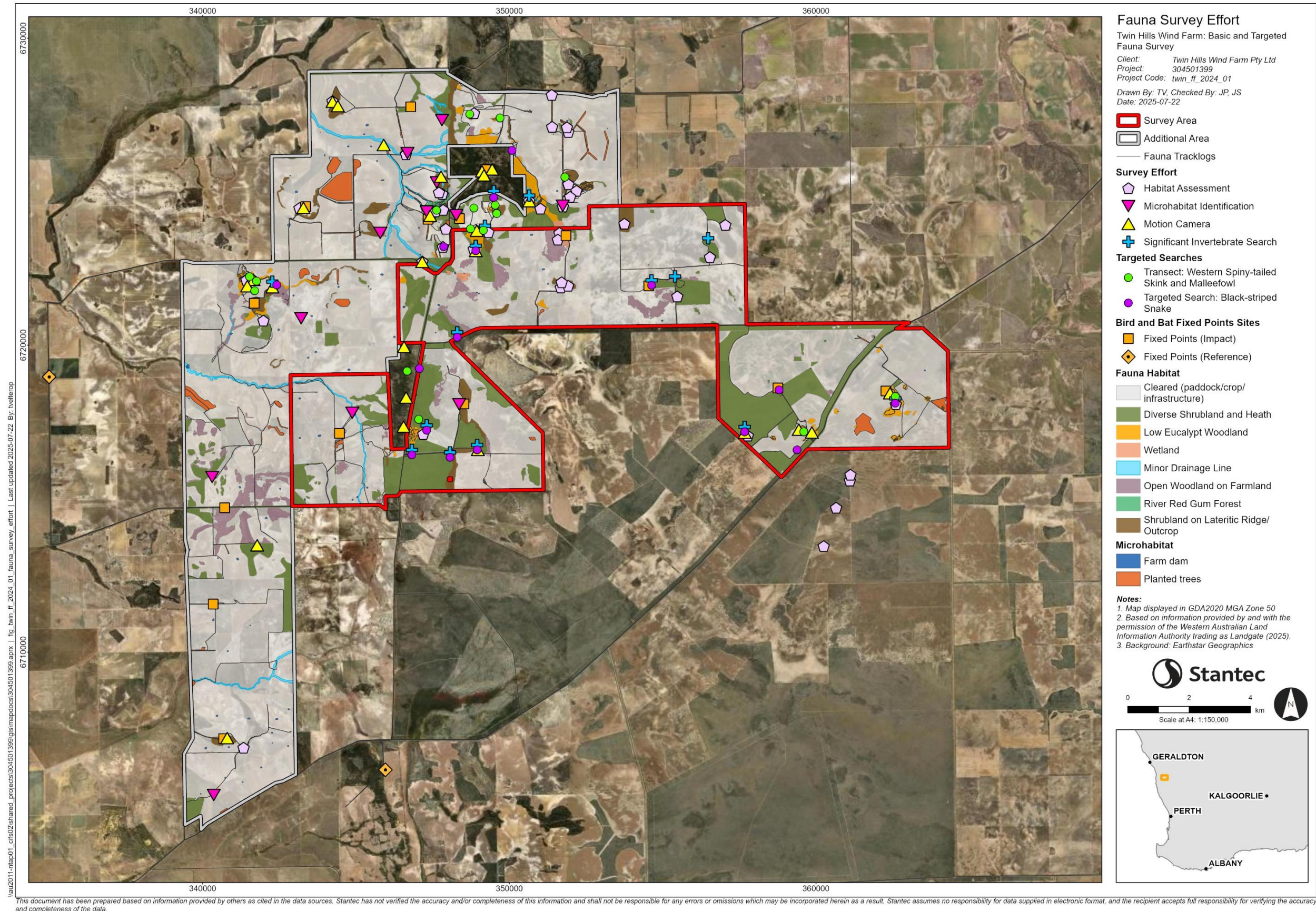


Figure 4-2: Survey effort.

## 4.9 Assessment of Matters of National Environmental Significance

For the purposes of this report, matters of national environmental significance (MNES) are defined as fauna that are listed under the EPBC Act. The criteria for assessment is based on *the MNES Significant Impact Guidelines* (DoE 2013). Significant impact criteria for threatened species requires an assessment of whether the records represent an 'important population' of a species and whether the habitat in the Survey Area represents critical or supporting habitat to the species (). Applicable regulatory guidance and information provided by subject matter experts (SME's) defines whether specific criteria for each MNES species have been met.

**Table 4-6: Criteria for the assessment of MNES species.**

| Species                                                | Critical Habitat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Supporting Habitat                                                                                                                                                                                                                                                                                                                                                                                                                    | Important Population                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Carnaby's Black-Cockatoo<br><i>(Zanda latirostris)</i> | <p><b>Breeding habitat: Habitat that contains known, suitable or potential nesting trees:</b></p> <p>Generally in woodland or forest, but also breeds in partially cleared woodland or forest, including isolated trees. Nest in hollows in live or dead trees (many eucalypt species may provide suitable hollows), particularly Salmon Gum, Wandoo, Tuart, Jarrah, Flooded Gum (<i>E. rudis</i>), York Gum, Powderbark (<i>E. accedens</i>), Karri and Marri containing suitable or potential nesting trees.</p> <p><b>Known nesting trees:</b> Trees (live or dead but still standing) which contains a hollow where black cockatoo breeding has been recorded or which demonstrates evidence of breeding.</p> <p><b>Suitable nesting trees:</b> Trees with suitable nesting hollows present, although no evidence of use. Note that any species of tree may develop suitable hollows for breeding. For most species of trees, suitable nest hollows are only found in live trees with a DBH of at least 500 mm.</p> <p><b>Potential nesting trees:</b> Trees that have a suitable DBH to develop a nest hollow, but do not currently have hollows. Trees suitable to develop a nest hollow in the future are 300-500 mm DBH. Note that many species of eucalypt may develop suitable hollows for breeding</p> <p><b>High-quality foraging habitat</b> (Foraging habitat scoring of 5-10) – as outlined in the referral guideline:</p> <ul style="list-style-type: none"> <li>• &gt; 1 ha in size</li> <li>• Contains suitable feed species</li> <li>• Shows clear evidence of feeding</li> </ul> | <p>Low quality foraging habitat scoring 0-4 using the foraging quality scoring tool.</p> <p>Foraging habitat and watering points* in proximity (e.g. up to 12 km) to breeding habitat</p> <p>Foraging habitat and watering points in proximity (e.g. up to 20 km) to night roosting habitat</p> <p><i>* Watering point: refers to natural water bodies and artificial water sources such as artificial dams, lakes and ponds.</i></p> | <p>An 'Important population' as defined by DoE (2013) is a population that is necessary for a species' long-term survival and recovery. This may include</p> <ul style="list-style-type: none"> <li>• populations identified as such in recovery plans, and/or that are:</li> <li>• key source populations either for breeding or dispersal;</li> <li>• populations that are necessary for maintaining genetic diversity; and/or</li> <li>• populations that are near the limit of the species range.</li> </ul> |



- Is within 12km of a known or suitable nesting site
- Is within 2km of a watering point
- Is within 6km of other foraging habitat
- Is within 20km of known roosting habitat
- Is not suffering significantly from dieback

**Confirmed night roosting site:** Night roosting habitat that contains one or more known night roosting tree and includes all vegetation within a 500 m radius of each known night roosting tree.

Generally occur in or near riparian environments or natural and artificial permanent water sources. Any tall trees may provide roosting habitat, but particularly Flat-topped Yate (*E. occidentalis*), Salmon Gum, Wandoo, Marri, Karri, Blackbutt, Tuart, introduced eucalypts and introduced pines.



## 5. Survey Results and Discussion

### 5.1 Fauna Habitats

Eight fauna habitats were identified, described and mapped during the Survey (**Figure 5-1; Table 5-1**). The habitats were classified as follows:

- Diverse Shrubland and Heath;
- Open Woodland on Farmland
- Low Eucalypt Woodland;
- Shrubland on Lateritic Ridge/Outcrop;
- Minor Drainage Line;
- Wetland;
- River Red Gum Forest (present only in the Additional Area); and
- Cleared (paddock/crop /infrastructure).

Two microhabitats were also described and mapped and during the Survey (**Figure 5-1; Table 5-2**). These two microhabitats were:

- Planted Trees; and
- Farm Dams.

The majority of the Survey Area is Cleared (Paddock/Crop /Infrastructure) (7,416 ha, 74.21 %), with the next most common habitat being Diverse Shrubland and Heath (1,991 ha, 19.93 %). Habitat conditions range from pristine in some areas of Diverse Shrubland and Heath and Shrubland on Lateritic Ridge/Outcrop, to completely degraded in areas that have been subject to heavy grazing, clearing for agriculture, weed invasion and drought. Each of the fauna habitat types identified was defined in terms of distribution, significance and SRE potential according to the following criteria:

- **Distribution:** habitats uncommon and fragmented within the Survey Area were categorised as being of 'limited extent'; otherwise, they were categorised as 'widespread'. Five habitats were considered of limited extent and comprised of Low Eucalypt Woodland (142 ha, 1.42 %); Shrubland on Lateritic Ridge/Outcrop (166 ha, 1.66 ha); Wetland (22 ha, 0.22 %); and Minor Drainage Line (12 ha, 0.12 %). The remaining habitats were considered widespread.
- **Significance:** fauna habitats considered important for significant fauna were categorised as 'significant on a local and regional scale'; otherwise, they were categorised as 'being of limited significance'. Five of the eight habitats were considered significant and may support significant fauna, particularly listed threatened species, or distinct assemblages. The remaining two habitats were of limited significance for supporting significant fauna. The majority of remnant habitat within the Survey Area was in good condition, with the most severe degradation mainly confined to areas of Open Woodland on Farmland, which were likely former shrubland where only the overstorey of *Eucalyptus tottiana* remains after clearing and grazing.
- **SRE Potential:** fauna habitats with the most potential to result in short-range endemism are those that are sheltered, isolated or both. Each habitat was assessed based on the presence of microhabitats, its distribution in the surrounding region, and the connectivity of each habitat. Two habitat was considered of high potential to support SRE species, four have moderate potential, and two have low potential.

Fauna habitats on the Adjacent Land Parcel are discussed in **Appendix F**.



Table 5-1: Fauna habitats identified in the Survey Area. Subject to further habitat assessments and final flora identifications.

| Habitat Distribution, Value and SRE Suitability                                                                                                                                                                                                                                                                                                                                                               | Broad Description and Relevance to Fauna                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Microhabita<br>ts present                                                                                                            | Condition                             | Disturbance<br>Types                                                                                                                    | Extent within Survey<br>Area |       | Representative Photos*                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------|---------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                      |                                       |                                                                                                                                         | ha                           | %     |                                                                                       |
| <p>Diverse Shrubland and Heath</p> <ul style="list-style-type: none"><li>• Distribution: Widespread</li><li>• Significance: Significant</li><li>• SRE Potential: Moderate (despite being widespread, it is the preferred habitat of <i>Bothriembryon perobesus</i> and may be suitable for mygalomorph spiders as they inhabit both mesic and arid environments and may burrow in sandy substrates)</li></ul> | <p>This habitat was characterised by flat to undulating sandplains and slopes, dominated by diverse shrubland or heath. Shrubland and heath vegetation typically includes diverse proteaceous species such as <i>Banksia fraseri</i>, <i>B. sessilis</i>, <i>B. attenuata</i>., <i>Hakea auriculata</i>, <i>Adenanthos</i> spp., <i>Grevillea</i> spp., <i>Petrophile</i> sp., and other shrubs including <i>Acacia saligna</i>, <i>Allocasuarina</i> spp., <i>Calothamnus</i> sp., <i>Xanthorrea</i> sp. and <i>Eremaea pauciflora</i>. In some areas, <i>Eucalyptus tottiana</i> and <i>Nuytsia floribunda</i> scattered low trees or low open woodland are present. Tussock grasses, sedges and herbs including <i>Lomandra</i> sp. and <i>Ecdeiocolea monostachya</i> are present in scattered to very open distributions. Some otherwise undisturbed areas have been drought affected.</p> <p><b>Relevance to fauna:</b> The diverse shrubland would provide foraging, shelter and dispersal opportunities for a range of ground dwelling fauna and small bird species. The sandy substrate may be suited to burrowing species such as the Black-striped snake. Woody debris and leaf litter were rare to moderately common throughout the less disturbed areas of this habitat, with presence of logs and hollows dependent on the presence of <i>E. tottiana</i>. These microhabitats would provide coverage for a range of ground-dwelling fauna, potentially including the Western Spiny-tiled Skink and Black-striped Snake. Areas with remnant understorey include foraging habitat for Carnaby's Black Cockatoo.</p> | <ul style="list-style-type: none"><li>• Dense shrubs</li><li>• Leaf litter</li><li>• Shaded refugia</li><li>• Woody debris</li></ul> | <p>Pristine – Degraded</p>            | <ul style="list-style-type: none"><li>• Livesock grazing</li><li>• Invasive weeds</li><li>• Access tracks</li></ul>                     | 1,991.26                     | 19.93 |   |
| <p>Open Woodland on Farmland</p> <ul style="list-style-type: none"><li>• Distribution: Widespread</li><li>• Significance: Not Significant</li><li>• SRE Potential: Low</li></ul>                                                                                                                                                                                                                              | <p>This habitat is generally Diverse Shrubland and Heath habitat that has been subject to significant degradation, especially grazing and/or clearing of understorey vegetation. In most areas <i>Eucalyptus tottiana</i> scattered low trees or low open woodland are the most common overstorey, with occasional <i>Nuytsia floribunda</i>, <i>E. loxophleba</i> and <i>E. accedens</i> in some areas.</p> <p><b>Relevance to fauna:</b> This habitat type is unlikely to provide significant foraging or refuge potential. Carnaby's Black-Cockatoos have been observed perching in <i>E. tottiana</i> within this habitat.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <ul style="list-style-type: none"><li>• Shaded refugia</li></ul>                                                                     | <p>Degraded – Completely Degraded</p> | <ul style="list-style-type: none"><li>• Clearing</li><li>• Livestock grazing</li><li>• Invasive weeds</li><li>• Access tracks</li></ul> | 243.57                       | 2.44  |  |

| Habitat Distribution, Value and SRE Suitability                                                                                                                                    | Broad Description and Relevance to Fauna                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Microhabita<br>ts present                                                                                                                                                                        | Condition            | Disturbance<br>Types                                                                                                                 | Extent within Survey Area |      | Representative Photos*                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------|---------------------------------------------------------------------------------------|
|                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                  |                      |                                                                                                                                      | ha                        | %    |                                                                                       |
| Low Eucalypt Woodland <ul style="list-style-type: none"><li>• Distribution: Limited</li><li>• Significance: Significant</li><li>• SRE Potential: High</li></ul>                    | <p>This habitat is characterised by sandplains, breakaways and gravel slopes generally with <i>Eucalyptus accedens</i> (Powderbark Wandoo) but occasionally <i>E. loxophleba</i> (York Gum) woodlands, either with or without a mixed medium to low shrub understory. Understorey species include <i>Allocasuarina campestris</i>, <i>Pericalymma ellipticum</i>, <i>Xanthorrea</i> sp. and rush and sedge species including <i>Ecdeiocolea monostachya</i>. The larger patches of this habitat are generally in excellent or very good condition. Some smaller patches lack understory as a result of clearing or grazing.</p> <p><b>Relevance to fauna:</b> Medium to small sized hollows were common within this habitat type which would provide breeding and refuge sites for microbats and arboreal species. In addition, larger hollows are present, and provide nesting sites for hollow-dependent birds, which may include Carnaby’s Black-Cockatoo. Hollowed logs, woody debris, leaf litter and scattered rocks of various sizes were common throughout this habitat and would provide refuge for a range of ground-dwelling fauna including the Western Spiny-tailed Skink, and potential mound-building substrate for Malleefowl.</p> | <ul style="list-style-type: none"><li>• Tree hollows</li><li>• Leaf litter</li><li>• Woody debris</li><li>• Hollow logs</li><li>• Various sized rocks</li><li>• Minor outcroppin<br/>g</li></ul> | Excellent – Degraded | <ul style="list-style-type: none"><li>• Livesock grazing</li><li>• Invasive weeds</li><li>• Access tracks</li></ul>                  | 141.78                    | 1.42 |    |
| Shrubland on Lateritic Ridge/Outcrop <ul style="list-style-type: none"><li>• Distribution: Limited</li><li>• Significance: Significant</li><li>• SRE Potential: Moderate</li></ul> | <p>This habitat was characterised by lateritic slopes and high ground with <i>Allocasuarina campestris</i> and <i>Melaleuca uncinata</i> (Brushwood) tall to low shrubland, with occasional <i>Eucalyptus accedens</i> and <i>Eucalyptus loxophleba</i> trees. Other shrub species in the habitat include <i>Pericalymma ellipticum</i>, <i>Hakea auriculata</i> and <i>Banksia fraseri</i>. Sedges and grass such as <i>Ecdeiocolea monostachya</i> are sparsely distributed. This habitat remains in small patches at higher elevation and is generally in pristine or excellent condition.</p> <p><b>Relevance to fauna:</b> This habitat type consists of a dense shrub layer which would provide shelter, foraging and dispersal opportunities for a range of ground dwelling fauna species and small woodland bird species. Carnaby’s Black-Cockatoos are known to forage in <i>A. campestris</i>.</p>                                                                                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"><li>• Leaf litter</li><li>• Low, dense vegetation cove</li><li>• Shaded refugia</li></ul>                                                                      | Pristine – Good      | <ul style="list-style-type: none"><li>• Livesock grazing</li><li>• Invasive weeds</li><li>• Access tracks</li></ul>                  | 166.23                    | 1.66 |   |
| Wetland <ul style="list-style-type: none"><li>• Distribution: Limited</li><li>• Significance: Significant</li><li>• SRE Potential: Moderate</li></ul>                              | <p>Low lying wetland areas, generally <i>Melaleuca raphiophylla</i> (Swamp Paperbark) low woodland over <i>Melaleuca uncinata</i> shrubland with an understory of <i>Tecticornia</i> spp. (samphire), <i>Juncus acutus</i> (Spiny Rush) and patches of invasive grasses in some areas. Other areas lack Melaleuca overstorey and are dominated by <i>J. acutus</i> and grasses. This habitat is likely to temporarily hold water after rainfall events. Some small patches of wetland are fed by springs and are likely to be permanent or semi-permanent water sources.</p> <p><b>Relevant to fauna:</b> This habitat type would provide foraging, shelter and dispersal opportunities for a range of ground dwelling fauna and avifauna species. Woody debris was rare in most areas of this habitat with some stag trees present suitable for microbat species.</p>                                                                                                                                                                                                                                                                                                                                                                             | <ul style="list-style-type: none"><li>• Leaf litter</li><li>• Shaded refugia</li></ul>                                                                                                           | Good – Degraded      | <ul style="list-style-type: none"><li>• Runoff from agricultural land</li><li>• Invasive Weeds</li><li>• Livestock grazing</li></ul> | 22.07                     | 0.22 |  |

| Habitat Distribution, Value and SRE Suitability                                                                                                                                            | Broad Description and Relevance to Fauna                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Microhabita<br>ts present                                                                                                                    | Condition                       | Disturbance Types                                                                                                                                                 | Extent within Survey Area |       | Representative Photos*                                                                                                                                                      |
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|                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                              |                                 |                                                                                                                                                                   | ha                        | %     |                                                                                                                                                                             |
| Minor Drainage Line <ul style="list-style-type: none"> <li>• Distribution: Limited</li> <li>• Significance: Not Significant</li> <li>• SRE Potential: Moderate</li> </ul>                  | <p>Minor drainage lines are smaller channels (&lt;10m wide) which temporarily carry water after rainfall events. These typically consisting of clay substrate and are lined with a variety of tree and shrub species depending on the habitats they intersect. Some small sections of minor drainage lines are in excellent or very good condition, but most are degraded to completely degraded and lined with pastoral grasses. Most minor drainage lines are unlikely to support water for long periods of time after rainfall. Some minor drainage lines are fed by springs and are likely to be permanent or semi-permanent water sources.</p> <p><b>Relevance to fauna species:</b> Vegetation along the drainage lines may be important for roosting and nesting of avifauna, and the presence of shade and leaf litter may provide important shelter for ground dwelling fauna. Minor drainage lines may also serve as dispersal routes for fauna that may be restricted to other habitats in the Survey Area.</p>               | <ul style="list-style-type: none"> <li>• Drainage system</li> <li>• Tree hollows</li> <li>• Leaf litter</li> <li>• Shaded refugia</li> </ul> | Excellent – Completely Degraded | <ul style="list-style-type: none"> <li>• Runoff from agricultural land</li> <li>• Livestock grazing</li> <li>• Invasive weeds</li> <li>• Access tracks</li> </ul> | 12.11                     | 0.12  |       |
| River Red Gum Forest <ul style="list-style-type: none"> <li>• Distribution: Limited</li> <li>• Significance: Significant</li> <li>• SRE Potential: High</li> </ul>                         | <p><b>Present in Additional Area only</b></p> <p>This habitat is characterised by tall and open Low Eucalypt Woodlands of <i>Eucalyptus camaldulensis</i> (River Red Gum) in low-lying areas close to Minor Drainage Lines and springs. The understorey is generally grazed and/or cleared. In some areas, native and non-native grasses cover most of the substrate. In other areas, most of the ground is covered in leaf litter.</p> <p><b>Relevance to fauna:</b> Medium to small sized hollows were common within this habitat type which would provide breeding and refuge sites for microbats and arboreal species. In addition, larger hollows are present, and provide nesting sites for hollow-dependent birds, which may include Carnaby’s Black-Cockatoo. Hollowed logs, woody debris and leaf litter were common throughout this habitat and would provide refuge for a range of ground-dwelling fauna, which may include the Western Spiny-tailed Skink, though there is little refuge offered by understorey species.</p> | <ul style="list-style-type: none"> <li>• Tree hollows</li> <li>• Leaf litter</li> <li>• Woody debris</li> <li>• Hollow logs</li> </ul>       | Good – Degraded                 | <ul style="list-style-type: none"> <li>• Livesock grazing</li> <li>• Invasive weeds</li> <li>• Access tracks</li> </ul>                                           | 0                         | 0     |     |
| Cleared (paddock/crop /infrastructure) <ul style="list-style-type: none"> <li>• Distribution: Widespread</li> <li>• Significance: Not Significant</li> <li>• SRE Potential: Low</li> </ul> | <p>Cleared paddocks used for livestock grazing and/or crop including wheat, oilseeds and legumes. Habitat values are limited with scattered paddock trees and areas of native and exotic grasses. Farm tracks, homesteads, sheds and other agricultural infrastructure are also present on cleared land.</p> <p><b>Relevance to fauna:</b> Pasture with crop may provide some dispersal opportunities for small mammals and reptiles. Raptors, granivorous birds and larger mammal species forage in this habitat. Scattered paddock trees where present may also provide suitable habitat for raptors and other birds species including roosting and tree hollows that may be nesting habitat for Carnaby’s Black-Cockatoo. A Peregrine Falcon was observed foraging over this habitat.</p>                                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>• Planted Eucalyptus trees</li> <li>• Farm dams</li> </ul>                                            | Completely Degraded             | <ul style="list-style-type: none"> <li>• Clearing</li> <li>• Livestock grazing</li> <li>• Invasive weeds</li> <li>• Access tracks</li> </ul>                      | 7,416.26                  | 74.21 |   |
| Total                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                              |                                 |                                                                                                                                                                   | 9,993.29                  | 100   |                                                                                                                                                                             |

\*Some representative photos were taken within the Additional Area

**Table 5-2: Fauna microhabitats identified in the Survey Area. Subject to further habitat assessments and final flora identifications.**

| Microhabitat Distribution and Value                                                                                                                                                                | Broad Description and Relevance to Fauna                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Representative Photos*                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <p>Planted Trees</p> <ul style="list-style-type: none"> <li>• Limited</li> <li>• Low to high value to conservation significant species, depending upon species and size of planted tree</li> </ul> | <p>Large planted introduced <i>Eucalyptus</i> spp. and a small number of introduced conifers along driveways, fencelines and around homesteads. Also, a small number of paddocks with rows of planted <i>Acacia</i> spp. and mallee eucalypts.</p> <p><b>Relevance to fauna species:</b> Planted eucalypts may provide suitable habitat for raptors and other birds species including roosting and tree hollows that may be nesting habitat for Carnaby's Black-Cockatoo. Introduced conifers are foraging habitat and potential roosting habitat for Carnaby's Black-Cockatoo (DAWE 2022a).</p>              |   |
| <p>Farm Dams</p> <ul style="list-style-type: none"> <li>• Limited</li> <li>• Moderate value to conservation significant species</li> </ul>                                                         | <p>Farm dams were scattered throughout the Survey Area. The farm dams contained varying levels of water and had little to no fringing woodland or aquatic vegetation with varying degree of sloping banks.</p> <p><b>Relevance to Fauna:</b> The farm dams have limited habitat values for water birds due to the lack of suitable fringing vegetation required for refuge. However, waterbird species such as Australia wood duck (<i>Chenonetta jubata</i>), Australasian Grebe (<i>Tachybaptus novaehollandiae</i>) and Black-tailed Native-hen (<i>Tribonyx ventralis</i>) utilise this microhabitat.</p> |  |

\*Some representative photos were taken within the Additional Area



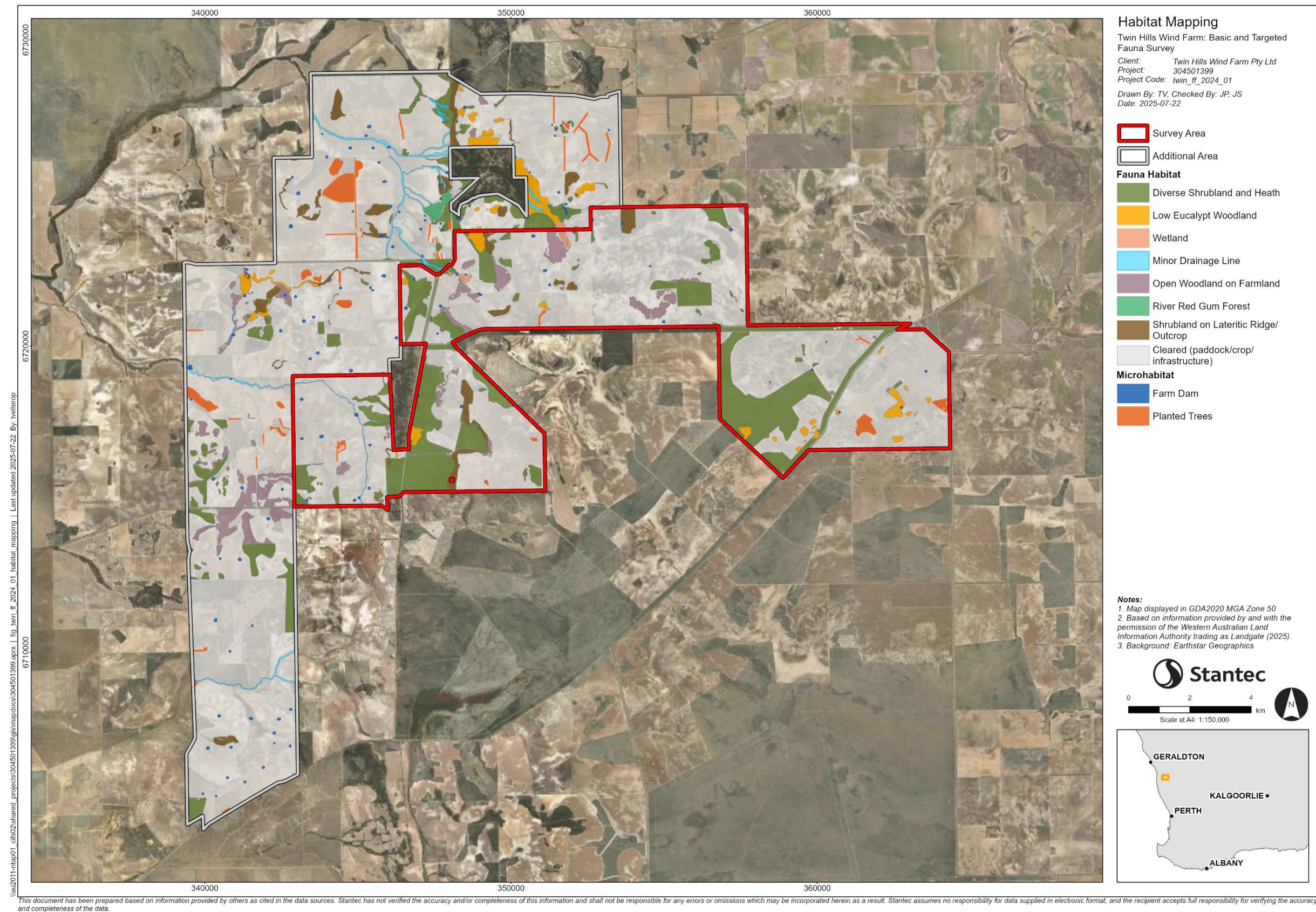


Figure 5-1: Fauna habitat mapping within the Survey Area and Additional Area.

## 5.2 Fauna Assemblages

During the Survey and BBUSs, a total of 137 terrestrial fauna species were recorded comprising 10 native mammals, five introduced mammals, 113 native birds, one introduced bird, seven reptiles and one amphibian (Appendix B). Species recorded during the Survey were observed via the methods described in **Section 4**. Species recorded during the BBUS were either recorded during bird fixed point counts, on acoustic (bird) and echolocation (bat) units, or opportunistically. The avifauna diversity recorded during the Survey is high compared to other surveys conducted in the region, likely due to the use of methods targeting avifauna (BBUSs). Two native species and two introduced species had not been previously identified during the desktop assessment: the Northern Free-tailed Bat (*Ozimops lumsdenae*), Inland Broad-nosed Bat (*Scotorepens balstoni*), Black Rat (*Rattus rattus*) and Pig (*Sus scrofa*).

## 5.3 Significant Fauna

### 5.3.1 Likelihood of Occurrence

The desktop assessment identified a total of 66 significant vertebrate fauna species and seven significant invertebrate fauna (73 significant species total) with the potential to occur within the Survey Area, comprising six mammals, 57 birds, three reptiles, two mygalomorph spiders, one terrestrial snail and four insects (**Section 3.3.2**). Two species, the Carnaby's Black-Cockatoo (*Zanda latirostris*) (En; En) and the Peregrine Falcon (*Falco peregrinus*) (OS), were confirmed within the Survey Area. Carnaby's Black-Cockatoos were recorded multiple times within the Survey Area during the BBUSs including in large flocks. Additionally, records from within the Additional Area were identified during the desktop assessment, and the species was recorded within the Additional Area, Nature Reserves and in close proximity to these areas during the Survey. One Peregrine Falcon was observed opportunistically within the Survey Area near the north-eastern boundary during the Q4 2024 BBUS. Additionally, a long unused Malleefowl mound was recorded within the Survey Area during the Q2 2024 BBUS. Based on the age of the mound (National Malleefowl Recovery Team 2020), the lack of other mounds/activity within the Survey Area, and the activity of foxes and cats in the vicinity, the original likelihood assessment of "possible" for this species is considered correct.

The likelihood of occurrence for each significant species was assessed against the criteria provided in **Section 3.3.2**, and are detailed in **Table 5-3**. In addition to the Carnaby's Black-Cockatoo and Peregrine Falcon that were confirmed within the Survey Area, five species were considered likely to occur within the Survey Area based on the presence of suitable habitat and the presence of nearby recent records. Eight species were classified as possible to occur, and 30 species were classified as unlikely to occur.

In addition, 28 significant species were not assessed against the likelihood of occurrence criteria, as their current range is located outside of the Survey Area and no recent records were identified, or because they were recorded in the desktop searches only from coastal or marine habitats that do not occur in the Survey Area. The following species are considered not relevant within the context of this assessment:

- Dibbler (*Parantechinus apicalis*) (En; En). The Survey Area is outside of the current range (van Dyck *et al.* 2013) and there are no recent records (DBCA 2022).
- Ghost Bat (*Marcoderma gigas*) (Vu; Vu). The Survey Area is outside of the current range (van Dyck *et al.* 2013) and the only records are of fossils (DBCA 2022).
- Forest Red-tailed Black-Cockatoo (*Calyptorhynchus banksii naso*) (Vu; Vu). The Survey Area is outside of the current range (Menkhorst *et al.* 2019) and the record (DBCA 2022) is suspected to be the non-listed subspecies *Calyptorhynchus banksii samueli*, which was recorded during the Survey.
- Night Parrot (*Pezoporus occidentalis*) (Cr; En). The Survey Area is outside of the current range (Menkhorst *et al.* 2019) and there are no recent records (DBCA 2022).
- Western Ground Parrot (*Pezoporus flaviventris*) (Cr; Cr). The Survey Area is outside of the current range (Menkhorst *et al.* 2019) and there are no recent records (DBCA 2022).
- 23 species of pelagic birds (eight albatrosses, two noddies, eight terns, three petrels and two shearwaters). The records of these species in the desktop searches were from marine environments.



Table 5-3: Likelihood of occurrence assessment.

| Common Name<br><br>( <i>Scientific Name</i> )                            | Conservation Status              |                                  | Key Threats and Reason for Listing                                                                                                                                                                                   | Habitat and Ecology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Likelihood of Occurrence and Reason for Likelihood                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------|----------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                          | BC                               | EPBC                             |                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Mammalia                                                                 |                                  |                                  |                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Chuditch<br><br>( <i>Dasyurus geoffroii</i> )                            | Vulnerable                       | Vulnerable                       | Threats include: <ul style="list-style-type: none"><li>Land clearing;</li><li>Removal of suitable den logs and den sites; and</li><li>Predation by and competition from, feral cats and foxes (DBCA 2017).</li></ul> | Previously occupied a range of habitats, but now confined to Jarrah ( <i>Eucalyptus marginata</i> ) forests and woodlands, mallee shrublands and heathlands (DBCA 2017).<br><br>Habitat critical for survival of the species in the Survey Area (DEC 2012a) may include: <ul style="list-style-type: none"><li>Low Eucalypt Woodland</li><li>River Red Gum Forest</li><li>Shrubland on Lateritic Ridge/Outcrop</li></ul>                                                                                             | <b>Unlikely</b><br><br>The Survey Area may support suitable habitat for the species; however, the Survey Area is northwest of the species' known range (Baker and Gynther 2023; DBCA 2017) and therefore there are no records of the species within the Survey Area or surrounding area. Consequently, the species was assessed as unlikely to occur.                                                                                                               |
| Tammar Wallaby<br><br>( <i>Notamacropus eugenii</i> )                    | Priority 4                       | -                                | The main threats to the species are habitat destruction and predation from feral predators (Baker and Gynther 2023).                                                                                                 | Coastal scrub, heath, dry sclerophyll forest and thickets in mallee and woodland. Requires dense, low vegetation for daytime shelter and open, grassy areas for feeding (Baker and Gynther 2023).<br><br>Suitable habitat in the Survey Area may include: <ul style="list-style-type: none"><li>Diverse Shrubland and Heath</li><li>Shrubland on Lateritic Ridge/Outcrop</li><li>Low Eucalypt Woodland</li><li>River Red Gum Forest</li></ul>                                                                        | <b>Unlikely</b><br><br>The Survey Area may support suitable habitat for the species; however, the Survey Area is outside the species known range (largely restricted to offshore islands and southern-western Australia where numbers have greatly reduced) (Baker and Gynther 2023) and therefore there are no records of the species within the Survey Area or surrounding area. Consequently, the species was assessed as unlikely to occur.                     |
| Western Brush Wallaby<br><br>( <i>Notamacropus irma</i> )                | Priority 4                       | -                                | The main threats to the species are habitat loss, predation from foxes and illegal hunting (Baker and Gynther 2023).                                                                                                 | This species is cryptic, and little is known about it. It is known to occur in open forest or woodland, particularly open, seasonally wet flats with low grasses and open, scrubby thickets. Also larger areas of mallee and health land in wheatbelt (Baker and Gynther 2023).<br><br>Suitable habitat within the Survey Area may include: <ul style="list-style-type: none"><li>Low Eucalypt Woodland</li><li>River Red Gum Forest</li></ul>                                                                       | <b>Possible</b><br><br>The Survey Area occurs within the most northern extent of the species known distribution and supports suitable habitat. The species has been recorded at three locations in 2002, 1985 and 1983 between 30 km and 35 km northwest of the Survey Area near Yardanogo nature Reserve (DBCA 2023a). This species is known to be cryptic and does not venture into open pasture areas adjacent to its bushland refuges (Baker and Gynther 2023). |
| Brush-tailed Phascogale<br><br>( <i>Phascogale tapoatafa wambenger</i> ) | Conservation Dependent           | -                                | The main threats are habitat loss, fragmentation, fire and predation from feral species such as cats and foxes (Baker and Gynther 2023).                                                                             | Within the south-west of Western Australia, the distribution is predominantly confined to woodland south of the Darling Scarp (Baker and Gynther 2023). The species inhabit open forests with sparse groundcover but uses habitats ranging from mallee to rainforest. Highly mobile, they forage on mature trees, large logs and dead standing trees.<br><br>Suitable habitat within the Survey Area may include: <ul style="list-style-type: none"><li>Low Eucalypt Woodland</li><li>River Red Gum Forest</li></ul> | <b>Unlikely</b><br><br>While the Survey Area may contain suitable habitat for the species, there is only one uncertain species record, recorded 24 km north of the Survey Area in 2000 (DBCA 2023a). The Survey Area is also outside the species' known distribution; therefore, it is unlikely that the Brush-tailed Phascogale would occur within the Survey Area.                                                                                                |
| Aves                                                                     |                                  |                                  |                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 18 migratory shorebirds                                                  |                                  |                                  | These species migrate between Australia and Siberia, and through much of Asia. Therefore,                                                                                                                            | Species commonly associated with shallow aquatic habitats, including wetlands, marches, sewage ponds, river and creek line                                                                                                                                                                                                                                                                                                                                                                                           | <b>Unlikely</b><br><br>The Survey Area may contain marginally suitable foraging habitat in the form of Minor Drainage Lines, wetlands and                                                                                                                                                                                                                                                                                                                           |
| Bar-tailed Godwit ( <i>Limosa lapponica</i> )                            | Critically Endangered; Migratory | Critically Endangered; Migratory |                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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| Eastern Curlew ( <i>Numenius madagascariensis</i> )          | Vulnerable; Migratory | Critically Endangered; Migratory | protected under international agreements CAMBA, JAMBA and ROKAMBA.<br><br>Habitat loss and degradation are the largest threats to these species, particularly the availability for foraging and roosting sites required for successful migration and breeding (Garnett and Baker 2022).                                                                                                                                                                                                                                                                                                                                                                                | flats, tidal flats or grassy edges of wetlands (Menkhorst <i>et al.</i> 2019).<br><br>Suitable habitat within the Survey Area may include: <ul style="list-style-type: none"> <li>Farm dams</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | water sources and several species have been recorded at a location 20 km west of the Survey Area (Common Greenshank, Common Sandpiper, Sharp-tailed Sandpiper, Red-necked Stint, and Eastern Curlew) have been recorded at a location 20 km south-west of the Survey Area (BirdLife Australia 2023; DBCA 2023a). However, many of these records are over 10 years old and consequently, these species were assessed as unlikely to occur. |
| Curlew Sandpiper ( <i>Calidris ferruginea</i> )              | Vulnerable; Migratory | Critically Endangered; Migratory |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Australian Painted Snipe ( <i>Rostratula australis</i> )     | Endangered; Migratory | Endangered                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Lesser Sand Plover ( <i>Charadrius mongolus</i> )            | Endangered; Migratory | Migratory                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Grey-tailed Tattler ( <i>Tringa brevipes</i> )               | Migratory; Priority 4 | Migratory                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Hooded Plover ( <i>Charadrius mongolus</i> )                 | Priority 4            |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Grey Plover ( <i>Pluvialis squatarola</i> )                  | Migratory             | Migratory                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Ruddy Turnstone ( <i>Arenaria interpres</i> )                | Migratory             | Migratory                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Sharp-tailed Sandpiper ( <i>Calidris acuminata</i> )         | Migratory             | Migratory                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Red Knot ( <i>Calidris canutus</i> )                         | Migratory             | Endangered; Migratory            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Pectoral Sandpiper ( <i>Calidris melanotos</i> )             | Migratory             | Migratory                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Red-necked Stint ( <i>Calidris ruficollis</i> )              | Migratory             | Migratory                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Whimbrel ( <i>Numenius phaeopus</i> )                        | Migratory             | Migratory                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Wood Sandpiper ( <i>Tringa glareola</i> )                    | Migratory             | Migratory                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Common Sandpiper ( <i>Actitis hypoleucos</i> )               | Migratory             | Migratory                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Common Greenshank ( <i>Tringa nebularia</i> )                | Migratory             | Migratory                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Terek Sandpiper ( <i>Xenus cinereus</i> )                    | Migratory             | Migratory                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Baudin's Black-Cockatoo<br><br>( <i>Zanda baudinii</i> )     | Endangered            | Endangered                       | <p>The main threats to Baudin's and Carnaby's Black Cockatoo include:</p> <ul style="list-style-type: none"> <li>Extensive clearing of breeding habitat and a lack of regeneration of potential nest trees due to grazing by sheep and rabbits;</li> <li>Competition for nest hollows with other birds and the feral European honeybee;</li> <li>Death and injury resulting from vehicle strike;</li> <li>Illegal shooting by orchardists and pine plantation owners;</li> <li>Reduced food and water availability due to climate change; and</li> <li>Death and injury resulting from extreme weather events exacerbated by climate change (DCCEEW 2023a).</li> </ul> | <p>Baudin's Cockatoo occurs in south-west Western Australia. The range extends from Albany northward to Gidgeannup and Mundring, and inland to Stirling Ranges and near Kolonup. The species distribution is determined by the presence of Marri (<i>Corymbia calophylla</i>), Jarrah (<i>Eucalyptus marginata</i>) and Karri (<i>Eucalyptus diversicolor</i>) forests (DCCEEW 2023a). The species feeds on native shrubland vegetation including Banksia and Hakea species, and <i>Erodium botrys</i> and Dryandra species, as well as invertebrate larvae and fruit in orchards (DAWE 2022a). Baudin's cockatoo may roost in any tall trees, particularly in riparian areas, and may breed in any trees with suitable hollows (DAWE 2022a).</p> <p>Breeding habitat in the Survey Area may include:</p> <ul style="list-style-type: none"> <li>Low Eucalypt Woodland</li> <li>Planted Eucalyptus trees</li> </ul> <p>Roosting habitat in the Survey Area may include:</p> <ul style="list-style-type: none"> <li>Low Eucalypt Woodland</li> <li>Minor Drainage Line</li> <li>Planted Trees</li> </ul> <p>Foraging habitat in the Survey Area may include:</p> <ul style="list-style-type: none"> <li>Diverse Shrubland and Heath</li> <li>Open Woodland on Farmland</li> <li>Low Eucalypt Woodland</li> <li>Shrubland on Lateritic Ridge/Outcrop</li> </ul> | <p><b>Unlikely</b></p> <p>The Survey Area contains suitable foraging and potential breeding habitat. However, the Survey Area is outside the species known distribution which occurs in the south-west north to Gidgegannup (DAWE 2022a).</p>                                                                                                                                                                                             |
| Carnaby's Black-Cockatoo<br><br>( <i>Zanda latirostris</i> ) | Endangered            | Endangered                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p>The species feeds on native shrubland vegetation, particularly flowers, seeds and nectar of proteaceous plants (e.g. Banksia, Hakea, Dryandra and Grevillea species), Marri and <i>Callistemon</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p><b>Confirmed</b></p> <p>The Survey Area contains suitable foraging habitat, suitable breeding habitat and is within approximately 2 km</p>                                                                                                                                                                                                                                                                                             |

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|                                                                   |            |            |                                                                                                                                                                                                                                                                                                                                                                                                                           | <p>spp. (DAWE 2022a).Carnaby's Cockatoo may roost in any tall trees, particularly in riparian areas, and may breed in any trees with suitable hollows (DAWE 2022a).</p> <p>Breeding habitat in the Survey Area may include:</p> <ul style="list-style-type: none"><li>• Low Eucalypt Woodland</li><li>• <i>Eucalyptus loxophleba</i> (York Gum) within Shrubland on Lateritic Ridge/Outcrop</li><li>• Planted Eucalyptus trees</li></ul> <p>Roosting habitat in the Survey Area may include:</p> <ul style="list-style-type: none"><li>• Low Eucalypt Woodland</li><li>• Minor Drainage Line</li><li>• Planted Trees</li></ul> <p>Foraging habitat in the Survey Area may include:</p> <ul style="list-style-type: none"><li>• Diverse Shrubland and Heath</li><li>• Open Woodland on Farmland</li><li>• Low Eucalypt Woodland</li><li>• Shrubland on Lateritic Ridge/Outcrop</li></ul> | <p>of a confirmed roost. Carnaby's Black-Cockatoos were recorded multiple times during the Bird and Bat Utilisation Surveys for this project including in large flocks of up to 380 individuals. The species was also observed within the Survey Area during the Stantec (2023) flora survey, and outside the Survey Area during the Fauna Site Inspection and records from within the Survey Area were identified during the desktop assessment, and the species was recorded outside the Survey Area during the preliminary site inspection and a previous fauna survey by ENV Australia (2013). The species has also been recorded 26 times within 10 km of the Survey Area between 1999 and 2023 (BirdLife Australia 2023).</p> |
| <p>Malleefowl</p> <p>(<i>Leipoa ocellata</i>)</p>                 | Vulnerable | Vulnerable | <p>Threats include:</p> <ul style="list-style-type: none"><li>• Clearing of land resulting in removal of Malleefowl habitat, habitat fragmentation and dryland salinity;</li><li>• Grazing of land leading to less food availability and changing the structure and floristic diversity of habitats; and</li><li>• Predation from dogs, cats and foxes. Particularly on newly hatched chicks (Benshemesh 2007).</li></ul> | <p>Knowledge of specific habitat preferences are limited; however, the species tends to inhibit arid or semi-arid shrublands or woodlands dominated by long unburnt mallee, and may also occur in areas dominated by Acacia sp., wandoo, marri or mallet (Benshemesh 2007). Preferred substrate consists of sandy loams and loamy construction and may contain gravel or lateritic fragments. Diet is variable, including the seeds, flowers and fruits of shrubs (especially legumes), herbs, invertebrates, tubers and fungi (Benshemesh 2007).</p> <p>Habitat critical for survival of the species (Benshemesh 2007) in the Survey Area may include:</p> <ul style="list-style-type: none"><li>• Low Eucalypt Woodland</li><li>• Shrubland on Lateritic Ridge/Outcrop</li></ul>                                                                                                      | <p><b>Possible</b></p> <p>The Survey Area occurs within the species known range and supports suitable habitat for the species. The species has been recorded 21 times from 1964 to 2018, within a 40 km radius of the Survey Area (DBCA 2023a).</p> <p>During the Q2 2024 BBUS, one long unused (National Malleefowl Recovery Team 2020) Malleefowl mound was recorded within the Survey Area, in Low Eucalypt Woodland. Based on the age of the mound, the lack of other mounds/activity within the Survey Area (to be confirmed), and the activity of foxes and cats in the vicinity, the species was assessed as possible to occur.</p>                                                                                          |
| <p>Grey Falcon</p> <p>(<i>Falco hypoleucos</i>)</p>               | Vulnerable | Vulnerable | <p>The largest threat to this species is associated with clearing for agriculture, which has reduced habitat in semi-arid zones (Garnett and Baker 2022). Also gazing by exotic herbivores is likely to have reduced regeneration of trees in the arid zone, therefore reducing nesting habitat availability (Garnett and Baker 2022).</p>                                                                                | <p>The species inhabits open plains with treed watercourses in inland arid regions (DCCEEW 2023a). Tends to forage near watercourses by ambushing flocks of smaller drinking birds (Menkhorst <i>et al.</i> 2019).</p> <p>Suitable foraging habitat in the Survey Area may include:</p> <ul style="list-style-type: none"><li>• Minor Drainage Line</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p><b>Possible</b></p> <p>The Survey Area contains suitable habitat for the species and the Survey Area is within the species habitat range. The species has been recorded in two locations, 35 km northwest on the coastline in 2017 and 11 km west of the Survey Area in 2012 (BirdLife Australia 2023). Consequently, the species was assessed as possible to occur.</p>                                                                                                                                                                                                                                                                                                                                                         |
| <p>Southern Whiteface</p> <p>(<i>Aphelocephala leucopsis</i>)</p> | -          | Vulnerable | <p>The main threats to the species are: habitat loss and degradation (Garnett and Baker 2022), climate change increasing frequency of droughts (Evans <i>et al.</i> 2017).</p> <p>Reason for listing: Estimated 30-50% decline in population every ten years since 1999, with no indication that declines are slowing (Garnett and Baker 2022).</p>                                                                       | <p>Inhabits sparsely treed woodlands and shrublands dominated by acacias or eucalypts with an understorey of grasses and shrubs. Considered sedentary though individuals may disperse to wetter areas outside their normal range during periods of low rainfall. They forage almost exclusively on the ground, feeding on invertebrates and seeds (Antos and Bennett 2006; Higgins and Peter 2002).</p> <p>Critical habitat comprises essential foraging habitat, essential roosting and nesting habitat. Supporting habitat is defined as foraging habitat for this species.</p> <p>Habitat critical to the survival of the species (DCCEEW 2023b) in the Survey Area may include:</p> <ul style="list-style-type: none"><li>• Diverse Shrubland and Heath</li><li>• Shrubland on Lateritic Ridge/Outcrop</li><li>• Low Eucalypt Woodland</li></ul>                                    | <p><b>Possible</b></p> <p>The Survey Area occurs within the species known habitat and contains potentially suitable habitat. The species has been recorded 32 km northeast of the Survey Area in 2002 (BirdLife Australia 2023) and 20km southwest of the Survey Area in 2021 (ALA 2023). The species was assessed as possible to occur.</p>                                                                                                                                                                                                                                                                                                                                                                                        |

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|                                               |                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                         | <ul style="list-style-type: none"><li>Open Woodland on Farmland</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Peregrine Falcon<br><i>(Falco peregrinus)</i> | Other Specially Protected | -         | The major threat to the species is habitat loss, particularly wooded areas which serve as nesting sites to the species in the absence of cliffs (DAWE 2020).                                                                                                                                                                                                                                                            | <p>The species is found in most habitats from rainforests to arid zones, from the coast to alpine areas. The species prefer coastal and inland cliffs or open woodlands near water (BirdLife Australia 2023). The species occurs in habitats supporting nest sites, preferentially cliff-faces however also uses raptor stick nests (Menkhorst <i>et al.</i> 2019).</p> <p>Suitable foraging and breeding habitat in the Survey Area may include:</p> <ul style="list-style-type: none"><li>Open Woodland on Farmland</li><li>Shrubland on Lateritic Ridge/Outcrop</li><li>Minor Drainage Line</li><li>Cleared (paddock/crop/infrastructure).</li></ul>                                                                                                                                                      | <p><b>Confirmed</b></p> <p>The species was observed opportunistically in the Survey Area near the north-eastern boundary during the Q4 2024 BBUS. The species was foraging over Cleared (paddock/crop/infrastructure) habitat. Additionally, the species was observed during the survey outside Three Springs, within 20 km of the Survey Area.</p> <p>The Survey Area contains suitable habitat for the species and the Survey Area is within the species habitat range. The species has been recorded 6 times between 2002 and 2015 11 km to the west of the Survey Area and once in 2011, 5 km east of the Survey Area (BirdLife Australia 2023). The most recent desktop record was in 2021 in Lesueur National Park 37 km south of the Survey Area (ALA 2023).</p> |
| Fork-tailed Swift<br><i>(Apus pacificus)</i>  | Migratory                 | Migratory | Species migrates between Australia and much of Asia. Therefore, protected under international agreements CAMBA, JAMBA and ROKAMBA. There are no significant threats to the Fork-tailed Swift in Australia. Potential threats include habitat destruction and predation by feral animals (DCCEEW 2023a).                                                                                                                 | <p>Aerial species, which forages high above the tree canopy and rarely lower (Menkhorst <i>et al.</i> 2019). Forage in high-flying flocks over a wide range of habitats, however, may be more abundant over inland plains (Menkhorst <i>et al.</i> 2019). The species tends to arrive in Australia between October and November, with numbers peaking in late summer, and migrate north in April (Menkhorst <i>et al.</i> 2019). Species is occasionally observed during winter (Menkhorst <i>et al.</i> 2019).</p> <p>Breeding habitat in the Survey Area may include:</p> <ul style="list-style-type: none"><li>None in Australia</li></ul> <p>Foraging habitat in the Survey Area may include:</p> <ul style="list-style-type: none"><li>Aerial forager, no specific habitat in the Survey Area</li></ul> | <p><b>Likely</b></p> <p>This is a non-breeding visitor to Australia, is exclusively an aerial forager and has a large foraging range (Menkhorst <i>et al.</i> 2019). The Survey Area occurs within the species known range and the species was recorded in two locations within 30 km of the Survey area in 2019 (DBCA 2023a) and 7 km north of the Survey Area (date not recorded) (BirdLife Australia 2023). This species is likely to pass through the Survey Area.</p>                                                                                                                                                                                                                                                                                              |
| Grey Wagtail<br><i>(Motacilla cinerea)</i>    | Migratory                 | Migratory | Grey Wagtails are listed as rare vagrants of the Australian continent from the north. They inhabit areas associated with water including fast running water/streams, sewage ponds, swamp margins and saltmarshes and lawns, ploughed fields, paddocks, and airfields (Menkhorst <i>et al.</i> 2019). They forage on the ground and feed on insects (Johnstone and Storr 2004). the species does not breed in Australia. | <p>This species occurs near fast-flowing water (Menkhorst <i>et al.</i> 2019).</p> <p>Foraging habitat in the Survey Area may include:</p> <ul style="list-style-type: none"><li>Minor Drainage Line</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p><b>Unlikely</b></p> <p>The species has not been recorded in the Survey Area or surrounds and the Survey Area occurs outside the species range and does not contain suitable habitat. Consequently, the species was assessed as unlikely to occur.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Osprey<br><i>(Pandion haliaetus)</i>          | Migratory                 | Migratory | Loss, degradation or alteration of habitat for urban or tourism development (DoE 2015).                                                                                                                                                                                                                                                                                                                                 | <p>Inhabits most types of habitats except closed forests, including coastal areas, near coastal area water bodies and along inland river systems (Menkhorst <i>et al.</i> 2019). Hunts fish and perches in exposed lookout areas (Menkhorst <i>et al.</i> 2019).</p> <p>Suitable habitat in the Survey Area may include:</p> <ul style="list-style-type: none"><li>Minor Drainage Line</li><li>Farm Dams</li></ul>                                                                                                                                                                                                                                                                                                                                                                                           | <p><b>Unlikely</b></p> <p>The species has not been recorded in the Survey Area or surrounds (DBCA 2023a) and the Survey Area occurs outside of the species range (largely restricted to the coast) and does not contain suitable habitat. Consequently, the species was assessed as unlikely to occur.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Glossy Ibis<br><i>(Plegadis falcinellus)</i>  | Migratory                 | Migratory | Destruction or degradation of wetlands through water diversion and drainage, irrigation, and hydroelectric power production (DoE 2015).                                                                                                                                                                                                                                                                                 | <p>Forages in shallow freshwater areas but may also forage in estuaries or dry grasslands (Menkhorst <i>et al.</i> 2019). Roosts in trees surrounding water (Menkhorst <i>et al.</i> 2019).</p> <p>Suitable habitat in the Survey Area may include:</p> <ul style="list-style-type: none"><li>Wetland</li><li>Farm Dams</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p><b>Possible</b></p> <p>The Survey Area contains potentially suitable habitat where shallow freshwater and dry grasslands occur. The Survey Area occurs within the species known range and a recent sighting was recorded 20 km away in 2018 south of Lake Indoon (BirdLife Australia 2023). Therefore, the</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|                                                               |            |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | species has a possibility of occurring within the Survey Area.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Eastern Cattle Egret<br><i>(Bubulcus ibis)</i>                | -          | Migratory  | The major threats facing cattle egrets are persecution of large colonies in urban areas, loss of breeding habitats through wetland degradation and destruction and predation from feral cats (DCCEEW 2023a).                                                                                                                                                                                                                                                                                                                                                                         | <p>The species occurs in tropical and temperate grasslands, wooded lands and terrestrial wetlands. Large numbers have been recorded within low-lying poorly drained pastures with an abundance of high grass. The species are commonly associated with livestock and earth-moving machinery whilst actively foraging (Menkhorst <i>et al.</i> 2019). The species are also known to use shallow, open and fresh wetlands including meadows and swamps with low emergent vegetation (DCCEEW 2023a).</p> <p>Suitable habitat in the Survey Area may include:</p> <ul style="list-style-type: none"><li>• Wetland</li><li>• Cleared land (particularly paddocks)</li></ul>                                             | <b>Possible</b><br><br>The Survey Area is within the species habitat range. The Survey Area may contain suitable habitat with the presence of farm dams, wetlands, pasture and cropland. There are three historical records from 25-30 km east of the Survey Area (ALA 2023). The most recent record recorded in 2021 is located 117 km south of the Survey Area (ALA 2023).                                                                                                                                                                           |
| Letter-winged Kite<br><i>(Elanus scriptus)</i>                | Priority 4 | -          | A threat to this species is competition with introduced predators including foxes and feral cats (Woinarski and Legge 2013).                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>The Letter-winged Kite occupies open country and grasslands of arid and semi-arid Australia, where there are tree-lined streams or watercourses. When food is plentiful the species is known to disperse to higher rainfall coastal regions. The species is known to roost communally in leafy trees and hunts predominantly at night (Menkhorst <i>et al.</i> 2019).</p> <p>Suitable habitat in the Survey Area may include:</p> <ul style="list-style-type: none"><li>• Minor Drainage Line</li><li>• Diverse Shrubland and Heath</li></ul>                                                                                                                                                                   | <b>Unlikely</b><br><br>The Survey Area contains suitable habitat for the species but is outside the species' usual range. The species has been recorded (date not disclosed) in the surrounding area and once within 7 km north of the Survey Area (BirdLife Australia 2023) although there is the potential for misidentification of the similar Black-shouldered Kite. The species is irruptive and may occasionally spread beyond its usual range in response to rodent plagues (Menkhorst <i>et al.</i> 2019) but is considered unlikely to occur. |
| Blue-billed Duck<br><i>(Oxyura australis)</i>                 | Priority 4 | -          | <p>Threats include:</p> <ul style="list-style-type: none"><li>• Destruction or degradation of breeding habitat through drainage, flood mitigation works and ground water extraction; and</li><li>• Clearing and over grazing (OEH 2020).</li></ul>                                                                                                                                                                                                                                                                                                                                   | <p>Prefers deep water in large permanent wetlands and swamps with dense aquatic vegetation (Menkhorst <i>et al.</i> 2019). Partly migratory, with short-distance movements between breeding swamps, and overwintering lakes (OEH 2020).</p> <p>Suitable habitat in the Survey Area may include:</p> <ul style="list-style-type: none"><li>• Wetland</li><li>• Farm Dams</li></ul>                                                                                                                                                                                                                                                                                                                                  | <b>Likely</b><br><br>The Survey Area contains potentially suitable habitat where watercourses with aquatic vegetations are present. The Survey Area occurs within the species known range. Historical records (1992 to 2003) of the species occur 27 km south-west of the Survey Area at Lake Logue and Lake Indoon (BirdLife Australia 2023). The most recent record in 2021 was recorded was recorded at Lake Indoon (20 km) (ALA 2023).                                                                                                             |
| <b>Reptilia</b>                                               |            |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Western Spiny-tailed Skink<br><i>(Egernia stokesii badia)</i> | Vulnerable | Endangered | <p>Threats to the species include:</p> <ul style="list-style-type: none"><li>• Clearing for agriculture, grazing and crop production;</li><li>• Introduction of vertebrate predators;</li><li>• Removal of available refugia, or the destruction or degradation of habitat or potential habitat;</li><li>• Decrease in the connectivity of remnant woodland;</li><li>• Removal of timber from woodland habitats;</li><li>• Increased grazing, compaction, or salinity within identified or potential habitat; and</li><li>• Prescribed fire or arson in woodland remnants.</li></ul> | <p>Western Spiny-tailed Skink is known to occur in a broad semi-arid area in south-west WA, much of which is now known as the wheatbelt. The species has been recorded in York Gum (<i>Eucalyptus loxophleba</i>), Gimlet (<i>E. salubris</i>) and Salmon Gum (<i>E. salmonopholia</i>) woodland. They are known to persist in one-hectare woodland patches completely surrounded by wheatfields. Crucial habitat will contain hollow logs and wood stockpiles to use as refugia.</p> <p>Suitable habitat in the Survey Area (Pearson 2012) may include:</p> <ul style="list-style-type: none"><li>• Low Eucalypt Woodland</li><li>• Shrubland on Lateritic Ridge/Outcrop</li><li>• River Red Gum Forest</li></ul> | <b>Likely</b><br><br>The Survey Area contains suitable habitat and occurs within the species range. The species has been recorded on 5 occasions from 1 km to 32 km of the Survey Area (east and west) from the year 1945 to 2014 (DBCA 2023a). The species is considered likely to occur.                                                                                                                                                                                                                                                             |
| Woma Python                                                   | Priority 1 | -          | The major threat is clearing of habitat for agricultural development and grazing. Fox                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Occurs primarily in arid environments, including open myrtaceous heath on sandplains, and spinifex dunes (DEC 2012b).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Unlikely</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|                                                                    |            |            |                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------------------------|------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ( <i>Aspidites ramsayi</i> )                                       |            |            | predation is a possible threatening process (DEC 2012b).                                                                                                                                                                                                                                                                                                        | Suitable habitat in the Survey Area may include: <ul style="list-style-type: none"><li>Diverse Shrubland and Heath</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | The most recent record within 50 km of the Survey Area is from 1981. The Survey Area occurs outside in the species' marginal range (Wilson and Swan 2021) and does not contain suitable habitat. As such the species is considered unlikely to occur.                                                                                                                                     |
| Black-striped Snake<br>( <i>Neelaps calonotos</i> )                | Priority 3 | -          | Threatened by increasing development within its restricted distribution (Wilson and Swan 2021).                                                                                                                                                                                                                                                                 | Occurs on dunes and sand plains vegetated with heaths and eucalypt/banksia woodlands (Wilson and Swan 2021). Restricted to sandy coastal strip between Mundurah and Cataby, with isolated population near Eneabba and Dongara.<br><br>Suitable habitat in the Survey Area may include: <ul style="list-style-type: none"><li>Diverse Shrubland and Heath</li></ul>                                                                                                                                                                                                                                                                                                                                                                                      | <b>Possible</b><br><br>The survey Area may contain suitable habitat for the species with the presence of sand plains and eucalypt/banksia woodlands. The species has been recorded in 2007, 33km north and 20 km south of the Survey Area (Wilson and Swan 2021). Consequently, the species was assessed as possible to occur.                                                            |
| Invertebrates                                                      |            |            |                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                           |
| Shield-backed Trapdoor Spider<br>( <i>Idiosoma nigrum</i> )        | -          | Vulnerable | Threats to this species include: <ul style="list-style-type: none"><li>Secondary salinisation;</li><li>Grazing from livestock;</li><li>Fragmentation and clearing of vegetation;</li><li>Vibrations associated with vehicles and exploration drilling;</li><li>Inappropriate fires; and</li><li>Lack of litter management in reserves (DCCEEW 2023a).</li></ul> | The Shield-backed Trapdoor Spider is located in the Wheatbelt and the coastal Midwest, typically in clay soils and rocky habitats. In the wheatbelt, the species is associated with eucalypt woodland and acacia shrubland and in the Midwest they are associated with acacia shrubland. Leaf litter and twigs are important to the species as it provides materials for burrows, reduces soil moisture and increases prey availability. The species is an opportunistic feeder and feeds on ants, beetles, cockroaches, millipedes and moths (DCCEEW 2023a).<br><br>Suitable habitat (DEE 2013) within the Survey Area may include: <ul style="list-style-type: none"><li>Shrubland on Lateritic Ridge/Outcrop</li><li>Low Eucalypt Woodland</li></ul> | <b>Unlikely</b><br><br>The Survey Area may contain suitable habitat for the species with the presence of eucalypt woodland and acacia shrubland, however there are no recent records in the Survey Area or surrounds. The species was recorded 7 km south-west of the Survey Area in Eneabba in 1897 (Wilson and Swan 2021). Consequently, the species was assessed as unlikely to occur. |
| Heath Shield-backed Trapdoor Spider<br>( <i>Idiosoma kwongan</i> ) | Priority 1 | -          | Unknown                                                                                                                                                                                                                                                                                                                                                         | This species is poorly known, with a restricted distribution in the southern Geraldton Sandplains bioregion of south-western Western Australia.<br><br>Unlike many SRE taxa, the distributions of mygalomorph spiders are not necessarily limited by their reliance on mesic microhabitats, as they may be adapted to arid habitats by burrow modification (Main 1982). The previous records in Eneabba are from the townsite, apparently in cleared habitat (DBCA 2023a). A range of arid and mesic habitats may therefore support this species.                                                                                                                                                                                                       | <b>Likely</b><br><br>The Survey Area is likely to contain suitable habitat and occurs within the species' restricted distribution. The species has 2 historical records in 1987 from Eneabba, 17 km south-west of the Survey Area (DBCA 2023a). Preserved specimens were collected and recorded in 2021 and 2022, 17 km to 31 km northwest of the Survey Area.                            |
| <i>Bothriembryon perobesus</i><br>(Terrestrial Snail)              | Priority 1 | -          | Unknown                                                                                                                                                                                                                                                                                                                                                         | This Terrestrial Snail species is poorly known but has been collected in Banksia woodlands and low shrubland with sandy soils in proximity to the Survey Area (WAM 2023a).<br><br>Suitable habitat within the Survey Area may include: <ul style="list-style-type: none"><li>Diverse Shrubland and Heath</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Likely</b><br><br>There are 50 records of the species within ~100km of the Survey Area (WAM 2023a) and the closest record is 8.41 km away. The species is considered likely to occur.                                                                                                                                                                                                  |
| Thorny Bush Katydid<br>( <i>Hemisaga vepreculae</i> )              | Priority 2 | -          | Unknown                                                                                                                                                                                                                                                                                                                                                         | This species is poorly known but has been collected in low shrubland with sandy soils in proximity to the Survey Area (DBCA 2023a).<br><br>Suitable habitat within the Survey Area may include: <ul style="list-style-type: none"><li>Diverse Shrubland and Heath</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Unlikely</b><br><br>There is one record of the species 14 km west of the Survey Area, from 1980 (DBCA 2023a). There are no other records within 50 km. The species is considered unlikely to occur.                                                                                                                                                                                    |
| Woolybush Bee<br>( <i>Hylaeus globuliferus</i> )                   | Priority 3 | -          | Unknown                                                                                                                                                                                                                                                                                                                                                         | This native bee species that has a distribution from north of Eneabba through to the southern Wheatbelt and south along the coast to the Fitzgerald National Park. The species is known to be associated with <i>Adenanthos cygnorum</i> and <i>Banksia attenuata</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Possible</b><br><br>The Survey Area contains suitable habitat for the species and the Survey Area is within the species known                                                                                                                                                                                                                                                          |



|                                                                   |            |   |                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------|------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                   |            |   |                                                                                                                                                                                                                                                          | <p>along with other native plants. Within proximity to the Survey Area, the species has been collected in low shrubland with sandy soils (DBCA 2023a).</p> <p>Suitable habitat within the Survey Area may include:</p> <ul style="list-style-type: none"><li>• Diverse Shrubland and Heath</li></ul> | <p>distribution range. The species has two historical records from 1996, 13 km west and 14 km east km of the Survey Area (DBCA 2023a). As such, the species has the possibility to occur.</p>                                                                                                                                                                                  |
| Springtime Corroboree Stick Katydid<br>( <i>Phasmodes jeeba</i> ) | Priority 3 | - | Unknown                                                                                                                                                                                                                                                  | <p>This species is poorly known but has been collected in low shrubland with sandy soils in proximity to the Survey Area (DBCA 2023a).</p> <p>Suitable habitat within the Survey Area may include:</p> <ul style="list-style-type: none"><li>• Diverse Shrubland and Heath</li></ul>                 | <p><b>Unlikely</b></p> <p>There species has been recorded 31 km north-west and 38 km south-west of the Survey Area, from 1984 (DBCA 2023a). There are no other records within 50 km. The species is considered unlikely to occur.</p>                                                                                                                                          |
| Graceful Sunmoth<br>( <i>Synemon gratiosa</i> )                   | Priority 4 | - | <p>Threats to this species include:</p> <ul style="list-style-type: none"><li>• Track maintenance and use;</li><li>• Inappropriate fire regimes; and</li><li>• Damage to habitat caused by recreational four-wheel drive vehicles (TSSC 2013).</li></ul> | <p>The species is known from open herbland, heathland and shrubland, generally south of the Perth Metropolitan Area (TSSC 2013)</p> <p>Suitable habitat within the Survey Area may include:</p> <ul style="list-style-type: none"><li>• Diverse Shrubland and Heath</li></ul>                        | <p><b>Unlikely</b></p> <p>The species has been recorded 18 times approximately 34 km south-west of the Survey Area in 2010 and 2011 (DBCA 2023a). This grouping of records are the only known records within 50 km of the Survey Area, are confined to dune systems on the coast and are outside the species' usual range (TSSC 2013). It is considered unlikely to occur.</p> |



### 5.3.2 Carnaby's Black-Cockatoo

Carnaby's Black-Cockatoo has been recorded within the Survey Area and surrounds on the following occasions (**Figure 5-2**):

- Two individuals observed flying over the Additional Area during the Q4 2024 BBUS (Stantec 2024);
- An estimated total 400 individuals were observed during the Q2 2024 BBUS (Stantec 2024) (**Plate 5-1**). The largest flock observed during this period was of 380 individuals, and due to the flock being observed in similar locations close to dawn and dusk it is assumed that the majority of observations were of individuals from this group, with approximately 400 Carnaby's Black-Cockatoos utilising the Survey Area and surrounds during the Q2 2024 BBUS. This observation reflects existing research that a flock of 300 to 400 individuals are present in the Eneabba region throughout the year, as opposed to migrating to the Swan Coastal Plain (Johnstone and Johnstone 2024);
- 22 individuals observed flying over the Survey Area during the Q1 2024 BBUS (Stantec 2024);
- An estimated total 105 individuals were observed within the Survey Area and surrounds during the Q3 2024 BBUS (Stantec 2024);
- A flock of approximately 30 individuals was observed twice during the flora surveys (Stantec 2023), near the intersections of Kangaroo Rd and First North Rd, and Kangaroo Rd and Eneabba-Three Springs Rd;
- Three individuals were observed 7.5 km south of the Survey area in White Gums Nature Reserve during the fauna site inspection; and
- Thirteen individuals were recorded in the Additional Area in 2012, during targeted fauna searches for the Carnaby's Black-Cockatoo by ENV Australia (2013).

#### 5.3.2.1 Foraging Habitat

Foraging scores for habitats within the Survey Area are presented in **Table 5-4** and **Figure 5-2**. A total of 2,273.00 ha of the Survey Area is high-quality foraging habitat for Carnaby's Black-Cockatoo. Within the Survey Area, Carnaby's Black-Cockatoos were observed foraging on species including *Banksia* spp. (**Plate 5-1**) and *Callitris arenaria* in Diverse Shrubland and Heath, and three individuals were observed feeding on introduced *Pinus radiata* cones beside a homestead. In White Gums Nature Reserve, approximately 2 km outside the Survey Area, Carnaby's Black-Cockatoos were observed foraging on *Allocasuarina campestris* and *Banksia* sp. in Shrubland on Lateritic Ridge/Outcrop (**Plate 5-2**).

Foraging habitat scores on the Adjacent Land Parcel are discussed in **Appendix F**.





**Plate 5-1: A flock of Carnaby's Black-Cockatoos observed foraging on *Banksia* sp. during the Q2 2024 BBUS, travelling north from nature reserve R 48098 to R 12705 along First North Rd.**

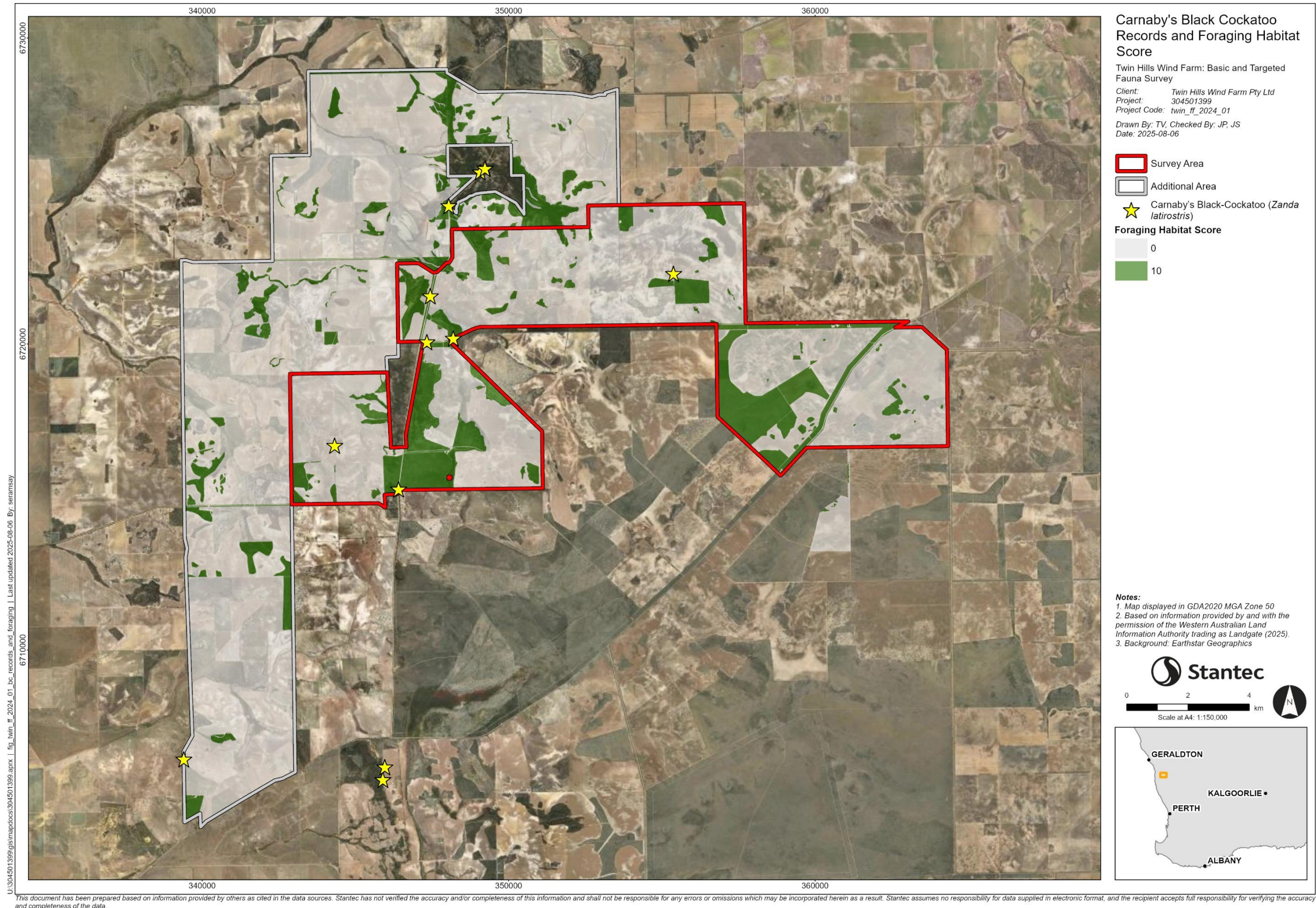


**Plate 5-2: Adults (left) and juvenile (right) Carnaby's Black-Cockatoos observed outside the Survey Area (White Gums Nature Reserve) during the fauna site inspection.**

**Table 5-4: Carnaby's Black-Cockatoo foraging scores by habitat type.**

| Foraging habitat scoring tool steps (DAWE 2022a)                                                                                                                                                                                                                                                                        | Fauna habitat               |                           |                       |                                      |           |                     |                                             |                                          | Comment                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------|-----------------------|--------------------------------------|-----------|---------------------|---------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                         | Diverse Shrubland and Heath | Open Woodland on Farmland | Low Eucalypt Woodland | Shrubland on Lateritic Ridge/Outcrop | Wetland   | Minor Drainage Line | River Red Gum Forest (Additional Area only) | Cleared (Paddock / crop / infrastructure |                                                                                   |
| Start at a score of 10 if your site is native shrubland, kwongan heathland or woodland, dominated by proteaceous plant species such as <i>Banksia</i> spp. (including <i>Dryandra</i> spp.), <i>Hakea</i> spp. and <i>Grevillea</i> spp., as well as native eucalypt woodland and forest that contains foraging species | 10                          | 0                         | 10                    | 10                                   | 10        | 0                   | 0                                           | 0                                        |                                                                                   |
| Subtract 2 from your score if there is no evidence of feeding debris on your site                                                                                                                                                                                                                                       | -                           | -                         | -                     | -                                    | -         | -                   | -                                           | -                                        | Feeding observed within the Survey Area. No change to scores                      |
| Subtract 2 from your score if you have evidence to conclude that there is no other foraging habitat within 12 km of your site                                                                                                                                                                                           | -                           | -                         | -                     | -                                    | -         | -                   | -                                           | -                                        | Foraging habitat widespread within the region. No change to scores                |
| Subtract 2 if you have evidence to conclude that your site is more than 12 km from breeding habitat                                                                                                                                                                                                                     | -                           | -                         | -                     | -                                    | -         | -                   | -                                           | -                                        | Breeding habitat present within 12 km. No change to scores                        |
| Subtract 1 if you have evidence to conclude that your site is more than 20 km from a known night roosting habitat                                                                                                                                                                                                       | -                           | -                         | -                     | -                                    | -         | -                   | -                                           | -                                        | Night roost present within 12 km. No change to scores                             |
| Subtract 1 if your site has disease present (e.g. <i>Phytophthora</i> spp. or Marri canker) and the disease is affecting more than 50% of the preferred food plants present                                                                                                                                             | -                           | -                         | -                     | -                                    | -         | -                   | -                                           | -                                        | Disease not affecting more than 50% of preferred food plants. No change to scores |
| <b>Final score</b>                                                                                                                                                                                                                                                                                                      | <b>10</b>                   | <b>0</b>                  | <b>10</b>             | <b>10</b>                            | <b>10</b> | <b>0</b>            | <b>0</b>                                    | <b>0</b>                                 |                                                                                   |





**Figure 5-2: Foraging scores and Black-Cockatoo records within and adjacent to the Survey Area.**

#### 5.3.2.2 Roosting Trees

No Carnaby's Black-Cockatoo roosts were identified within the Survey Area. One roost was confirmed during the Survey, located within nature reserve R 12705 approximately 2 km north of the Survey Area (**Plate 5-3**; **Figure 5-3**). On 26 May 2024 between 5pm and 6pm, 274 Carnaby's Black-Cockatoos were observed moving between low trees throughout nature reserve R 12705, before moving to a grove of relatively taller (~20 m) River Red Gum and *Melaleuca* sp. trees above a spring. The tops of the River Red Gum trees in this grove were defoliated. This roost location had not previously been recorded according to desktop database searches (BirdLife Australia 2023; DBCA 2023a).



**Plate 5-3: Carnaby's Black-Cockatoos observed during the Q2 2024 BBUS, flocking prior to roosting in *Eucalyptus camaldulensis* trees in nature reserve R 12705.**

### 5.3.2.3 Breeding Trees

Within the Survey Area, 336 suitable breeding trees and an estimated 896 potential breeding trees were recorded using the methods described in **Section 4.4.3 (Table 5-5; Figure 5-3)**. No confirmed breeding trees were identified. In addition to the trees recorded within the Survey Area, 615 suitable and an estimated 1,795 potential breeding trees were recorded in the Additional Area; and 45 suitable and 173 potential breeding trees were recorded in adjacent Nature Reserves and road reserves.

The majority of suitable (trees with suitable hollows present, but no evidence of use by listed Black-Cockatoo species) and potential breeding trees (trees of a suitable size to form hollows, but with no suitable hollows) were Powderbark Wandoo. Although no Carnaby's Black-Cockatoos have been observed breeding or nesting in the Survey Area, Red-tailed Black-Cockatoos (*Calyptorhynchus banksii samueli*) were observed utilising two very low, exposed hollows in a dead Powderbark Wandoo approximately 3 m above the ground (**Plate 5-4**). Other potential and suitable trees identified in the Survey Area and surrounds are River Red Gums (*E. camaldulensis*), York Gum (*E. loxophleba*) and Tuart (*E. gomphocephala*).

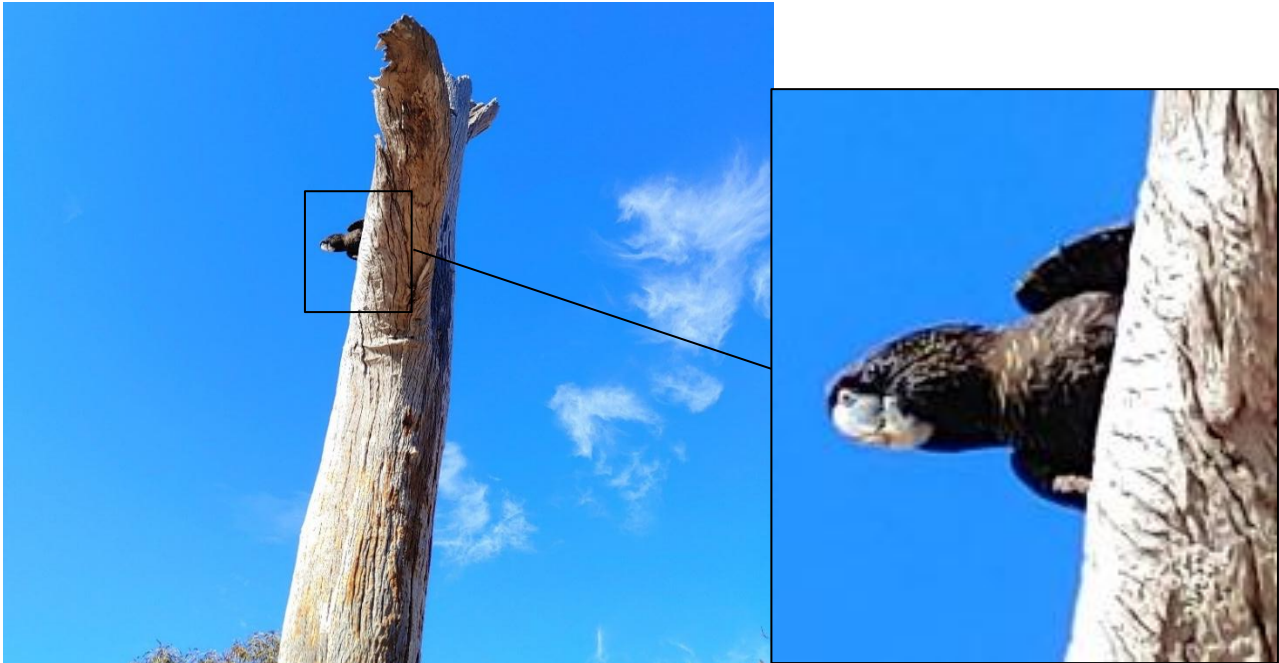
A table of all Black-Cockatoo tree assessments for the Survey Area is presented in **Appendix E**.

Breeding trees on the Adjacent Land Parcel are discussed in **Appendix F**.

**Table 5-5: Counts of potential and suitable breeding trees recorded.**

| Breeding Tree Category   | Survey Area                |                                 |                              |            | Additional Area            |                                 |                              |                                 |              | Nature and Road Reserves   |                                 |                              |            | Total        |
|--------------------------|----------------------------|---------------------------------|------------------------------|------------|----------------------------|---------------------------------|------------------------------|---------------------------------|--------------|----------------------------|---------------------------------|------------------------------|------------|--------------|
|                          | <i>Eucalyptus accedens</i> | <i>Eucalyptus camaldulensis</i> | <i>Eucalyptus loxophleba</i> | Subtotal   | <i>Eucalyptus accedens</i> | <i>Eucalyptus camaldulensis</i> | <i>Eucalyptus loxophleba</i> | <i>Eucalyptus gomphocephala</i> | Subtotal     | <i>Eucalyptus accedens</i> | <i>Eucalyptus camaldulensis</i> | <i>Eucalyptus loxophleba</i> | Subtotal   |              |
| Potential Breeding Trees | 734                        | 140                             | 22                           | <b>896</b> | 865                        | 900                             | 26                           | 4                               | <b>1,795</b> | 27                         | 133                             | 13                           | <b>173</b> | <b>2,864</b> |
| Suitable Breeding Trees  | 329                        | 7                               | 0                            | <b>336</b> | 459                        | 155                             | 0                            | 1                               | <b>615</b>   | 10                         | 32                              | 3                            | <b>45</b>  | <b>996</b>   |
| Confirmed Breeding Trees | 0                          | 0                               | 0                            | <b>0</b>   | 0                          | 0                               | 0                            | 0                               | <b>0</b>     | 0                          | 0                               | 0                            | <b>0</b>   | <b>0</b>     |





**Plate 5-4: Red-tailed Black-Cockatoo subspecies *samueli* observed emerging from a hollow in dead *Eucalyptus accedens* during the Q2 2024 BBUS.**

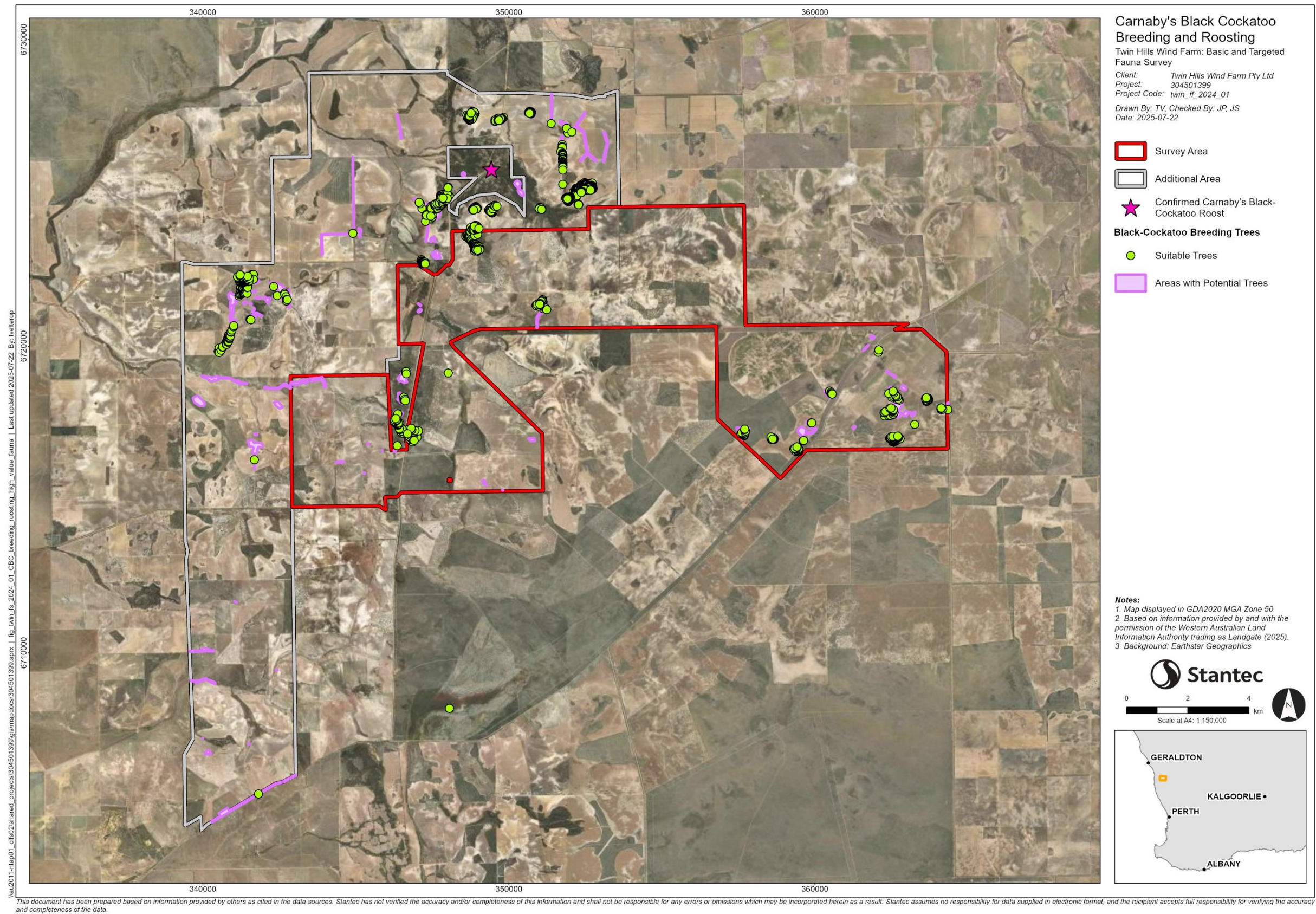


Figure 5-3: Carnaby's Black-Cockatoo breeding and roosting habitat within and adjacent to the Survey Area.

### 5.3.3 Peregrine Falcon

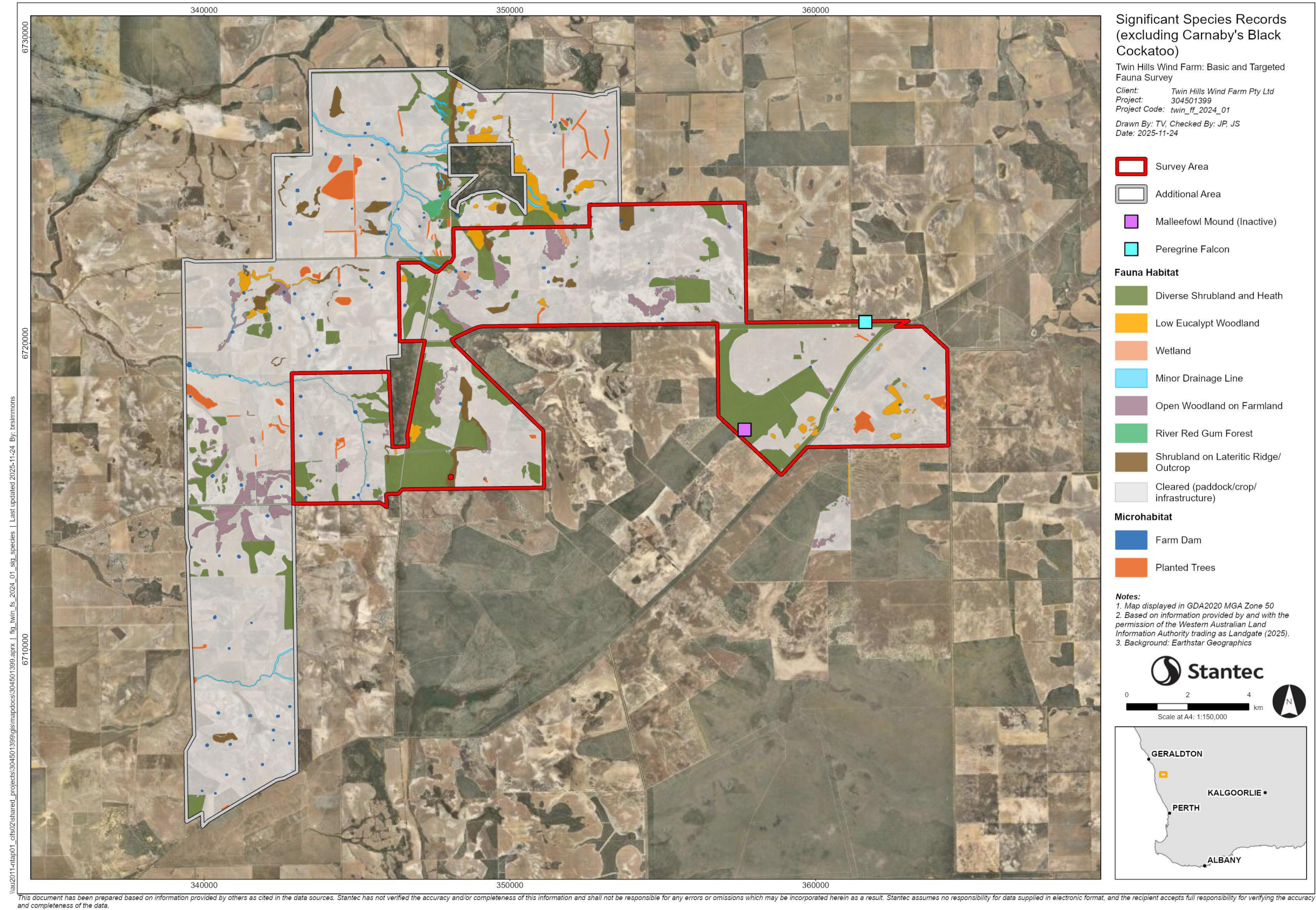
The Peregrine Falcon is listed as “other taxa in need of special protection” under the BC Act. The Peregrine Falcon is a powerful aerial hunter that inhabits most environments with suitable nest sites across Australia, with a preference for cliff faces (Menkhorst *et al.* 2019). Occurring across a range of habitats from woodlands to open grasslands and coastal cliffs, it hunts and feeds predominantly on other birds, but is also known to prey on rabbits and other moderate-sized mammals, bats and reptiles (DEE 2016). One Peregrine Falcon was observed foraging within the Survey Area during the Q4 2024 BBUS. The species was observed opportunistically near the north-eastern boundary of the Survey Area.

### 5.3.4 Malleefowl

One Malleefowl mound was recorded within the Survey Area during the Q2 2024 BBUS (**Plate 5-5; Figure 5-4**). The mound was approximately 2.5 m x 1 m, with a flat profile and no evidence of recent use, and is therefore classified as a “long unused” mound (National Malleefowl Recovery Team 2020). Small pieces of eggshell and a thin layer of incubating material were present. Based on the age of the mound, the lack of other mounds/activity within the Survey Area, and the activity of foxes and cats in the vicinity, the species likelihood within the Survey Area remains “possible”.



**Plate 5-5: Long unused Malleefowl mound within the Survey Area.**



**Figure 5-4: Significant Species Records (excluding Carnaby's Black Cockatoo).**

## 6. Limitations and Constraints

**Table 6-1: Limitations and constraints of the assessment.**

| Factor                                        | Constraint | Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Competency and experience of consultants      | No         | Joseph Sollis, an experienced zoologist with eight years' experience, was the technical lead. Joseph was supported by Melissa Jensen (15 years' experience) and Katelyn Gibson (seven years' experience). Refer to <b>Section 4.1</b> for details of the survey teams for specific survey events. All team members are competent zoologists.                                                                                                                                                                                                     |
| Scope                                         | No         | All targeted fauna groups were surveyed using standardised and well-established techniques, and available previous survey work in the vicinity of the Survey Area was reviewed.                                                                                                                                                                                                                                                                                                                                                                  |
| Proportion of species identified              | No         | A total of 137 terrestrial fauna species were recorded in the Survey Area and Additional Area, representing 41.02 % of the 334 species identified in the desktop assessment. Most taxonomic groups expected within the Survey Area were represented. The species richness for each faunal group was significantly higher than that recorded in previous surveys the vicinity, likely due to the total time spent surveying being considerably longer ( <b>Section 3.2.3</b> ).                                                                   |
| Information sources (e.g. historic or recent) | No         | The Survey Area had been previously surveyed, and although the survey effort within the Survey Area was limited, data from databases and other surveys within 30 km of the Survey Area and surrounds provided additional contextual information ( <b>Section 3.2.3</b> ).                                                                                                                                                                                                                                                                        |
| Completeness and intensity                    | No         | Targeted survey methods were implemented for all significant species confirmed or likely to occur within the Survey Area. All remnant vegetation within the Survey Area was inspected, and where suitable for significant species was traversed on foot. All eucalypts of species that may form hollows were visited on foot to assess suitability for Carnaby's Black-Cockatoo (these targeted searches also covered all habitat suitable for the Western Spiny-tailed Skink and Malleefowl). Survey effort is summarised in <b>Table 4-5</b> . |
| Timing / weather / season / cycle             | No         | Surveys were timed to coincide with the recommended timing for targeted fauna species as prescribed by EPA (2020). Where the timing of the basic and targeted fauna was not within the ideal timing for targeted species (particularly the Black-Striped Snake), supplementary targeted survey effort was conducted during the BBUSs<br><br>However, rainfall leading up to the June survey was significantly below historical averages, leading to some specimens lacking essential identifiable floristic material.                            |
| Disturbances                                  | Minor      | Much of the fauna habitat within the Survey Area shows evidence of disturbance by sheep, weeds and feral predators. However, areas of pristine and excellent habitat remain. As the Survey Area is predominantly agricultural crop and paddock, these disturbances are expected and are considered minor limitations only.                                                                                                                                                                                                                       |
| Resources                                     | No         | Resources were adequate to carry out the Survey and the field personnel were competent in the identification of species present.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Remoteness / access problems                  | No         | Access was arranged with property owners prior to field surveys.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |



## 7. Conclusion

Twin Hills Wind Farm Pty Ltd, care of Wind Prospect Pty Ltd (Wind Prospect) commissioned Stantec Australia Pty Ltd (Stantec) to undertake a preliminary site inspection and basic and targeted fauna surveys (collectively, 'the Survey') of the Twin Hills Survey Area (the Survey Area) between October 2023 and October 2024. Species recorded and survey effort conducted during the separate bird and bat utilisation survey (BBUS) (Stantec 2024) were also included in data for this report. Habitat mapping, species records and survey effort from the Additional Area have been provided for local context. The objective of the Survey was to enhance and contextualise the level of fauna knowledge at the local scale, and to understand the presence and use of the Survey Area by significant fauna. This was achieved by conducting a comprehensive desktop assessment, targeted survey methods for significant fauna species confirmed, likely, or possible within the Survey Area, and fauna habitat mapping for the Survey Area.

The key results and conclusions are as follows:

1. The desktop assessment comprised eight database searches and a review of seven fauna surveys conducted in proximity to the Survey Area. These desktop searches identified 334 species of vertebrate fauna known or with potential to occur within the Survey Area, and 59 invertebrate taxa. Of these, 45 significant fauna species were known and/or have the potential to occur within the Survey Area. These comprised four mammal, 31 bird, three reptile and seven invertebrate species.
2. Within the Survey Area, survey effort comprised 14 habitat assessments, two microhabitat assessments, seven motion cameras (43 nights), five transects (all five in Western Spiny-tailed Skink (Vu; En) and Malleefowl habitat (Vu; Vu), 12 targeted searches for Black-striped Snake (P3), 12 significant invertebrate searches, and opportunistic records of vertebrate fauna species.
3. In total, eight broad fauna habitats were described and delineated within the Survey Area. The majority of the Survey Area was Cleared (paddock/crop /infrastructure) (7,416 ha, 74.21 %). The remaining habitats in order of extent were comprised: Diverse Shrubland and Heath (1,991 ha, 19.93 %); Open Woodland on Farmland (244 ha, 2.44 %); Low Eucalypt Woodland (142 ha, 1.42 %); Shrubland on Lateritic Ridge/Outcrop (166 ha, 1.66 ha); Wetland (22 ha, 0.22 %); and Minor Drainage Line (12 ha, 0.12 %).
4. During the Survey and BBUS, a total of 137 terrestrial fauna species were recorded comprising 10 native mammals, five introduced mammals, 113 native birds, one introduced bird, seven reptiles and one amphibian. The avifauna diversity recorded during the Survey is high compared to other surveys conducted in the region, likely due to the use of methods targeting avifauna (BBUSs).
5. Two significant species, the Carnaby's Black-Cockatoo (*Zanda latirostris*) (En; En) and Peregrine Falcon (*Falco peregrinus*) (OS) were observed within the Survey Area.
6. The Carnaby's Black Cockatoo was observed transiting and foraging within and in the vicinity of the Survey Area, and roosting in proximity to the Survey Area in flocks of up to 380 individuals. No breeding activity was observed, but 344 suitable and 876 potential breeding trees were identified in the Survey Area. Additionally, 615 suitable and 1,795 potential breeding trees were identified in the Additional Area and 37 suitable and 173 potential breeding trees were identified in nearby nature reserves (R 48098 and R 12705).
7. The Peregrine Falcon was observed foraging within the Survey Area near the north-eastern boundary.
8. One Malleefowl (*Leipoa ocellata*) (Vu; Vu) mound was recorded within the Survey Area. This mound was categorised as long unused (National Malleefowl Recovery Team 2020). The Malleefowl is considered "possible" to persist in the Survey Area.

In summary, habitat assessments and mapping resulted in the description and delineation of seven broad habitats for the Survey Area. A total of 137 terrestrial fauna species were recorded in the Survey Area and Additional Area, representing 41.02 % of the 334 species identified in the desktop assessment. Two significant vertebrate fauna species were confirmed and a further five are considered likely to occur within the Survey Area and Additional Area. A further eight significant



species were considered possible to occur within the Survey Area and Additional Area and 30 were classified as unlikely to occur on the basis of the desktop assessment. One significant species recorded, Carnaby's Black-Cockatoo, is threatened under the EPBC Act and are therefore considered a matter of national environmental significance (MNES).



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## Appendices

# Appendix A      Text Codes and Terms used to Describe Significant fauna

The Environmental Factor Guidelines for Terrestrial Fauna (EPA 2016b) states that terrestrial fauna may be significant for a range of reasons, including: being identified as a threatened or priority species: species with restricted distribution: degree of historical impact from threatening processes and providing an important function required to maintain the ecological integrity of a significant ecosystem.

Those fauna detailed as threatened and priority under the EPBC Act and/or the BC Act, or being listed on the DBCA Priority Species List. The appendix presents a summary of the different rankings and listings used to describe conservation status. Some categories such as 'extinct', 'extinct in the wild' and 'conservation dependent' (EPBC Act) are represented here. As the table includes only the information needed to fully understand the codes presented in the preceding report. Refer to the relevant legislation for a full description of all codes in use, as well as their associated criteria.

| Categories used un the EPBC Act |      |                                                                                                       |
|---------------------------------|------|-------------------------------------------------------------------------------------------------------|
| Status                          | Code | Descriptions                                                                                          |
| Critically Endangered           | Cr   | Taxa considered to be facing an extremely high risk of extinction in the wild in the immediate future |
| Endangered                      | En   | Taxa considered to be facing a very high risk extinction in the wild in the near future               |
| Vulnerable                      | Vu   | Taxa considered to be facing a high risk extinction in the wild in the medium-term future             |
| Migratory                       | Mi   | Species that migrate to, over and within Australia and its external territories                       |

| Conservation Codes used under the BC Act |      |                                                                                                 |
|------------------------------------------|------|-------------------------------------------------------------------------------------------------|
| Status                                   | Code | Description                                                                                     |
| Critically Endangered                    | Cr   | Taxa rare or likely to become extinct, as critically endangered taxa                            |
| Endangered                               | En   | Taxa rare or likely to become extinct, as endangered taxa                                       |
| Vulnerable                               | Vu   | Taxa rare or likely to become extinct, as vulnerable taxa                                       |
| Presumed Extinct                         | Ex   | Taxa presumed to be extinct                                                                     |
| Migratory                                | Mia  | Birds subject to international agreements relating to the protection of migratory birds         |
| Conservation Dependent                   | Cd   | Taxa of special conservation need, being species dependent on ongoing conservation intervention |
| Species Protection                       | Os   | Taxa in need of special protection                                                              |

## Priority Fauna Under the BC act

| Status                                                                    | Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Priority 1: Poorly-known Species                                          | P1   | Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes. Such species are in urgent need of further survey.        |
| Priority 2: Poorly-known Species                                          | P2   | Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, e.g. national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes. Such species are in urgent need of further survey.                                                                                                                      |
| Priority 3: Poorly-known Species                                          | P3   | Species that are known from several locations, and the species does not appear to be under imminent threat, or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. Such species are in need of further survey.                                                                                                                          |
| Priority 4: Rare, Near Threatened and other species in need of monitoring | P4   | <p>(a) Rare. Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These species are usually represented on conservation lands.</p> <p>(b) Near Threatened. Species that are considered to have been adequately surveyed and that are close to qualifying for Vulnerable, but are not listed as Conservation Dependent.</p> <p>(c) Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.</p> |

## Appendix B Terrestrial Fauna Recorded in the Survey Area

| Scientific Name               | Common Name                   | This Survey<br>(9 – 13 October<br>2023; 23<br>February –<br>1 March 2024) | Bird and Bat<br>Utilisation<br>Surveys<br>(Stantec 2025) |
|-------------------------------|-------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------|
| <b>Mammals</b>                |                               |                                                                           |                                                          |
| <i>Macropus fuliginosus</i>   | Western Grey Kangaroo         | ✓                                                                         | ✓                                                        |
| <i>Osphranter robustus</i>    | Euro                          | ✓                                                                         | ✓                                                        |
| <i>Tachyglossus aculeatus</i> | Short-beaked Echidna          | ✓                                                                         |                                                          |
| <i>Austronomus australis</i>  | White-striped Free-tailed Bat |                                                                           | ✓                                                        |
| <i>Ozimops kitcheneri</i>     | Northern Free-tailed Bat      |                                                                           | ✓                                                        |
| <i>Chalinolobus gouldii</i>   | Gould's Wattled Bat           |                                                                           | ✓                                                        |
| <i>Chalinolobus morio</i>     | Chocolate Wattled Bat         |                                                                           | ✓                                                        |
| <i>Nyctophilus geoffroyi</i>  | Lesser Long-eared Bat         |                                                                           | ✓                                                        |
| <i>Scotorepens balstoni</i>   | Inland Broad-nosed Bat        |                                                                           | ✓                                                        |
| <i>Vespadelus regulus</i>     | Southern Forest Bat           |                                                                           | ✓                                                        |
| <i>Rattus rattus</i>          | Black Rat (introduced)        | ✓                                                                         |                                                          |
| <i>Sus scrofa</i>             | Pig (introduced)              | ✓                                                                         |                                                          |
| <i>Felis catus</i>            | Cat (introduced)              | ✓                                                                         | ✓                                                        |
| <i>Oryctolagus cuniculus</i>  | Rabbit (introduced)           | ✓                                                                         | ✓                                                        |
| <i>Vulpes vulpes</i>          | Red Fox (introduced)          | ✓                                                                         | ✓                                                        |
| <b>Aves</b>                   |                               |                                                                           |                                                          |
| <i>Acanthiza apicalis</i>     | Inland Thornbill              | ✓                                                                         | ✓                                                        |
| <i>Acanthiza chrysorrhoa</i>  | Yellow-rumped Thornbill       | ✓                                                                         | ✓                                                        |
| <i>Acanthiza inornata</i>     | Western Thornbill             | ✓                                                                         | ✓                                                        |
| <i>Acanthiza uropygialis</i>  | Chestnut-rumped Thornbill     |                                                                           | ✓                                                        |
| <i>Calamanthus campestris</i> | Rufous Fieldwren              |                                                                           | ✓                                                        |
| <i>Calamanthus cauta</i>      | Shy Heathwren                 |                                                                           | ✓                                                        |
| <i>Gerygone fusca</i>         | Western Gerygone              | ✓                                                                         | ✓                                                        |

| Scientific Name                 | Common Name               | This Survey<br>(9 – 13 October<br>2023; 23<br>February –<br>1 March 2024) | Bird and Bat<br>Utilisation<br>Surveys<br>(Stantec 2025) |
|---------------------------------|---------------------------|---------------------------------------------------------------------------|----------------------------------------------------------|
| <i>Sericornis maculatus</i>     | Spotted Scrubwren         |                                                                           | ✓                                                        |
| <i>Sericornis frontalis</i>     | White-browed Scrubwren    |                                                                           | ✓                                                        |
| <i>Smicromnis brevirostris</i>  | Weebill                   | ✓                                                                         | ✓                                                        |
| <i>Accipiter cirrocephalus</i>  | Collared Sparrowhawk      |                                                                           |                                                          |
| <i>Accipiter fasciatus</i>      | Brown Goshawk             | ✓                                                                         | ✓                                                        |
| <i>Aquila audax</i>             | Wedge-tailed Eagle        | ✓                                                                         | ✓                                                        |
| <i>Circus assimilis</i>         | Spotted Harrier           | ✓                                                                         | ✓                                                        |
| <i>Haliastur sphenurus</i>      | Whistling Kite            |                                                                           | ✓                                                        |
| <i>Hamirostra isura</i>         | Square-tailed Kite        | ✓                                                                         |                                                          |
| <i>Hamirostra melanosternon</i> | Black-breasted Buzzard    |                                                                           | ✓                                                        |
| <i>Hieraaetus morphnoides</i>   | Little Eagle              |                                                                           | ✓                                                        |
| <i>Elanus axillaris</i>         | Black-shouldered Kite     |                                                                           | ✓                                                        |
| <i>Acrocephalus australis</i>   | Australian Reed Warbler   |                                                                           | ✓                                                        |
| <i>Aegotheles cristatus</i>     | Australian Owlet-nightjar |                                                                           | ✓                                                        |
| <i>Dacelo novaeguineae</i>      | Laughing Kookaburra       | ✓                                                                         | ✓                                                        |
| <i>Todiramphus sanctus</i>      | Sacred Kingfisher         | ✓                                                                         | ✓                                                        |
| <i>Anas gracilis</i>            | Grey Teal                 | ✓                                                                         | ✓                                                        |
| <i>Anas superciliosa</i>        | Pacific Black Duck        | ✓                                                                         | ✓                                                        |
| <i>Chenonetta jubata</i>        | Australian Wood Duck      | ✓                                                                         | ✓                                                        |
| <i>Tadorna tadornoides</i>      | Australian Shelduck       | ✓                                                                         | ✓                                                        |
| <i>Anhinga novaehollandiae</i>  | Australian Darter         |                                                                           | ✓                                                        |
| <i>Ardea alba</i>               | Great Egret               |                                                                           | ✓                                                        |
| <i>Egretta novaehollandiae</i>  | White-faced Heron         |                                                                           | ✓                                                        |
| <i>Ardea pacifica</i>           | White-necked Heron        |                                                                           | ✓                                                        |
| <i>Artamus cinereus</i>         | Black-faced Woodswallow   | ✓                                                                         | ✓                                                        |
| <i>Artamus personatus</i>       | Masked Woodswallow        |                                                                           | ✓                                                        |
| <i>Artamus superciliosus</i>    | White-browed Woodswallow  |                                                                           | ✓                                                        |
| <i>Cracticus nigrogularis</i>   | Pied Butcherbird          | ✓                                                                         | ✓                                                        |

| Scientific Name                  | Common Name                     | This Survey<br>(9 – 13 October<br>2023; 23<br>February –<br>1 March 2024) | Bird and Bat<br>Utilisation<br>Surveys<br>(Stantec 2025) |
|----------------------------------|---------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------|
| <i>Gymnorhina tibicen</i>        | Australian Magpie               | ✓                                                                         | ✓                                                        |
| <i>Cracticus torquatus</i>       | Grey Butcherbird                |                                                                           | ✓                                                        |
| <i>Burhinus grallarius</i>       | Bush Stone Curlew               |                                                                           | ✓                                                        |
| <i>Cacatua pastinator</i>        | Western Long-billed Corella     | ✓                                                                         |                                                          |
| <i>Eolophus roseicapilla</i>     | Galah                           | ✓                                                                         | ✓                                                        |
| <i>Cacatua sanguinea</i>         | Little Corella                  | ✓                                                                         | ✓                                                        |
| <b><i>Zanda latirostris</i></b>  | <b>Carnaby's Black-Cockatoo</b> |                                                                           | ✓                                                        |
| <i>Nymphicus hollandicus</i>     | Cockatiel                       |                                                                           | ✓                                                        |
| <i>Coracina maxima</i>           | Ground Cuckoo-shrike            |                                                                           | ✓                                                        |
| <i>Coracina novaehollandiae</i>  | Black-faced Cuckoo-shrike       | ✓                                                                         | ✓                                                        |
| <i>Lalage tricolor</i>           | White-winged Triller            |                                                                           | ✓                                                        |
| <i>Dromaius novaehollandiae</i>  | Emu                             | ✓                                                                         | ✓                                                        |
| <i>Charadrius melanops</i>       | Black-fronted Dotterel          | ✓                                                                         |                                                          |
| <i>Vanellus tricolor</i>         | Banded Lapwing                  |                                                                           | ✓                                                        |
| <i>Ocyphaps lophotes</i>         | Crested Pigeon                  | ✓                                                                         | ✓                                                        |
| <i>Phaps chalcoptera</i>         | Common Bronzewing               | ✓                                                                         | ✓                                                        |
| <i>Streptopelia senegalensis</i> | Laughing Dove (introduced)      |                                                                           | ✓                                                        |
| <i>Corvus bennetti</i>           | Little Crow                     |                                                                           | ✓                                                        |
| <i>Corvus coronoides</i>         | Australian Raven                | ✓                                                                         | ✓                                                        |
| <i>Cacomantis flabelliformis</i> | Fan-tailed Cuckoo               |                                                                           | ✓                                                        |
| <i>Heteroscenes pallidus</i>     | Pallid Cuckoo                   |                                                                           | ✓                                                        |
| <i>Chalcites basalus</i>         | Horsfield's Bronze-cuckoo       | ✓                                                                         | ✓                                                        |
| <i>Chalcites lucidus</i>         | Shining Bronze-cuckoo           |                                                                           | ✓                                                        |
| <i>Dicaeum hirundinaceum</i>     | Mistletoebird                   | ✓                                                                         | ✓                                                        |
| <i>Taeniopygia guttata</i>       | Zebra Finch                     | ✓                                                                         | ✓                                                        |
| <i>Falco berigora</i>            | Brown Falcon                    | ✓                                                                         | ✓                                                        |
| <i>Falco cenchroides</i>         | Australian Kestrel              | ✓                                                                         | ✓                                                        |
| <i>Falco longipennis</i>         | Australian Hobby                |                                                                           | ✓                                                        |

| Scientific Name                     | Common Name                 | This Survey<br>(9 – 13 October<br>2023; 23<br>February –<br>1 March 2024) | Bird and Bat<br>Utilisation<br>Surveys<br>(Stantec 2025) |
|-------------------------------------|-----------------------------|---------------------------------------------------------------------------|----------------------------------------------------------|
| <i>Falco peregrinus</i>             | Peregrine Falcon            |                                                                           | ✓                                                        |
| <i>Cheramoeca leucosternus</i>      | White-backed Swallow        | ✓                                                                         | ✓                                                        |
| <i>Hirundo neoxena</i>              | Welcome Swallow             | ✓                                                                         | ✓                                                        |
| <i>Petrochelidon ariel</i>          | Fairy Martin                |                                                                           | ✓                                                        |
| <i>Petrochelidon nigricans</i>      | Tree Martin                 | ✓                                                                         | ✓                                                        |
| <i>Megalurus cruralis</i>           | Brown Songlark              |                                                                           | ✓                                                        |
| <i>Megalurus mathewsi</i>           | Rufous Songlark             |                                                                           | ✓                                                        |
| <i>Malurus assimilis</i>            | Purple-backed Fairywren     | ✓                                                                         | ✓                                                        |
| <i>Malurus leucopterus</i>          | White-winged Fairywren      | ✓                                                                         | ✓                                                        |
| <i>Malurus splendens</i>            | Splendid Fairywren          | ✓                                                                         | ✓                                                        |
| <i>Acanthagenys rufogularis</i>     | Spiny-cheeked Honeyeater    |                                                                           | ✓                                                        |
| <i>Anthochaera carunculata</i>      | Red Wattlebird              |                                                                           | ✓                                                        |
| <i>Anthochaera lunulata</i>         | Western (Little) Wattlebird |                                                                           | ✓                                                        |
| <i>Epthianura albifrons</i>         | White-fronted Chat          | ✓                                                                         | ✓                                                        |
| <i>Epthianura tricolor</i>          | Crimson Chat                | ✓                                                                         |                                                          |
| <i>Gavicalis virescens</i>          | Singing Honeyeater          |                                                                           | ✓                                                        |
| <i>Glyciphila melanops</i>          | Tawny-crowned Honeyeater    |                                                                           | ✓                                                        |
| <i>Lichmera indistincta</i>         | Brown Honeyeater            | ✓                                                                         | ✓                                                        |
| <i>Manorina flavigula</i>           | Yellow-throated Miner       | ✓                                                                         | ✓                                                        |
| <i>Melithreptus brevirostris</i>    | Brown-headed Honeyeater     | ✓                                                                         |                                                          |
| <i>Phylidonyris nigra</i>           | White-cheeked Honeyeater    |                                                                           | ✓                                                        |
| <i>Phylidonyris novaehollandiae</i> | New Holland Honeyeater      | ✓                                                                         | ✓                                                        |
| <i>Purnella albifrons</i>           | White-fronted Honeyeater    | ✓                                                                         | ✓                                                        |
| <i>Merops ornatus</i>               | Rainbow Bee-eater           | ✓                                                                         |                                                          |
| <i>Grallina cyanoleuca</i>          | Magpie-lark                 | ✓                                                                         | ✓                                                        |
| <i>Anthus australis</i>             | Australian Pipit            | ✓                                                                         | ✓                                                        |
| <i>Colluricincla harmonica</i>      | Grey Shrike-thrush          | ✓                                                                         | ✓                                                        |
| <i>Pachycephala pectoralis</i>      | Western Whistler            |                                                                           | ✓                                                        |

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|------------------------------------|-------------------------|---------------------------------------------------------------------------|----------------------------------------------------------|
| <i>Pachycephala rufiventris</i>    | Rufous Whistler         | ✓                                                                         | ✓                                                        |
| <i>Pardalotus punctatus</i>        | Spotted Pardalote       |                                                                           | ✓                                                        |
| <i>Pardalotus striatus</i>         | Striated Pardalote      | ✓                                                                         | ✓                                                        |
| <i>Pelecanus conspicillatus</i>    | Australian Pelican      |                                                                           | ✓                                                        |
| <i>Eopsaltria georgiana</i>        | White-breasted Robin    |                                                                           | ✓                                                        |
| <i>Melanodryas cucullata</i>       | Hooded Robin            |                                                                           | ✓                                                        |
| <i>Microeca fascinans</i>          | Jacky Winter            |                                                                           | ✓                                                        |
| <i>Petroica boodang</i>            | Scarlet Robin           |                                                                           | ✓                                                        |
| <i>Petroica goodenovii</i>         | Red-capped Robin        | ✓                                                                         | ✓                                                        |
| <i>Microcarbo melanoleucos</i>     | Little Pied Cormorant   | ✓                                                                         | ✓                                                        |
| <i>Phalacrocorax sulcirostris</i>  | Little Black Cormorant  |                                                                           | ✓                                                        |
| <i>Coturnix pectoralis</i>         | Stubble Quail           | ✓                                                                         | ✓                                                        |
| <i>Tachybaptus novaehollandiae</i> | Australasian Grebe      | ✓                                                                         | ✓                                                        |
| <i>Barnardius zonarius</i>         | Australian Ringneck     | ✓                                                                         | ✓                                                        |
| <i>Fulica atra</i>                 | Eurasian Coot           |                                                                           | ✓                                                        |
| <i>Tribonyx ventralis</i>          | Black-tailed Native-hen | ✓                                                                         |                                                          |
| <i>Rhipidura albiscapa</i>         | Grey Fantail            |                                                                           | ✓                                                        |
| <i>Rhipidura leucophrys</i>        | Willie Wagtail          | ✓                                                                         | ✓                                                        |
| <i>Ninox boobook</i>               | Boobook Owl             | ✓                                                                         |                                                          |
| <i>Ninox connivens</i>             | Barking Owl             | ✓                                                                         |                                                          |
| <i>Threskiornis spinicollis</i>    | Straw-necked Ibis       |                                                                           | ✓                                                        |
| <i>Tyto alba</i>                   | Barn Owl                |                                                                           | ✓                                                        |
| <i>Zosterops lateralis</i>         | Silvereye               |                                                                           | ✓                                                        |
| <b>Reptiles</b>                    |                         |                                                                           |                                                          |
| <i>Moloch horridus</i>             | Thorny Devil            | ✓                                                                         |                                                          |
| <i>Pogona minor</i>                | Western Bearded Dragon  |                                                                           | ✓                                                        |
| <i>Pseudechis australis</i>        | Mulga Snake             |                                                                           | ✓                                                        |

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|----------------------------------|-----------------------------|---------------------------------------------------------------------------|----------------------------------------------------------|
| <i>Pseudonaja mengdeni</i>       | Western Brown Snake         |                                                                           | ✓                                                        |
| <i>Cryptoblepharus buchanani</i> | Buchanan's Snake-eyed Skink | ✓                                                                         |                                                          |
| <i>Tiliqua rugosa</i>            | Bobtail Lizard              | ✓                                                                         | ✓                                                        |
| <i>Varanus gouldii</i>           | Sand Monitor                | ✓                                                                         |                                                          |
| <b>Amphibians</b>                |                             |                                                                           |                                                          |
| <i>Limnodynastes dorsalis</i>    | Western Banjo Frog          | ✓                                                                         |                                                          |

# Appendix C    Desktop and Survey Species List

| Symbol            | Name                                                                               | Citation                       |
|-------------------|------------------------------------------------------------------------------------|--------------------------------|
| Database Searches |                                                                                    |                                |
| A                 | Threatened and Priority Fauna                                                      | DBCA (2023a)                   |
| B                 | Protected Matters Search Tool                                                      | DCCEEW (2024b)                 |
| C                 | Atlas of Living Australia Occurrence Search                                        | ALA (2023)                     |
| D                 | Birdlife Birdata                                                                   | Birdlife Australia (2023)      |
| E                 | NatureMap                                                                          | DBCA (2023b)                   |
| Surveys           |                                                                                    |                                |
| F                 | Twin Hills Fauna Site Inspection and Bird and Bat Utilisation Survey               | This report and (Stantec 2025) |
| G                 | Twin Hills Preliminary Flora and Fauna Assessment                                  | ENV Australia (2013)           |
| H                 | One Tree Preliminary Flora and Fauna Assessment                                    | ENV Australia (2013)           |
| I                 | Arrowsmith North Project Fauna Assessment                                          | Bamford (2022a)                |
| J                 | Eneabba Mineral Sands Phase 3 Basic Fauna Survey and Black-Cockatoo Assessment     | Western Wildlife (2021)        |
| K                 | Ocean Hill Seismic Survey: Terrestrial Fauna and Black Cockatoo Habitat Assessment | Strategen (2021)               |
| L                 | Arrowsmith Hydrogen Project Fauna Management Plan                                  | Infinite Green Energy (2020)   |

| Species                          | Common Name               | Conservation Status |          | A | B | C | D | E | F | G | H | I | J | K | L |
|----------------------------------|---------------------------|---------------------|----------|---|---|---|---|---|---|---|---|---|---|---|---|
|                                  |                           | BC Act              | EPBC Act |   |   |   |   |   |   |   |   |   |   |   |   |
| Amphibia                         |                           |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| Hylidae                          |                           |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Litoria adelaidensis</i>      | Slender Tree Frog         |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |
| <i>Litoria moorei</i>            | Motorbike Frog            |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |
| Limnodynastidae                  |                           |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Heleioporus albopunctatus</i> | Western Spotted Frog      |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |
| <i>Heleioporus eyrei</i>         | Moaning Frog              |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |
| <i>Heleioporus psammophilus</i>  | Sand Frog                 |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |
| <i>Limnodynastes dorsalis</i>    | Western Banjo Frog        |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |
| <i>Neobatrachus kunapalari</i>   | Kunapalari Frog           |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Neobatrachus pelobatoides</i> | Humming Frog              |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |
| <i>Neobatrachus sutor</i>        | Shoemaker Frog            |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| Myobatrachidae                   |                           |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Crinia pseudinsignifera</i>   | Bleating Froglet          |                     |          |   |   | x |   |   |   |   |   | x | x |   |   |
| <i>Myobatrachus gouldii</i>      | Turtle Frog               |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |
| <i>Pseudophryne guentheri</i>    | Crawling Toadlet          |                     |          |   |   | x |   |   |   |   |   | x | x |   |   |
| Aves                             |                           |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| Acanthizidae                     |                           |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Acanthiza apicalis</i>        | Inland Thornbill          |                     |          |   |   |   | x |   | x |   |   |   |   |   |   |
| <i>Acanthiza chrysorrhoa</i>     | Yellow-rumped Thornbill   |                     |          |   |   |   | x |   | x | x | x |   | x | x |   |
| <i>Acanthiza inornata</i>        | Western Thornbill         |                     |          |   |   |   | x |   | x |   |   |   |   |   |   |
| <i>Acanthiza uropygialis</i>     | Chestnut-rumped Thornbill |                     |          |   |   |   | x |   | x |   |   |   |   |   |   |
| <i>Aphelocephala leucopsis</i>   | Southern Whiteface        |                     | Vu       |   | x | x | x |   |   |   |   |   |   |   |   |

| Species                            | Common Name                       | Conservation Status |          | A | B | C | D | E | F | G | H | I | J | K | L |
|------------------------------------|-----------------------------------|---------------------|----------|---|---|---|---|---|---|---|---|---|---|---|---|
|                                    |                                   | BC Act              | EPBC Act |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Calamanthus campestris</i>      | Rufous Fieldwren                  |                     |          |   |   | X | X |   | X |   |   | X | X | X |   |
| <i>Calamanthus cauta</i>           | Shy Heathwren                     |                     |          |   |   | X | X |   | X |   |   | X |   |   |   |
| <i>Gerygone fusca</i>              | Western Gerygone                  |                     |          |   |   | X | X |   | X |   |   |   |   | X |   |
| <i>Pyrholaemus brunneus</i>        | Redthroat                         |                     |          |   |   | X | X |   |   |   |   |   |   |   |   |
| <i>Sericornis maculatus</i>        | Spotted Scrubwren                 |                     |          |   |   | X | X |   | X | X |   |   | X |   |   |
| <i>Sercornis frontalis</i>         | White-browed Scrubwren            |                     |          |   |   |   |   |   | X |   |   |   |   |   |   |
| Calamanthus montanellus            | Western Fieldwren                 |                     |          |   |   | X |   |   |   |   |   |   |   |   |   |
| <i>Smicrornis brevirostris</i>     | Weebill                           |                     |          |   |   | X | X |   | X | X | X |   |   | X |   |
| Accipitridae                       |                                   |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Accipiter cirrocephalus</i>     | Collared Sparrowhawk              |                     |          |   |   |   | X |   | X |   |   |   |   |   |   |
| <i>Accipiter fasciatus</i>         | Brown Goshawk                     |                     |          |   |   |   | X |   | X | X |   |   |   | X |   |
| <i>Aquila audax</i>                | Wedge-tailed Eagle                |                     |          |   |   |   | X |   | X | X | X |   |   | X |   |
| <i>Circus approximans</i>          | Swamp Harrier                     |                     |          |   |   | X | X |   |   |   |   |   |   |   |   |
| <i>Circus assimilis</i>            | Spotted Harrier                   |                     |          |   |   | X | X |   | X |   |   |   |   |   |   |
| <i>Elanus scriptus</i>             | Letter-winged Kite                | P4                  |          |   |   | X |   |   |   |   |   |   |   |   |   |
| <i>Haliaeetus leucogaster</i>      | White-bellied Sea-eagle           |                     |          |   |   |   | X |   |   |   |   |   |   |   |   |
| <i>Haliastur sphenurus</i>         | Whistling Kite                    |                     |          |   |   | X | X |   | X |   |   |   |   |   |   |
| <i>Hamirostra isura</i>            | Square-tailed Kite                |                     |          |   |   | X | X |   | X |   |   |   |   |   |   |
| <i>Hamirostra melanosternon</i>    | Black-breasted Buzzard            |                     |          |   |   | X |   |   |   |   |   |   |   |   |   |
| <i>Hieraaetus morphnoides</i>      | Little Eagle                      |                     |          |   |   |   | X |   | X |   |   |   |   |   |   |
| <i>Milvus migrans</i>              | Black Kite                        |                     |          |   |   | X |   |   |   |   |   |   |   |   |   |
| <i>Elanus axillaris</i>            | Black-shouldered Kite             |                     |          |   |   | X | X |   | X | X | X |   |   | X |   |
| Acrocephalidae                     |                                   |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Acrocephalus australis</i>      | Australian Reed Warbler           |                     |          |   |   |   | X |   | X | X |   |   |   |   |   |
| Aegothelidae                       |                                   |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Aegotheles cristatus</i>        | Australian Owlet-nightjar         |                     |          |   |   |   | X |   | X |   |   |   |   |   |   |
| Alcedinidae                        |                                   |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Dacelo novaeguineae</i>         | Laughing Kookaburra (naturalised) |                     |          |   |   |   | X |   | X |   |   |   |   |   | X |
| <i>Todiramphus pyrrhopygius</i>    | Red-backed Kingfisher             |                     |          |   |   |   | X |   |   |   |   |   |   |   |   |
| <i>Todiramphus sanctus</i>         | Sacred Kingfisher                 |                     |          |   |   |   | X |   | X |   |   |   |   |   |   |
| Anatidae                           |                                   |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Anas castanea</i>               | Chestnut Teal                     |                     |          |   |   |   | X |   |   |   |   |   |   |   |   |
| <i>Anas gracilis</i>               | Grey Teal                         |                     |          |   |   |   | X |   | X |   |   |   |   |   |   |
| <i>Spatula rhynchotis</i>          | Australasian Shoveler             |                     |          |   |   | X | X |   |   |   |   |   |   |   |   |
| <i>Anas superciliosa</i>           | Pacific Black Duck                |                     |          |   |   |   | X |   | X |   |   |   |   |   |   |
| <i>Aythya australis</i>            | Hardhead                          |                     |          |   |   |   | X |   |   |   |   |   |   |   |   |
| <i>Biziura lobata</i>              | Musk Duck                         |                     |          |   |   | X | X |   |   |   |   |   |   |   |   |
| <i>Chenonetta jubata</i>           | Australian Wood Duck              |                     |          |   |   | X | X |   | X | X |   |   |   |   |   |
| <i>Cygnus atratus</i>              | Black Swan                        |                     |          |   |   |   | X |   |   |   |   |   |   |   |   |
| <i>Dendrocygna eytoni</i>          | Plumed Whistling Duck             |                     |          |   |   | X |   |   |   |   |   |   |   |   |   |
| <i>Malacorhynchus membranaceus</i> | Pink-eared Duck                   |                     |          |   |   | X | X |   |   |   |   |   |   |   |   |
| <i>Oxyura australis</i>            | Blue-billed Duck                  | P4                  |          | X |   | X | X | X |   |   |   |   |   |   |   |
| <i>Tadorna tadornoides</i>         | Australian Shelduck               |                     |          |   |   |   | X |   | X | X | X |   |   |   |   |
| Anhingidae                         |                                   |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |

| Species                                | Common Name                                   | Conservation Status |          | A | B | C | D | E | F | G | H | I | J | K | L |
|----------------------------------------|-----------------------------------------------|---------------------|----------|---|---|---|---|---|---|---|---|---|---|---|---|
|                                        |                                               | BC Act              | EPBC Act |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Anhinga novaehollandiae</i>         | Australasian Darter                           |                     |          |   |   | x | x |   | x |   |   |   |   |   |   |
| <b>Apodidae</b>                        |                                               |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Apus pacificus</i>                  | Fork-tailed Swift                             | Mi                  | Mi       | x | x |   | x | x |   |   |   |   |   |   |   |
| <b>Ardeidae</b>                        |                                               |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Bubulcus coromandus</i>             | Eastern Cattle Egret                          | Mi                  |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Ardea alba</i>                      | Great Egret                                   |                     |          |   |   | x | x |   | x |   |   |   |   |   |   |
| <i>Egretta novaehollandiae</i>         | White-faced Heron                             |                     |          |   |   | x | x |   | x | x |   |   |   |   |   |
| <i>Ardea pacifica</i>                  | White-necked Heron                            |                     |          |   |   | x | x |   | x |   |   |   |   |   |   |
| <i>Egretta sacra</i>                   | Eastern Reef Egret                            |                     |          |   |   | x | x |   |   |   |   |   |   |   |   |
| <i>Nycticorax caledonicus</i>          | Rufous Night-heron                            |                     |          |   |   | x | x |   |   |   |   |   |   |   |   |
| <i>Ardea modesta</i>                   | Great Egret                                   |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <b>Artamidae</b>                       |                                               |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Artamus cinereus</i>                | Black-faced Woodswallow                       |                     |          |   |   |   | x |   | x | x | x |   | x | x |   |
| <i>Artamus cyanopterus</i>             | Dusky Woodswallow                             |                     |          |   |   |   | x |   |   |   |   |   |   |   |   |
| <i>Artamus personatus</i>              | Masked Woodswallow                            |                     |          |   |   |   | x |   | x |   |   |   |   |   |   |
| <i>Artamus superciliosus</i>           | White-browed Woodswallow                      |                     |          |   |   |   |   |   | x |   |   |   |   |   |   |
| <i>Cracticus nigrogularis</i>          | Pied Butcherbird                              |                     |          |   |   | x | x |   | x | x | x |   | x | x |   |
| <i>Gymnorhina tibicen</i>              | Australian Magpie                             |                     |          |   |   | x | x |   | x | x | x |   | x | x |   |
| <i>Cracticus torquatus</i>             | Grey Butcherbird                              |                     |          |   |   | x | x |   | x |   |   |   |   | x |   |
| <i>Strepera versicolor</i>             | Grey Currawong                                |                     |          |   |   |   | x |   |   |   |   |   |   |   |   |
| <b>Burhinidae</b>                      |                                               |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Burhinus grallarius</i>             | Bush Stone Curlew                             |                     |          |   |   |   |   |   | x |   |   |   |   |   |   |
| <b>Cacatuidae</b>                      |                                               |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Lophochroa leadbeateri</i>          | Major Mitchell's Cockatoo                     |                     |          |   |   | x | x |   |   |   |   |   |   |   |   |
| <i>Cacatua pastinator</i>              | Western Long-billed Corella                   |                     |          |   |   |   | x |   | x |   |   |   |   | x |   |
| <i>Eolophus roseicapilla</i>           | Galah                                         |                     |          |   |   | x | x |   | x | x | x |   | x | x |   |
| <i>Cacatua sanguinea</i>               | Little Corella                                |                     |          |   |   |   | x |   | x |   |   |   |   | x |   |
| <i>Calyptorhynchus banksii samueli</i> | Red-tailed Black-Cockatoo                     |                     |          |   |   |   | x |   | x |   | x |   |   |   |   |
| <i>Calyptorhynchus banksii naso</i>    | Forest Red-tailed Black-Cockatoo <sup>3</sup> | Vu                  | Vu       | x |   |   |   | x |   |   |   |   |   |   |   |
| <i>Zanda baudinii</i>                  | Baudin's Black-Cockatoo                       | En                  | En       |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Zanda latirostris</i>               | Carnaby's Black-Cockatoo                      | En                  | En       | x | x | x | x | x | x | x | x | x | x | x | x |
| <i>Nymphicus hollandicus</i>           | Cockatiel                                     |                     |          |   |   | x | x |   | x |   |   |   |   |   |   |
| <b>Campephagidae</b>                   |                                               |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Coracina maxima</i>                 | Ground Cuckoo-shrike                          |                     |          |   |   |   | x |   | x |   |   |   |   |   |   |
| <i>Coracina novaehollandiae</i>        | Black-faced Cuckoo-shrike                     |                     |          |   |   |   | x |   | x | x | x |   |   | x |   |
| <i>Lalage tricolor</i>                 | White-winged Triller                          |                     |          |   |   |   | x |   | x |   | x |   |   |   |   |
| <b>Casuariidae</b>                     |                                               |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Dromaius novaehollandiae</i>        | Emu                                           |                     |          |   |   | x | x |   | x | x | x | x |   | x |   |
| <b>Charadriidae</b>                    |                                               |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Charadrius melanops</i>             | Black-fronted Dotterel                        |                     |          |   |   | x | x |   | x |   |   |   |   | x |   |
| <i>Charadrius mongolus</i>             | Lesser Sand Plover                            | En; Mi              | En; Mi   |   |   |   | x |   |   |   |   |   |   |   |   |
| <i>Charadrius ruficapillus</i>         | Red-capped Plover                             |                     |          |   |   |   | x |   |   |   |   |   |   |   |   |
| <i>Erythronyctes alba</i>              | Red-kneed Dotterel                            |                     |          |   |   | x | x |   |   |   |   |   |   |   |   |
| <i>Peltohyas australis</i>             | Inland Dotterel                               |                     |          |   |   |   | x |   |   |   |   |   |   |   |   |

| Species                                | Common Name                                | Conservation Status |          | A | B | C | D | E | F | G | H | I | J | K | L |
|----------------------------------------|--------------------------------------------|---------------------|----------|---|---|---|---|---|---|---|---|---|---|---|---|
|                                        |                                            | BC Act              | EPBC Act |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Pluvialis squatarola</i>            | Grey Plover                                | Mi                  | Mi       | x |   | x | x | x |   |   |   |   |   |   |   |
| <i>Thinornis cucullatus</i>            | Hooded Plover                              | P4                  |          | x |   | x | x | x |   |   |   |   |   |   |   |
| <i>Vanellus tricolor</i>               | Banded Lapwing                             |                     |          |   |   |   | x |   | x |   | x |   |   |   |   |
| Columbidae                             |                                            |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Columba livia</i>                   | Rock Dove <sup>1</sup>                     |                     |          |   |   |   | x |   |   |   |   | x |   |   |   |
| <i>Geopelia cuneata</i>                | Diamond Dove                               |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Ocyphaps lophotes</i>               | Crested Pigeon                             |                     |          |   |   | x | x |   | x | x | x | x | x | x |   |
| <i>Phaps chalcoptera</i>               | Common Bronzewing                          |                     |          |   |   |   | x |   | x | x |   | x | x | x |   |
| <i>Streptopelia senegalensis</i>       | Laughing Dove <sup>1</sup>                 |                     |          |   |   | x | x |   | x |   |   | x |   |   |   |
| Corvidae                               |                                            |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Corvus bennetti</i>                 | Little Crow                                |                     |          |   |   | x | x |   | x |   |   |   |   | x |   |
| <i>Corvus coronoides</i>               | Australian Raven                           |                     |          |   |   | x | x |   | x | x | x |   | x |   |   |
| <i>Corvus orru</i>                     | Torresian Crow                             |                     |          |   |   | x | x |   |   |   |   |   |   |   |   |
| Cuculidae                              |                                            |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Cacomantis flabelliformis</i>       | Fan-tailed Cuckoo                          |                     |          |   |   |   | x |   | x |   |   |   | x |   |   |
| <i>Heteroscenes pallidus</i>           | Pallid Cuckoo                              |                     |          |   |   | x | x |   | x |   | x |   |   |   |   |
| <i>Chalcites basalís</i>               | Horsfield's Bronze-cuckoo                  |                     |          |   |   | x | x |   | x |   | x |   |   | x |   |
| <i>Chalcites lucidus</i>               | Shining Bronze-cuckoo                      |                     |          |   |   | x | x |   | x |   |   |   |   |   |   |
| <i>Chalcites osculans</i>              | Black-eared Cuckoo                         |                     |          |   |   | x | x |   |   |   |   |   |   |   |   |
| Dicaeidae                              |                                            |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Dicaeum hirundinaceum</i>           | Mistletoebird                              |                     |          |   |   |   | x |   | x | x | x |   |   | x |   |
| Diomedaeidae                           |                                            |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Diomedea epomophora</i>             | Royal Albatross <sup>2</sup>               | Vu; Mi              | Mi       |   | x |   |   |   |   |   |   |   |   |   |   |
| <i>Diomedea exulans</i>                | Wandering Albatross <sup>2</sup>           | Vu; Mi              | Vu; Mi   |   | x |   |   |   |   |   |   |   |   |   |   |
| <i>Diomedea exulans amsterdamensis</i> | Amsterdam Albatross <sup>2</sup>           | Cr; Mi              | En; Mi   |   | x |   |   |   |   |   |   |   |   |   |   |
| <i>Thalassarche carteri</i>            | Indian Yellow-nosed Albatross <sup>2</sup> | En; Mi              | V; Mi    |   | x |   |   |   |   |   |   |   |   |   |   |
| <i>Thalassarche cauta</i>              | Shy Albatross <sup>2</sup>                 | Vu; MI              | En; Mi   |   | x |   |   |   |   |   |   |   |   |   |   |
| <i>Thalassarche cauta steadi</i>       | White-capped Albatross <sup>2</sup>        | Vu; Mi              | Mi       |   | x |   |   |   |   |   |   |   |   |   |   |
| <i>Thalassarche impavida</i>           | Campbell Albatross <sup>2</sup>            | Vu; Mi              | Mi       |   | x |   |   |   |   |   |   |   |   |   |   |
| <i>Thalassarche melanophris</i>        | Black-browed Albatross <sup>2</sup>        | En; Mi              | Vu; Mi   |   | x |   |   |   |   |   |   |   |   |   |   |
| Estrildidae                            |                                            |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Taeniopygia guttata</i>             | Zebra Finch                                |                     |          |   |   | x | x |   | x |   |   |   |   |   |   |
| Falconidae                             |                                            |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Falco berigora</i>                  | Brown Falcon                               |                     |          |   |   |   | x |   | x |   | x |   |   | x |   |
| <i>Falco cenchroides</i>               | Australian Kestrel                         |                     |          |   |   |   | x |   | x | x | x |   | x | x |   |
| <i>Falco hypoleucos</i>                | Grey Falcon                                | Vu                  | Vu       |   | x |   | x |   |   |   |   |   |   |   |   |
| <i>Falco longipennis</i>               | Australian Hobby                           |                     |          |   |   |   | x |   | x |   |   |   |   |   |   |
| <i>Falco peregrinus</i>                | Peregrine Falcon                           | S                   |          | x |   |   | x | x | x |   |   |   |   | x |   |
| Haematopodidae                         |                                            |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Haematopus fuliginosus</i>          | Sooty Oystercatcher                        |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Haematopus longirostris</i>         | Pied Oystercatcher                         |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| Hirundinidae                           |                                            |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Cheramoeca leucosternus</i>         | White-backed Swallow                       |                     |          |   |   | x | x |   | x | x |   |   | x | x |   |
| <i>Hirundo neoxena</i>                 | Welcome Swallow                            |                     |          |   |   |   | x |   | x | x |   |   | x | x |   |

| Species                              | Common Name                          | Conservation Status |          | A | B | C | D | E | F | G | H | I | J | K | L |
|--------------------------------------|--------------------------------------|---------------------|----------|---|---|---|---|---|---|---|---|---|---|---|---|
|                                      |                                      | BC Act              | EPBC Act |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Petrochelidon ariel</i>           | Fairy Martin                         |                     |          |   |   |   | x |   | x |   |   |   |   |   |   |
| <i>Petrochelidon nigricans</i>       | Tree Martin                          |                     |          |   |   |   | x |   | x | x | x |   | x |   |   |
| Laridae                              |                                      |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Anous stolidus</i>                | Common Noddy <sup>2</sup>            | Mi                  | Mi       |   | x |   |   |   |   |   |   |   |   |   |   |
| <i>Anous tenuirostris melanops</i>   | Australian Lesser Noddy <sup>2</sup> | En                  | Vu       |   | x |   |   |   |   |   |   |   |   |   |   |
| <i>Larus novaehollandiae</i>         | Silver Gull                          |                     |          |   |   | x | x |   |   |   |   |   |   |   |   |
| <i>Larus pacificus</i>               | Pacific Gull                         |                     |          |   |   | x | x |   |   |   |   |   |   |   |   |
| <i>Sternula albifrons</i>            | Little Tern <sup>2</sup>             | Mi                  | Mi       |   | x |   |   |   |   |   |   |   |   |   |   |
| <i>Hydroprogne caspia</i>            | Caspian Tern <sup>2</sup>            | Mi                  | Mi       | x | x | x | x | x |   |   |   |   |   |   |   |
| <i>Sterna dougallii</i>              | Roseate Tern <sup>2</sup>            | Mi                  | Mi       |   | x |   |   | x |   |   |   |   |   |   |   |
| <i>Chlidonias hybrida</i>            | Whiskered Tern                       |                     |          |   |   |   | x |   |   |   |   |   |   |   |   |
| <i>Sternula nereis nereis</i>        | Fairy Tern <sup>2</sup>              | Vu                  | Vu       |   | x | x | x |   |   |   |   |   |   |   |   |
| <i>Thalasseus bergii</i>             | Greater Creseted Tern <sup>2</sup>   |                     | Mi       | x |   | x | x | x |   |   |   |   |   |   |   |
| <i>Chlidonias leucopterus</i>        | White-winged Black Tern <sup>2</sup> |                     | Mi       |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Gelochelidon nilotica</i>         | Gull-billed Tern <sup>2</sup>        |                     | Mi       |   |   | x |   |   |   |   |   |   |   |   |   |
| Locustellidae                        |                                      |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Megalurus cruralis</i>            | Brown Songlark                       |                     |          |   |   |   | x |   | x |   |   |   |   |   |   |
| <i>Megalurus gramineus</i>           | Little Grassbird                     |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Megalurus mathewsi</i>            | Rufous Songlark                      |                     |          |   |   |   | x |   | x | x | x |   |   |   |   |
| Maluridae                            |                                      |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Malurus assimilis</i>             | Purple-backed Fairywren              |                     |          |   |   |   | x |   | x |   |   |   |   | x |   |
| <i>Malurus leucopterus</i>           | White-winged Fairywren               |                     |          |   |   |   | x |   | x | x | x |   | x | x |   |
| <i>Malurus pulcherrimus</i>          | Blue-breasted Fairywren              |                     |          |   |   |   | x |   |   |   |   |   |   |   |   |
| <i>Malurus splendens</i>             | Splendid Fairywren                   |                     |          |   |   |   | x |   | x |   |   |   | x | x |   |
| <i>Stipiturus malachurus</i>         | Southern Emuwren                     |                     |          |   |   | x | x |   |   |   |   |   |   |   |   |
| Megapodiidae                         |                                      |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Leipoa ocellata</i>               | Malleefowl                           | Vu                  | Vu       | x | x | x | x | x |   |   |   |   |   |   |   |
| Meliphagidae                         |                                      |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Acanthagenys rufogularis</i>      | Spiny-cheeked Honeyeater             |                     |          |   |   | x | x |   | x |   |   |   |   | x |   |
| <i>Acanthorhynchus superciliosus</i> | Western Spinebill                    |                     |          |   |   | x | x |   |   |   |   |   |   |   |   |
| <i>Anthochaera carunculata</i>       | Red Wattlebird                       |                     |          |   |   |   | x |   | x |   |   |   |   | x |   |
| <i>Anthochaera lunulata</i>          | Western (Little) Wattlebird          |                     |          |   |   |   | x |   | x |   |   |   |   |   |   |
| <i>Certhionyx variegatus</i>         | Pied Honeyeater                      |                     |          |   |   |   | x |   |   |   |   |   |   |   |   |
| <i>Epthianura albifrons</i>          | White-fronted Chat                   |                     |          |   |   |   | x |   | x | x | x |   |   |   |   |
| <i>Epthianura tricolor</i>           | Crimson Chat                         |                     |          |   |   |   | x |   | x |   |   |   |   |   |   |
| <i>Gavicalis virescens</i>           | Singing Honeyeater                   |                     |          |   |   | x | x |   | x | x | x |   | x | x |   |
| <i>Glyciphila melanops</i>           | Tawny-crowned Honeyeater             |                     |          |   |   | x | x |   | x |   | x |   | x | x |   |
| <i>Nesoptilotis leucotis</i>         | White-eared Honeyeater               |                     |          |   |   | x |   |   |   |   |   |   |   | x |   |
| <i>Lichmera indistincta</i>          | Brown Honeyeater                     |                     |          |   |   |   | x |   | x | x |   |   | x | x |   |
| <i>Manorina flavigula</i>            | Yellow-throated Miner                |                     |          |   |   |   | x |   | x | x |   |   |   |   |   |
| <i>Melithreptus brevirostris</i>     | Brown-headed Honeyeater              |                     |          |   |   |   | x |   | x |   |   |   |   |   |   |
| <i>Phylidonyris nigra</i>            | White-cheeked Honeyeater             |                     |          |   |   |   | x |   | x |   | x |   | x | x |   |
| <i>Phylidonyris novaehollandiae</i>  | New Holland Honeyeater               |                     |          |   |   |   | x |   | x |   |   |   |   | x |   |
| <i>Ptilotula ornata</i>              | Yellow-plumed Honeyeater             |                     |          |   |   | x | x |   |   |   |   |   |   | x |   |
| <i>Purnella albifrons</i>            | White-fronted Honeyeater             |                     |          |   |   | x | x |   | x |   |   |   |   |   |   |

| Species                           | Common Name                           | Conservation Status |          | A | B | C | D | E | F | G | H | I | J | K | L |   |
|-----------------------------------|---------------------------------------|---------------------|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                   |                                       | BC Act              | EPBC Act |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Sugomel niger</i>              | Black Honeyeater                      |                     |          |   |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Ptilotula plumulus</i>         | Grey-fronted Honeyeater               |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |   |
| <i>Sugomel nigrum</i>             | Black Honeyeater                      |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |   |
| Meropidae                         |                                       |                     |          |   |   |   |   |   |   |   |   |   |   |   |   | x |
| <i>Merops ornatus</i>             | Rainbow Bee-eater                     |                     |          |   |   |   | x |   | x |   |   | x |   |   | x |   |
| Monarchidae                       |                                       |                     |          |   |   |   |   |   |   |   |   |   |   |   |   | x |
| <i>Grallina cyanoleuca</i>        | Magpie-lark                           |                     |          |   |   | x | x |   | x | x | x |   | x |   |   |   |
| Motacillidae                      |                                       |                     |          |   |   |   |   |   |   |   |   |   |   |   |   | x |
| <i>Anthus australis</i>           | Australian Pipit                      |                     |          |   |   |   | x |   | x | x | x |   | x |   |   |   |
| <i>Motacilla cinerea</i>          | Grey Wagtail                          | Mi                  | Mi       |   | x |   |   |   |   |   |   |   |   |   |   |   |
| Oceanitidae                       |                                       |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Pelagodroma marina</i>         | White-faced Storm Petrel <sup>2</sup> |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |   |
| Oreoicidae                        |                                       |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Oreoica gutturalis</i>         | Crested Bellbird                      |                     |          |   |   | x | x |   |   |   |   |   |   |   |   |   |
| Otidae                            |                                       |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Ardeotis australis</i>         | Australian Bustard                    |                     |          |   |   | x | x |   |   |   |   |   |   |   |   |   |
| Pachycephalidae                   |                                       |                     |          |   |   |   |   |   |   |   |   |   |   |   |   | x |
| <i>Colluricincla harmonica</i>    | Grey Shrike-thrush                    |                     |          |   |   |   | x |   | x |   | x |   | x |   |   |   |
| <i>Pachycephala pectoralis</i>    | Western Whistler                      |                     |          |   |   |   | x |   | x |   |   |   |   | x |   |   |
| <i>Pachycephala rufiventris</i>   | Rufous Whistler                       |                     |          |   |   |   | x |   | x |   | x |   |   |   |   |   |
| Pandionidae                       |                                       |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Pandion haliaetus</i>          | Osprey                                | Mi                  | Mi       |   | x | x | x |   |   |   |   |   |   |   |   |   |
| Pardalotidae                      |                                       |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Pardalotus punctatus</i>       | Spotted Pardalote                     |                     |          |   |   |   | x |   | x |   |   |   |   | x |   |   |
| <i>Pardalotus striatus</i>        | Striated Pardalote                    |                     |          |   |   |   | x |   | x |   |   |   | x |   |   |   |
| Pelecanidae                       |                                       |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Pelecanus conspicillatus</i>   | Australian Pelican                    |                     |          |   |   | x | x |   | x |   |   |   |   |   |   |   |
| Petroicidae                       |                                       |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Drymodes brunneopygia</i>      | Southern Scrub-robin                  |                     |          |   |   | x | x |   |   |   |   |   |   | x |   |   |
| <i>Eopsaltria georgiana</i>       | White-breasted Robin                  |                     |          |   |   |   |   |   | x |   |   |   |   |   |   |   |
| <i>Eopsaltria griseogularis</i>   | Western Yellow Robin                  |                     |          |   |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Melanodryas cucullata</i>      | Hooded Robin                          |                     |          |   |   |   | x |   | x |   |   |   |   |   |   |   |
| <i>Microeca fascinans</i>         | Jacky Winter                          |                     |          |   |   |   | x |   | x |   |   |   |   |   |   |   |
| <i>Petroica boodang</i>           | Scarlet Robin                         |                     |          |   |   |   | x |   | x |   |   |   |   |   |   |   |
| <i>Petroica goodenovii</i>        | Red-capped Robin                      |                     |          |   |   |   | x |   | x | x | x |   |   |   |   |   |
| Phalacrocoracidae                 |                                       |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Phalacrocorax carbo</i>        | Great Cormorant                       |                     |          |   |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Microcarbo melanoleucos</i>    | Little Pied Cormorant                 |                     |          |   |   | x | x |   | x |   |   |   |   |   |   |   |
| <i>Phalacrocorax sulcirostris</i> | Little Black Cormorant                |                     |          |   |   |   | x |   | x |   |   |   |   |   |   |   |
| <i>Phalacrocorax varius</i>       | Pied Cormorant                        |                     |          |   |   |   | x |   |   |   |   |   |   |   |   |   |
| Phasianidae                       |                                       |                     |          |   |   |   |   |   |   |   |   |   |   |   |   | x |
| <i>Coturnix pectoralis</i>        | Stubble Quail                         |                     |          |   |   |   | x |   | x |   | x | x |   |   |   |   |
| Podargidae                        |                                       |                     |          |   |   |   |   |   |   |   |   |   |   |   |   | x |
| <i>Podargus strigoides</i>        | Tawny Frogmouth                       |                     |          |   |   | x | x |   |   |   |   |   |   |   |   |   |
| Podicipedidae                     |                                       |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |

| Species                                    | Common Name                          | Conservation Status |          | A | B | C | D | E | F | G | H | I | J | K | L |
|--------------------------------------------|--------------------------------------|---------------------|----------|---|---|---|---|---|---|---|---|---|---|---|---|
|                                            |                                      | BC Act              | EPBC Act |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Podiceps cristatus</i>                  | Great Crested Grebe                  |                     |          |   |   | x | x |   |   |   |   |   |   |   |   |
| <i>Poliocephalus poliocephalus</i>         | Hoary-headed Grebe                   |                     |          |   |   | x | x |   |   |   |   |   |   | x |   |
| <i>Tachybaptus novaehollandiae</i>         | Australasian Grebe                   |                     |          |   |   | x | x |   | x |   |   |   |   |   |   |
| Pomatostomidae                             |                                      |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Pomatostomus superciliosus</i>          | White-browed Babbler                 |                     |          |   |   |   | x |   |   |   |   |   |   |   |   |
| Procellariidae                             |                                      |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Macronectes giganteus</i>               | Southern Giant Petrel <sup>2</sup>   | Mi                  | En; Mi   |   | x | x |   |   |   |   |   |   |   |   |   |
| <i>Macronectes halli</i>                   | Northern Giant Petrel <sup>2</sup>   | Mi                  | Vu; Mi   |   | x |   |   |   |   |   |   |   |   |   |   |
| <i>Pterodroma mollis</i>                   | Soft-plumaged Petrel <sup>2</sup>    |                     | Vu       |   | x |   |   |   |   |   |   |   |   |   |   |
| <i>Ardenna carneipes</i>                   | Flesh-footed Shearwater <sup>2</sup> | Vu; Mi              | Mi       |   | x | x |   |   |   |   |   |   |   |   |   |
| <i>Ardenna pacifica</i>                    | Wedge-tailed Shearwater <sup>2</sup> | Mi                  | Mi       |   |   | x | x |   |   |   |   |   |   |   |   |
| Psittaculidae                              |                                      |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Melopsittacus undulatus</i>             | Budgerigar                           |                     |          |   |   | x | x |   |   |   |   |   |   |   |   |
| <i>Neophema elegans</i>                    | Elegant Parrot                       |                     |          |   |   |   | x |   |   |   |   |   | x |   |   |
| <i>Parvipsitta porphyrocephala</i>         | Purple-crowned Lorikeet              |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Pezoporus occidentalis</i>              | Night Parrot <sup>3</sup>            | Cr                  | En       |   | x |   |   |   |   |   |   |   |   |   |   |
| <i>Pezopous flaviventris</i>               | Western Ground Parrot <sup>3</sup>   | Cr                  | Cr       | x |   |   |   | x |   |   |   |   |   |   |   |
| <i>Psephotellus varius</i>                 | Mulga Parrot                         |                     |          |   |   |   | x |   |   |   |   |   |   | x |   |
| <i>Barnardius zonarius</i>                 | Australian Ringneck                  |                     |          |   |   | x | x |   | x | x |   |   | x |   |   |
| <i>Polytelis anthopeplus</i>               | Regent Parrot                        |                     |          |   |   | x | x |   |   |   |   |   |   |   |   |
| Rallidae                                   |                                      |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Fulica atra</i>                         | Eurasian Coot                        |                     |          |   |   | x | x |   | x |   |   |   |   |   |   |
| <i>Tribonyx ventralis</i>                  | Black-tailed Native-hen              |                     |          |   |   | x | x |   | x |   |   |   |   |   |   |
| Recurvirostridae                           |                                      |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Cladorhynchus leucocephalus</i>         | Banded Stilt                         |                     |          |   |   | x | x |   |   |   |   |   |   |   |   |
| <i>Himantopus himantopus</i>               | Black-winged Stilt                   |                     |          |   |   | x | x |   |   |   |   |   |   |   |   |
| <i>Recurvirostra novaehollandiae</i>       | Red-necked Avocet                    |                     |          |   |   | x | x |   |   |   |   |   |   |   |   |
| <i>Himantopus himantopus leucocephalus</i> | Pied Stilt                           |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| Rhipiduridae                               |                                      |                     |          |   |   |   |   |   |   |   |   |   |   | x |   |
| <i>Rhipidura albiscapa</i>                 | Grey Fantail                         |                     |          |   |   |   | x |   | x | x | x |   |   | x |   |
| <i>Rhipidura leucophrys</i>                | Willie Wagtail                       |                     |          |   |   |   | x |   | x | x | x |   | x |   |   |
| Rostratulidae                              |                                      |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Rostratula australis</i>                | Australian Painted Snipe             | En; Mi              | En       |   | x |   |   |   |   |   |   |   |   |   |   |
| Scolopacidae                               |                                      |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Arenaria interpres</i>                  | Ruddy Turnstone                      | Mi                  | Mi       | x |   | x | x | x |   |   |   |   |   |   |   |
| <i>Calidris acuminata</i>                  | Sharp-tailed Sandpiper               | Mi                  | Mi       | x | x |   | x | x |   |   |   |   |   |   | x |
| <i>Calidris canutus</i>                    | Red Knot                             | Mi                  | En; Mi   |   | x |   |   |   |   |   |   |   |   |   |   |
| <i>Calidris ferruginea</i>                 | Curlew Sandpiper                     | Vu; Mi              | Cr; Mi   | x | x |   | x | x |   |   |   |   |   |   |   |
| <i>Calidris melanotos</i>                  | Pectoral Sandpiper                   | Mi                  | Mi       |   | x |   |   |   |   |   |   |   |   |   |   |
| <i>Calidris ruficollis</i>                 | Red-necked Stint                     | Mi                  | Mi       | x |   |   | x | x |   |   |   |   |   |   |   |
| <i>Limosa lapponica</i>                    | Bar-tailed Godwit                    | Cr; Mi              | Cr; Mi   | x | x | x | x | x |   |   |   |   |   |   |   |
| <i>Numenius madagascariensis</i>           | Eastern Curlew                       | Vu; Mi              | Cr; Mi   |   | x |   |   |   |   |   |   |   |   |   |   |
| <i>Numenius phaeopus</i>                   | Whimbrel                             | Mi                  | Mi       | x |   |   | x | x |   |   |   |   |   |   |   |
| <i>Tringa brevipes</i>                     | Grey-tailed Tattler                  | Mi; P4              | Mi       |   |   |   | x |   |   |   |   |   |   |   |   |

| Species                               | Common Name                | Conservation Status |          | A | B | C | D | E | F | G | H | I | J | K | L |
|---------------------------------------|----------------------------|---------------------|----------|---|---|---|---|---|---|---|---|---|---|---|---|
|                                       |                            | BC Act              | EPBC Act |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Tringa glareola</i>                | Wood Sandpiper             | Mi                  | Mi       | x |   |   |   | x |   |   |   |   |   |   |   |
| <i>Actitis hypoleucos</i>             | Common Sandpiper           | Mi                  | Mi       | x | x | x | x | x |   |   |   |   |   |   |   |
| <i>Tringa nebularia</i>               | Common Greenshank          | Mi                  | Mi       | x | x |   | x | x |   |   |   |   |   |   |   |
| <i>Xenus cinereus</i>                 | Terek Sandpiper            | Mi                  | Mi       | x |   |   |   | x |   |   |   |   |   |   |   |
| Strigidae                             |                            |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Ninox boobook</i>                  | Boobook Owl                |                     |          |   |   |   | x |   | x |   |   |   |   |   |   |
| <i>Ninox connivens</i>                | Barking Owl                |                     |          |   |   |   | x |   |   |   |   |   |   |   |   |
| Threskiornithidae                     |                            |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Platalea flavipes</i>              | Yellow-billed Spoonbill    |                     |          |   |   |   | x |   |   |   |   |   |   |   |   |
| <i>Plegadis falcinellus</i>           | Glossy Ibis                | Mi                  | Mi       | x |   | x | x | x |   |   |   |   |   |   |   |
| <i>Threskiornis molucca</i>           | Australian White Ibis      |                     |          |   |   | x | x |   |   |   |   |   |   |   |   |
| <i>Threskiornis spinicollis</i>       | Straw-necked Ibis          |                     |          |   |   | x | x |   | x | x |   |   |   |   |   |
| Turnicidae                            |                            |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Turnix velox</i>                   | Little Button-quail        |                     |          |   |   |   | x |   |   |   |   |   |   |   |   |
| Tytonidae                             |                            |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Tyto alba</i>                      | Barn Owl                   |                     |          |   |   | x | x |   | x |   |   |   |   |   |   |
| Zosteropidae                          |                            |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Zosterops lateralis</i>            | Silvereye                  |                     |          |   |   | x | x |   | x | x | x |   |   |   |   |
| Mammalia                              |                            |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| Bovidae                               |                            |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Capra hircus</i>                   | Goat <sup>1</sup>          |                     |          |   |   | x |   |   |   |   |   |   |   |   | x |
| Canidae                               |                            |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Canis lupus</i>                    | Dog <sup>1</sup>           |                     |          |   |   | x |   |   |   |   |   |   |   | x | x |
| <i>Canis lupus dingo</i>              | Dingo (naturalised)        |                     |          |   |   |   |   |   |   |   |   |   |   | x |   |
| <i>Vulpes vulpes</i>                  | Red Fox <sup>1</sup>       |                     |          |   |   | x |   |   | x |   |   |   | x | x | x |
| Dasyuridae                            |                            |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Dasyurus geoffroii</i>             | Chuditch                   | Vu                  | Vu       |   | x |   |   |   |   |   |   |   |   |   |   |
| <i>Parantechinus apicalis</i>         | Dibbler                    | En                  | En       |   | x |   |   |   |   |   |   |   |   |   |   |
| <i>Phascogale tapoatafa wambenger</i> | Brush-tailed Phascogale    | Cd                  |          | x |   |   |   | x |   |   |   |   |   |   |   |
| <i>Sminthopsis crassicaudata</i>      | Fat-tailed Dunnart         |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Sminthopsis dolichura</i>          | Little Long-tailed Dunnart |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Sminthopsis granulipes</i>         | White-tailed Dunnart       |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| Felidae                               |                            |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Felis catus</i>                    | Cat <sup>1</sup>           |                     |          |   |   | x |   |   | x |   |   |   |   | x |   |
| Leporidae                             |                            |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Oryctolagus cuniculus</i>          | Rabbit <sup>1</sup>        |                     |          |   |   | x |   |   | x |   |   |   | x | x | x |
| Macropodidae                          |                            |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Macropus fuliginosus</i>           | Western Grey Kangaroo      |                     |          |   |   | x |   |   | x |   |   |   | x | x |   |
| <i>Notamacropus eugenii derbianus</i> | Tammar Wallaby             | P4                  |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Notamacropus irma</i>              | Western Brush Wallaby      | P4                  |          | x |   |   |   | x |   |   |   | x |   | x |   |
| <i>Osphranter robustus</i>            | Euro                       |                     |          |   |   | x |   |   | x |   |   |   | x | x |   |
| <i>Osphranter rufus</i>               | Red Kangaroo               |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| Megadermatidae                        |                            |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Macroderma gigas</i>               | Ghost Bat <sup>3</sup>     | Vu                  | Vu       |   | x | x |   |   |   |   |   |   |   |   |   |
| Molossidae                            |                            |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |



| Species                           | Common Name                     | Conservation Status |          | A | B | C | D | E | F | G | H | I | J | K | L |
|-----------------------------------|---------------------------------|---------------------|----------|---|---|---|---|---|---|---|---|---|---|---|---|
|                                   |                                 | BC Act              | EPBC Act |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Pseudechis australis</i>       | Mulga Snake                     |                     |          |   |   | x |   |   | x |   |   | x |   | x |   |
| <i>Pseudonaja mengdeni</i>        | Western Brown Snake             |                     |          |   |   | x |   |   | x |   |   | x |   |   |   |
| <i>Pseudonaja modesta</i>         | Ringed Brown Snake              |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Simoselaps bertholdi</i>       | Jan's Banded Snake              |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |
| <i>Simoselaps littoralis</i>      | West Coast Banded Snake         |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Suta gouldii</i>               | Gould's hooded snake            |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |
| <i>Hydrophis elegans</i>          | Elegant seasnake                |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Demansia reticulata</i>        | Yellow-faced Whipsnake          |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| Gekkonidae                        |                                 |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Christinus marmoratus</i>      | Marbled Gecko                   |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Gehyra variegata</i>           | Variegated Tree Dtella          |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |
| <i>Heteronotia binoei</i>         | Bynoe's Gecko                   |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| Pygopodidae                       |                                 |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Aprasia repens</i>             | Sandpain Worm-lizard            |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |
| <i>Delma fraseri</i>              | Fraser's Scalyfoot              |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |
| <i>Delma grayii</i>               | Side-barred Delma               |                     |          |   |   | x |   |   |   |   |   | x |   | x |   |
| <i>Lialis burtonis</i>            | Burton's Legless Lizard         |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |
| <i>Pletholax gracilis</i>         | Keeled Legless Lizard           |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Pygopus lepidopodus</i>        | Common Scalyfoot                |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |
| <i>Pygopus nigriceps</i>          | Hooded Scalyfoot                |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| Pythonidae                        |                                 |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Antaresia childreni</i>        | Children's Python               |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Aspidites ramsayi</i>          | Woma                            | P1                  |          |   |   | x |   |   |   |   |   |   |   |   |   |
| Scincidae                         |                                 |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Cryptoblepharus buchananii</i> | Buchanan's Snake-eyed Skink     |                     |          |   |   | x |   |   | x |   |   | x |   |   |   |
| <i>Ctenotus australis</i>         | Western Limestone Ctenotus      |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Ctenotus impar</i>             | Odd-striped Ctenotus            |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |
| <i>Ctenotus inornatus</i>         | Bar-shouldered Ctenotus         |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Ctenotus mimetes</i>           | Checker-sided ctenotus          |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Ctenotus pantherinus</i>       | Leopard Ctenotus                |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |
| <i>Ctenotus schomburgkii</i>      | Barred Wedge-snout Ctenotus     |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Cyclodomorphus celatus</i>     | Western Slender Bluetongue      |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |
| <i>Egernia kingii</i>             | King's Skink                    |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Egernia stokesii badia</i>     | Western Spiny-tailed Skink      | Vu                  | En       | x | x | x |   | x |   |   |   |   |   |   |   |
| <i>Lerista christinae</i>         | Bold-striped Four-toed Slider   |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |
| <i>Lerista distinguenda</i>       | South-western Four-toed Slider  |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Lerista elegans</i>            | Elegant Slider                  |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |
| <i>Lerista gerrardii</i>          | Bold-striped Robust Slider      |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Lerista praepedita</i>         | West Coast Worm Slider          |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |
| <i>Liopholis multiscutata</i>     | Bulk Skink                      |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |
| <i>Menetia greyii</i>             | Common Dwarf Skink              |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |
| <i>Morethia obscura</i>           | Shrubland Pale-flecked Morethia |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Tiliqua occipitalis</i>        | Western Bluetongue              |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |

| Species                        | Common Name                         | Conservation Status |          | A | B | C | D | E | F | G | H | I | J | K | L |
|--------------------------------|-------------------------------------|---------------------|----------|---|---|---|---|---|---|---|---|---|---|---|---|
|                                |                                     | BC Act              | EPBC Act |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Tiliqua rugosa</i>          | Bobtail Lizard                      |                     |          |   |   | x |   |   | x | x | x | x |   | x |   |
| Typhlopidae                    |                                     |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Aniliios australis</i>      | Southern Blind Snake                |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |
| <i>Aniliios hamatus</i>        | Pale-headed Blind Snake             |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Aniliios affinis</i>        | Small-headed Blind Snake            |                     |          |   |   | x |   |   |   |   |   |   |   |   |   |
| <i>Aniliios waitii</i>         | Beaked Blind Snake                  |                     |          |   |   | x |   |   |   |   |   | x |   |   |   |
| Varanidae                      |                                     |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Varanus gouldii</i>         | Sand Monitor                        |                     |          |   |   | x |   |   | x |   |   | x | x | x |   |
| Invetebrates                   |                                     |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| Idiopidae                      |                                     |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Idiosoma kwongan</i>        | Heath Sheild-backed Trapdoor Spider | P1                  |          | x |   |   |   | x |   |   |   | x |   |   |   |
| <i>Idiosoma nigrum</i>         | Sheild-backed Trapdoor Spider       |                     | Vu       | x |   |   |   | x |   |   |   |   |   |   |   |
| Castniidae                     |                                     |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Synemon gratiosa</i>        | Graceful Sun Moth                   |                     |          | x |   |   |   | x |   |   |   |   |   |   |   |
| Tettigoniidae                  |                                     |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Phasmodes jeeba</i>         | Springtime Corroboree Stick Katydid |                     |          | x |   |   |   | x |   |   |   | x |   |   |   |
| <i>Hemisaga vepreculae</i>     | Thorny Bush Katydid                 |                     |          | x |   |   |   | x |   |   |   |   |   |   |   |
| Colletidae                     |                                     |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Hylaeus globuliferus</i>    | Woolybush Bee                       | P3                  |          | x |   |   |   | x |   |   |   |   |   |   |   |
| Bothriembryontidae             |                                     |                     |          |   |   |   |   |   |   |   |   |   |   |   |   |
| <i>Bothriembryon perobesus</i> | Land Snail                          | P1                  |          |   |   | x |   |   |   |   |   |   |   |   |   |

<sup>1</sup> Introduced species,<sup>2</sup> Species of significance excluded from the likelihood of occurrence due to being entirely marine species or Pelagic birds, <sup>3</sup> Species of significance excluded from likelihood of occurrence due to erroneous record or known to be locally extinct.

## Appendix D Target Group SRE Taxa

| Name                             | Source | Habitat within source report | Similar habitat present | Number of records within 100km | Nearest record (km) | Likelihood of occurrence |
|----------------------------------|--------|------------------------------|-------------------------|--------------------------------|---------------------|--------------------------|
| <b>Mygalomorph Spiders</b>       |        |                              |                         |                                |                     |                          |
| <i>Aname mainae</i>              | WAM    | -                            | -                       | 9                              | 8.24                | High                     |
| <i>Idiosoma kwongan</i>          | WAM    | Laterite heath               | Yes                     | 7                              | 17.86               | Moderate                 |
| <i>Missulena hoggi</i>           | WAM    | -                            | -                       | 2                              | 17.86               | Moderate                 |
| <i>Teyl `kwonganensis`</i>       | WAM    | -                            | -                       | 2                              | 17.86               | Moderate                 |
| <i>Euoplos mcmillani</i>         | WAM    | -                            | -                       | 2                              | 17.86               | Moderate                 |
| <i>Missulena occatoria</i>       | WAM    | -                            | -                       | 3                              | 19.18               | Moderate                 |
| <i>Aname `MYG633`</i>            | WAM    | -                            | -                       | 6                              | 20.31               | Moderate                 |
| <i>Kwonkan `MYG060`</i>          | WAM    | -                            | -                       | 1                              | 20.31               | Moderate                 |
| <i>Idiommatia blackwalli</i>     | WAM    | -                            | -                       | 2                              | 20.45               | Moderate                 |
| <i>Idiosoma `BMYG189`</i>        | WAM    | -                            | -                       | 2                              | 26.83               | Moderate                 |
| <i>Gaius villosus</i>            | WAM    | -                            | -                       | 2                              | 27.71               | Moderate                 |
| <i>Selenotholus foelschei</i>    | WAM    | -                            | -                       | 1                              | 27.77               | Moderate                 |
| <i>Bungulla banksia</i>          | WAM    | -                            | -                       | 6                              | 28.74               | Moderate                 |
| <i>Idiosoma `MYG074`</i>         | WAM    | Wandoo woodland              | Yes                     | 2                              | 28.74               | Moderate                 |
| <i>Missulena `Bisevac sp. 1`</i> | WAM    | Laterite heath               | -                       | 1                              | 28.74               | Moderate                 |
| <i>Missulena `Bisevac sp. 2`</i> | WAM    | -                            | -                       | 1                              | 28.74               | Moderate                 |
| <i>Euoplos `MYG792`</i>          | WAM    | -                            | -                       | 2                              | 31.86               | Moderate                 |
| <i>Idiosoma `BMYG188`</i>        | WAM    | -                            | -                       | 3                              | 33.14               | Moderate                 |
| <i>Idiosoma `simplex`</i>        | WAM    | -                            | -                       | 1                              | 38.69               | Moderate                 |
| <i>Aname macleayorum</i>         | WAM    | Wandoo woodland              | Yes                     | 1                              | 45.84               | Moderate                 |
| <i>Synothele howi</i>            | WAM    | -                            | -                       | 1                              | 47.59               | Moderate                 |
| <i>Missulena granulosa</i>       | WAM    | -                            | -                       | 1                              | 49.18               | Moderate                 |
| <b>Harvestmen</b>                |        |                              |                         |                                |                     |                          |
| <i>Ballarra longipalpus</i>      | WAM    | Shaley sandstone             |                         | 3                              | 37.83               | Moderate                 |
| <i>Megalopsalis tanisphyros</i>  | WAM    | -                            | -                       | 3                              | 50.57               | Low                      |

|                                               |     |                                      |     |    |       |          |
|-----------------------------------------------|-----|--------------------------------------|-----|----|-------|----------|
| <i>Tercentenarium linnaei</i>                 | WAM | -                                    | -   | 1  | 53.25 | Low      |
| <b>Scorpions</b>                              |     |                                      |     |    |       |          |
| <i>Urodacus`armatus`</i>                      | WAM | Kwongan heath                        | Yes | 4  | 17.86 | Moderate |
| <i>Lychas jonesae</i>                         | WAM | -                                    | -   | 1  | 19.18 | Moderate |
| <i>Lychas`austroccidentalis`</i>              | WAM | Open salt lake country               | No  | 18 | 20.31 | Moderate |
| <i>Urodacus novaehollandiae</i>               | WAM | Laterite heath                       | Yes | 4  | 20.45 | Moderate |
| <i>Urodacus`Three Springs`</i>                | WAM | -                                    | -   | 1  | 20.45 | Moderate |
| <i>Urodacus`BSCO071`</i>                      | WAM | -                                    | -   | 2  | 30.98 | Moderate |
| <i>Cercophonius michaelsoni</i>               | WAM | Kwongan heath                        | Yes | 1  | 32.61 | Moderate |
| <i>Cercophonius sulcatus</i>                  | WAM | -                                    | -   | 1  | 33.77 | Moderate |
| <i>Urodacus`eneabba`</i>                      | WAM | -                                    | -   | 12 | 35.37 | Moderate |
| <i>Lychas splendens</i>                       | WAM | -                                    | -   | 1  | 57.82 | Low      |
| <b>Pseudoscorpions</b>                        |     |                                      |     |    |       |          |
| <i>Austrochthonius`PSE192, lesueuri`</i>      | WAM | -                                    | -   | 1  | 17.86 | Moderate |
| <i>Protochelifer cavernarum</i>               | WAM | -                                    | -   | 17 | 31.00 | Moderate |
| <b>Millipedes</b>                             |     |                                      |     |    |       |          |
| <i>Antichiropus`DIP076`</i>                   | WAM | Low heath on low lateritic breakaway | Yes | 3  | 14.97 | High     |
| <i>Antichiropus`DIP078`</i>                   | WAM | Kwongan heath                        | Yes | 9  | 17.86 | Moderate |
| <i>Antichiropus sulcatus</i>                  | WAM | -                                    | -   | 22 | 17.86 | Moderate |
| <i>Antichiropus`DIP169`</i>                   | WAM | -                                    | -   | 4  | 25.26 | Moderate |
| <i>Antichiropus`DIP107, Mt Lesueur2, ML2`</i> | WAM | -                                    | -   | 9  | 38.69 | Moderate |
| <i>Antichiropus`DIP106, ML1, Mt Lesueur1`</i> | WAM | Wandoo woodland, Shale sandstone     | Yes | 6  | 48.84 | Moderate |
| <i>Antichiropus`DIP115/DIP199 pintharuka`</i> | WAM | -                                    | -   | 2  | 49.23 | Moderate |
| <i>Antichiropus`DIP144, PK1`</i>              | WAM | -                                    | -   | 5  | 49.23 | Moderate |
| <i>Antichiropus`DIP115, PM1`</i>              | WAM | -                                    | -   | 1  | 49.34 | Moderate |
| <b>Crustacea</b>                              |     |                                      |     |    |       |          |
| <i>Buddelundia opaca</i>                      | WAM | -                                    | -   | 3  | 48.84 | Moderate |
| <b>Snails</b>                                 |     |                                      |     |    |       |          |
| <i>Bothriembryon perobesus</i>                | WAM | Hilltop, limestone ridge             | Yes | 50 | 8.14  | High     |

|                               |     |                                      |     |   |       |          |
|-------------------------------|-----|--------------------------------------|-----|---|-------|----------|
| <i>Cochlicella acuta</i>      | WAM | Limestone ridge                      | Yes | 1 | 40.99 | Moderate |
| <i>Theba pisana</i>           | WAM | Limestone ridge                      | Yes | 1 | 40.99 | Moderate |
| <i>Pupilla australis</i>      | WAM | Surface of sand hill with low shrubs | Yes | 1 | 56.44 | Low      |
| <i>Gastrocopta margaretae</i> | WAM | -                                    | -   | 1 | 57.57 | Low      |
| <i>Bothriembryon bulla</i>    | WAM | -                                    | -   | 3 | 58.36 | Low      |
| <i>Bothriembryon whitleyi</i> | WAM | -                                    | -   | 1 | 61.67 | Low      |

# Appendix E      Black-Cockatoo Tree Assessments

| Tree ID | Category | Breeding Tree Type | Tree Species                    | Diameter at Breast Height (mm) | Hollows over 50 mm | Hollows under 50 mm | Notes                             | Easting     | Northing    | Coordinate Reference System |
|---------|----------|--------------------|---------------------------------|--------------------------------|--------------------|---------------------|-----------------------------------|-------------|-------------|-----------------------------|
| Roost   | Roosting | Roost              | <i>Eucalyptus camaldulensis</i> | 450                            | 0                  | 0                   | Confirmed Carnaby Roost location. | 349432.18   | 6725757.15  | EPSG:28350                  |
| 47      | Breeding | Suitable           | Eucalyptus accedens             | 440                            | 2                  | 1                   |                                   | 352183.4272 | 6725038.617 | EPSG:28350                  |
| 49      | Breeding | Suitable           | Eucalyptus accedens             | 400                            | 1                  | 0                   |                                   | 352192.8608 | 6725064.043 | EPSG:28350                  |
| 51      | Breeding | Suitable           | Eucalyptus accedens             | 430                            | 1                  | 0                   |                                   | 352202.8231 | 6725072.651 | EPSG:28350                  |
| 60      | Breeding | Suitable           | Eucalyptus accedens             | 400                            | 2                  | 0                   |                                   | 352258.64   | 6725148.663 | EPSG:28350                  |
| 64      | Breeding | Suitable           | Eucalyptus accedens             | 320                            | 1                  | 0                   |                                   | 352329.9818 | 6725233.112 | EPSG:28350                  |
| 76      | Breeding | Suitable           | Eucalyptus accedens             | 340                            | 2                  | 0                   |                                   | 352467.4198 | 6725281.854 | EPSG:28350                  |
| 80      | Breeding | Suitable           | Eucalyptus accedens             | 320                            | 1                  | 0                   |                                   | 352483.8686 | 6725323.067 | EPSG:28350                  |
| 84      | Breeding | Suitable           | Eucalyptus accedens             | 440                            | 2                  | 0                   |                                   | 352512.6135 | 6725283.478 | EPSG:28350                  |
| 87      | Breeding | Suitable           | Eucalyptus accedens             | 490                            | 1                  | 0                   |                                   | 352544.861  | 6725288.839 | EPSG:28350                  |
| 103     | Breeding | Suitable           | Eucalyptus accedens             | 400                            | 1                  | 0                   | Large verticals hollow - 4 m high | 352191.1191 | 6724976.025 | EPSG:28350                  |
| 105     | Breeding | Suitable           | Eucalyptus accedens             | 350                            | 1                  | 0                   |                                   | 352183.3893 | 6724999.73  | EPSG:28350                  |
| 105     | Breeding | Suitable           | Eucalyptus camaldulensis        | 1050                           | 2                  | 1                   |                                   | 347810.8271 | 6724888.322 | EPSG:28350                  |
| 107     | Breeding | Suitable           | Eucalyptus accedens             | 630                            | 1                  | 0                   |                                   | 352241.713  | 6725051.921 | EPSG:28350                  |
| 109     | Breeding | Suitable           | Eucalyptus accedens             | 490                            | 1                  | 0                   | Large vertical hollow             | 352252.9254 | 6725074.34  | EPSG:28350                  |
| 112     | Breeding | Suitable           | Eucalyptus accedens             | 590                            | 1                  | 0                   |                                   | 352280.7047 | 6725111.749 | EPSG:28350                  |
| 113     | Breeding | Suitable           | Eucalyptus accedens             | 400                            | 1                  | 0                   | Large verticals hollow 3-4m       | 352285.9415 | 6725113.689 | EPSG:28350                  |
| 119     | Breeding | Suitable           | Eucalyptus accedens             | 400                            | 1                  | 0                   |                                   | 352360.074  | 6725170.32  | EPSG:28350                  |
| 121     | Breeding | Suitable           | Eucalyptus accedens             | 470                            | 1                  | 0                   |                                   | 352379.4412 | 6725188.407 | EPSG:28350                  |
| 122     | Breeding | Suitable           | Eucalyptus accedens             | 430                            | 1                  | 0                   |                                   | 352419.1124 | 6725198.358 | EPSG:28350                  |
| 124     | Breeding | Suitable           | Eucalyptus accedens             | 300                            | 1                  | 1                   |                                   | 352426.2261 | 6725212.62  | EPSG:28350                  |
| 124     | Breeding | Suitable           | Eucalyptus accedens             | 490                            | 1                  | 0                   | Large vertical hollow             | 351960.3626 | 6724779.163 | EPSG:28350                  |
| 125     | Breeding | Suitable           | Eucalyptus camaldulensis        | 430                            | 1                  | 3                   |                                   | 347762.9947 | 6724866.216 | EPSG:28350                  |
| 126     | Breeding | Suitable           | Eucalyptus accedens             | 670                            | 2                  | 0                   | Two large verticals hollows       | 352453.418  | 6725233.321 | EPSG:28350                  |
| 127     | Breeding | Suitable           | Eucalyptus accedens             | 420                            | 1                  | 0                   |                                   | 352449.746  | 6725233.94  | EPSG:28350                  |
| 128     | Breeding | Suitable           | Eucalyptus accedens             | 420                            | 2                  | 0                   |                                   | 352443.7112 | 6725241.059 | EPSG:28350                  |
| 129     | Breeding | Suitable           | Eucalyptus accedens             | 430                            | 1                  | 0                   |                                   | 352454.1206 | 6725256.144 | EPSG:28350                  |
| 131     | Breeding | Suitable           | Eucalyptus accedens             | 450                            | 2                  | 0                   |                                   | 352462.8221 | 6725258.127 | EPSG:28350                  |
| 133     | Breeding | Suitable           | Eucalyptus accedens             | 300                            | 1                  | 0                   |                                   | 352467.5726 | 6725245.54  | EPSG:28350                  |
| 134     | Breeding | Suitable           | Eucalyptus accedens             | 400                            | 6                  | 0                   |                                   | 352471.0725 | 6725245.348 | EPSG:28350                  |
| 135     | Breeding | Suitable           | Eucalyptus accedens             | 500                            | 1                  | 0                   |                                   | 352476.585  | 6725258.876 | EPSG:28350                  |
| 136     | Breeding | Suitable           | Eucalyptus accedens             | 340                            | 2                  | 0                   |                                   | 352470.3575 | 6725267.282 | EPSG:28350                  |
| 137     | Breeding | Suitable           | Eucalyptus accedens             | 480                            | 2                  | 0                   |                                   | 352477.3951 | 6725274.904 | EPSG:28350                  |
| 138     | Breeding | Suitable           | Eucalyptus accedens             | 620                            | 6                  | 0                   |                                   | 352496.8318 | 6725274.391 | EPSG:28350                  |
| 140     | Breeding | Suitable           | Eucalyptus accedens             | 300                            | 2                  | 0                   |                                   | 352514.3151 | 6725274.839 | EPSG:28350                  |
| 142     | Breeding | Suitable           | Eucalyptus accedens             | 430                            | 1                  | 0                   |                                   | 352491.7442 | 6725261.341 | EPSG:28350                  |
| 143     | Breeding | Suitable           | Eucalyptus accedens             | 350                            | 1                  | 0                   |                                   | 352487.8592 | 6725250.703 | EPSG:28350                  |
| 145     | Breeding | Suitable           | Eucalyptus accedens             | 400                            | 1                  | 0                   |                                   | 352500.0663 | 6725233.495 | EPSG:28350                  |
| 148     | Breeding | Suitable           | Eucalyptus accedens             | 450                            | 1                  | 0                   |                                   | 352546.0168 | 6725245.07  | EPSG:28350                  |
| 149     | Breeding | Suitable           | Eucalyptus accedens             | 610                            | 5                  | 1                   |                                   | 352137.1734 | 6724859.556 | EPSG:28350                  |
| 150     | Breeding | Suitable           | Eucalyptus accedens             | 460                            | 7                  | 0                   |                                   | 352121.3353 | 6724899.115 | EPSG:28350                  |
| 151     | Breeding | Suitable           | Eucalyptus accedens             | 350                            | 3                  | 2                   |                                   | 352113.1737 | 6724914.215 | EPSG:28350                  |
| 152     | Breeding | Suitable           | Eucalyptus accedens             | 350                            | 3                  | 0                   |                                   | 352107.6586 | 6724915.227 | EPSG:28350                  |
| 154     | Breeding | Suitable           | Eucalyptus accedens             | 570                            | 1                  | 0                   |                                   | 352187.262  | 6724866.083 | EPSG:28350                  |
| 156     | Breeding | Suitable           | Eucalyptus accedens             | 400                            | 1                  | 0                   |                                   | 352211.285  | 6724866.837 | EPSG:28350                  |
| 158     | Breeding | Suitable           | Eucalyptus accedens             | 320                            | 1                  | 0                   |                                   | 352311.0311 | 6725088.443 | EPSG:28350                  |
| 160     | Breeding | Suitable           | Eucalyptus accedens             | 300                            | 1                  | 1                   |                                   | 352330.5589 | 6725095.338 | EPSG:28350                  |
| 161     | Breeding | Suitable           | Eucalyptus accedens             | 300                            | 2                  | 0                   |                                   | 352346.4045 | 6725105.83  | EPSG:28350                  |
| 163     | Breeding | Suitable           | Eucalyptus accedens             | 430                            | 1                  | 0                   |                                   | 352387.1661 | 6725105.006 | EPSG:28350                  |
| 166     | Breeding | Suitable           | Eucalyptus accedens             | 770                            | 1                  | 3                   |                                   | 352385.5985 | 6725064.082 | EPSG:28350                  |
| 167     | Breeding | Suitable           | Eucalyptus accedens             | 720                            | 1                  | 0                   |                                   | 352409.1916 | 6725105.029 | EPSG:28350                  |
| 168     | Breeding | Suitable           | Eucalyptus accedens             | 300                            | 1                  | 0                   |                                   | 352420.0874 | 6725106.927 | EPSG:28350                  |
| 171     | Breeding | Suitable           | Eucalyptus accedens             | 360                            | 2                  | 0                   |                                   | 352428.1547 | 6725163.22  | EPSG:28350                  |
| 172     | Breeding | Suitable           | Eucalyptus accedens             | 350                            | 1                  | 3                   |                                   | 352429.3274 | 6725164.36  | EPSG:28350                  |
| 176     | Breeding | Suitable           | Eucalyptus accedens             | 340                            | 3                  | 0                   |                                   | 352559.0978 | 6725194.78  | EPSG:28350                  |
| 177     | Breeding | Suitable           | Eucalyptus accedens             | 370                            | 4                  | 0                   |                                   | 352576.5016 | 6725227.707 | EPSG:28350                  |
| 178     | Breeding | Suitable           | Eucalyptus accedens             | 360                            | 3                  | 0                   |                                   | 352594.1202 | 6725224.861 | EPSG:28350                  |
| 180     | Breeding | Suitable           | Eucalyptus accedens             | 400                            | 1                  | 1                   |                                   | 352703.531  | 6725261.292 | EPSG:28350                  |

|     |          |          |                     |     |   |   |                       |             |             |            |
|-----|----------|----------|---------------------|-----|---|---|-----------------------|-------------|-------------|------------|
| 181 | Breeding | Suitable | Eucalyptus accedens | 460 | 1 | 1 |                       | 352705.9298 | 6725266.604 | EPSG:28350 |
| 184 | Breeding | Suitable | Eucalyptus accedens | 420 | 3 | 0 |                       | 352707.7312 | 6725286.705 | EPSG:28350 |
| 185 | Breeding | Suitable | Eucalyptus accedens | 300 | 1 | 0 |                       | 352713.1445 | 6725298.365 | EPSG:28350 |
| 189 | Breeding | Suitable | Eucalyptus accedens | 360 | 1 | 0 |                       | 352700.0843 | 6725244.309 | EPSG:28350 |
| 193 | Breeding | Suitable | Eucalyptus accedens | 360 | 2 | 0 |                       | 352698.4046 | 6725237.097 | EPSG:28350 |
| 193 | Breeding | Suitable | Eucalyptus accedens | 420 | 3 | 2 |                       | 352698.8643 | 6725224.648 | EPSG:28350 |
| 194 | Breeding | Suitable | Eucalyptus accedens | 450 | 2 | 0 |                       | 352729.567  | 6725218.306 | EPSG:28350 |
| 195 | Breeding | Suitable | Eucalyptus accedens | 450 | 1 | 0 |                       | 352733.493  | 6725211.519 | EPSG:28350 |
| 196 | Breeding | Suitable | Eucalyptus accedens | 420 | 1 | 1 |                       | 352729.5932 | 6725202.323 | EPSG:28350 |
| 197 | Breeding | Suitable | Eucalyptus accedens | 420 | 2 | 1 |                       | 352733.2664 | 6725196.94  | EPSG:28350 |
| 199 | Breeding | Suitable | Eucalyptus accedens | 380 | 1 | 0 |                       | 352740.5537 | 6725180.11  | EPSG:28350 |
| 200 | Breeding | Suitable | Eucalyptus accedens | 320 | 1 | 0 |                       | 352703.1555 | 6725184.926 | EPSG:28350 |
| 201 | Breeding | Suitable | Eucalyptus accedens | 400 | 2 | 0 |                       | 352706.6307 | 6725194.551 | EPSG:28350 |
| 204 | Breeding | Suitable | Eucalyptus accedens | 500 | 2 | 0 | Had a barn owl in it  | 352670.7479 | 6725191.319 | EPSG:28350 |
| 205 | Breeding | Suitable | Eucalyptus accedens | 470 | 3 | 0 |                       | 352678.0562 | 6725206.265 | EPSG:28350 |
| 206 | Breeding | Suitable | Eucalyptus accedens | 620 | 2 | 0 |                       | 352666.1652 | 6725223.979 | EPSG:28350 |
| 208 | Breeding | Suitable | Eucalyptus accedens | 360 | 1 | 0 |                       | 352656.0317 | 6725212.19  | EPSG:28350 |
| 209 | Breeding | Suitable | Eucalyptus accedens | 320 | 1 | 0 |                       | 352667.2665 | 6725185.867 | EPSG:28350 |
| 210 | Breeding | Suitable | Eucalyptus accedens | 360 | 1 | 0 |                       | 352659.7052 | 6725183.7   | EPSG:28350 |
| 211 | Breeding | Suitable | Eucalyptus accedens | 460 | 1 | 0 |                       | 352641.8942 | 6725185.172 | EPSG:28350 |
| 212 | Breeding | Suitable | Eucalyptus accedens | 420 | 3 | 1 |                       | 352646.3794 | 6725184.382 | EPSG:28350 |
| 213 | Breeding | Suitable | Eucalyptus accedens | 320 | 1 | 0 |                       | 352642.1524 | 6725180.387 | EPSG:28350 |
| 214 | Breeding | Suitable | Eucalyptus accedens | 330 | 1 | 0 |                       | 352639.7166 | 6725170.797 | EPSG:28350 |
| 215 | Breeding | Suitable | Eucalyptus accedens | 300 | 1 | 0 |                       | 352641.6551 | 6725164.365 | EPSG:28350 |
| 217 | Breeding | Suitable | Eucalyptus accedens | 480 | 1 | 0 |                       | 352652.9046 | 6725149.533 | EPSG:28350 |
| 218 | Breeding | Suitable | Eucalyptus accedens | 500 | 1 | 0 |                       | 352692.6949 | 6725170.519 | EPSG:28350 |
| 221 | Breeding | Suitable | Eucalyptus accedens | 440 | 6 | 3 |                       | 352725.5319 | 6725156.959 | EPSG:28350 |
| 222 | Breeding | Suitable | Eucalyptus accedens | 370 | 2 | 0 |                       | 352726.2856 | 6725153.651 | EPSG:28350 |
| 223 | Breeding | Suitable | Eucalyptus accedens | 980 | 5 | 2 |                       | 352749.2509 | 6725146.013 | EPSG:28350 |
| 224 | Breeding | Suitable | Eucalyptus accedens | 510 | 1 | 3 |                       | 352743.5849 | 6725126.706 | EPSG:28350 |
| 227 | Breeding | Suitable | Eucalyptus accedens | 440 | 3 | 0 |                       | 352728.7723 | 6725121.673 | EPSG:28350 |
| 230 | Breeding | Suitable | Eucalyptus accedens | 710 | 1 | 0 |                       | 352710.5493 | 6725129.906 | EPSG:28350 |
| 231 | Breeding | Suitable | Eucalyptus accedens | 460 | 1 | 6 |                       | 352705.4126 | 6725124.173 | EPSG:28350 |
| 238 | Breeding | Suitable | Eucalyptus accedens | 440 | 1 | 0 |                       | 352675.917  | 6725145.651 | EPSG:28350 |
| 239 | Breeding | Suitable | Eucalyptus accedens | 340 | 4 | 3 |                       | 352685.8963 | 6725145.72  | EPSG:28350 |
| 240 | Breeding | Suitable | Eucalyptus accedens | 560 | 1 | 2 |                       | 352656.6439 | 6725146.989 | EPSG:28350 |
| 244 | Breeding | Suitable | Eucalyptus accedens | 310 | 2 | 0 |                       | 352635.4655 | 6725120.486 | EPSG:28350 |
| 245 | Breeding | Suitable | Eucalyptus accedens | 300 | 2 | 4 |                       | 352627.2731 | 6725149.47  | EPSG:28350 |
| 245 | Breeding | Suitable | Eucalyptus accedens | 380 | 1 | 0 |                       | 351915.5546 | 6724789.72  | EPSG:28350 |
| 246 | Breeding | Suitable | Eucalyptus accedens | 410 | 2 | 3 |                       | 352623.404  | 6725171.42  | EPSG:28350 |
| 249 | Breeding | Suitable | Eucalyptus accedens | 340 | 1 | 1 |                       | 352616.8802 | 6725199.554 | EPSG:28350 |
| 251 | Breeding | Suitable | Eucalyptus accedens | 350 | 1 | 0 |                       | 352585.9926 | 6725193.09  | EPSG:28350 |
| 252 | Breeding | Suitable | Eucalyptus accedens | 430 | 5 | 2 |                       | 352605.2545 | 6725166.872 | EPSG:28350 |
| 253 | Breeding | Suitable | Eucalyptus accedens | 340 | 1 | 0 |                       | 352602.2164 | 6725149.224 | EPSG:28350 |
| 254 | Breeding | Suitable | Eucalyptus accedens | 830 | 1 | 0 |                       | 352604.0275 | 6725120.7   | EPSG:28350 |
| 263 | Breeding | Suitable | Eucalyptus accedens | 770 | 1 | 0 |                       | 352573.5617 | 6725115.445 | EPSG:28350 |
| 264 | Breeding | Suitable | Eucalyptus accedens | 640 | 1 | 0 |                       | 352578.1596 | 6725134.501 | EPSG:28350 |
| 265 | Breeding | Suitable | Eucalyptus accedens | 360 | 3 | 2 |                       | 352593.3313 | 6725153.213 | EPSG:28350 |
| 265 | Breeding | Suitable | Eucalyptus accedens | 450 | 1 | 0 |                       | 352586.9439 | 6725153.165 | EPSG:28350 |
| 267 | Breeding | Suitable | Eucalyptus accedens | 310 | 1 | 0 |                       | 352574.4035 | 6725172.564 | EPSG:28350 |
| 268 | Breeding | Suitable | Eucalyptus accedens | 300 | 1 | 2 |                       | 352562.6333 | 6725173.576 | EPSG:28350 |
| 275 | Breeding | Suitable | Eucalyptus accedens | 380 | 2 | 0 |                       | 352462.2725 | 6725134.914 | EPSG:28350 |
| 277 | Breeding | Suitable | Eucalyptus accedens | 450 | 1 | 0 |                       | 352486.4916 | 6725125.098 | EPSG:28350 |
| 277 | Breeding | Suitable | Eucalyptus accedens | 450 | 1 | 0 | Large vertical hollow | 352486.4916 | 6725125.098 | EPSG:28350 |
| 280 | Breeding | Suitable | Eucalyptus accedens | 380 | 2 | 0 |                       | 352492.0956 | 6725098.696 | EPSG:28350 |
| 290 | Breeding | Suitable | Eucalyptus accedens | 500 | 3 | 6 |                       | 351995.2015 | 6724851.935 | EPSG:28350 |
| 291 | Breeding | Suitable | Eucalyptus accedens | 330 | 1 | 0 |                       | 351988.2533 | 6724843.393 | EPSG:28350 |
| 293 | Breeding | Suitable | Eucalyptus accedens | 380 | 1 | 0 |                       | 351972.5726 | 6724845.449 | EPSG:28350 |
| 294 | Breeding | Suitable | Eucalyptus accedens | 420 | 1 | 3 |                       | 351980.0109 | 6724859.963 | EPSG:28350 |
| 297 | Breeding | Suitable | Eucalyptus accedens | 330 | 1 | 0 |                       | 351961.2727 | 6724841.148 | EPSG:28350 |
| 298 | Breeding | Suitable | Eucalyptus accedens | 350 | 2 | 2 |                       | 351948.2066 | 6724849.447 | EPSG:28350 |
| 299 | Breeding | Suitable | Eucalyptus accedens | 330 | 3 | 1 |                       | 351912.2721 | 6724856.364 | EPSG:28350 |
| 300 | Breeding | Suitable | Eucalyptus accedens | 760 | 1 | 2 |                       | 351911.968  | 6724857.289 | EPSG:28350 |
| 304 | Breeding | Suitable | Eucalyptus accedens | 370 | 1 | 2 |                       | 351866.9583 | 6724814.045 | EPSG:28350 |
| 305 | Breeding | Suitable | Eucalyptus accedens | 420 | 3 | 1 |                       | 351869.9962 | 6724817.363 | EPSG:28350 |

|     |          |          |                          |      |   |   |                             |             |             |            |
|-----|----------|----------|--------------------------|------|---|---|-----------------------------|-------------|-------------|------------|
| 308 | Breeding | Suitable | Eucalyptus accedens      | 980  | 2 | 0 |                             | 351887.1205 | 6724813.046 | EPSG:28350 |
| 309 | Breeding | Suitable | Eucalyptus accedens      | 320  | 1 | 4 |                             | 351912.5387 | 6724827.515 | EPSG:28350 |
| 311 | Breeding | Suitable | Eucalyptus accedens      | 400  | 3 | 1 |                             | 351927.5357 | 6724824.733 | EPSG:28350 |
| 322 | Breeding | Suitable | Eucalyptus accedens      | 480  | 1 | 4 |                             | 351973.1989 | 6724796.573 | EPSG:28350 |
| 323 | Breeding | Suitable | Eucalyptus accedens      | 500  | 1 | 0 |                             | 351961.4529 | 6724787.049 | EPSG:28350 |
| 327 | Breeding | Suitable | Eucalyptus accedens      | 430  | 1 | 4 |                             | 351957.3485 | 6724735.312 | EPSG:28350 |
| 329 | Breeding | Suitable | Eucalyptus accedens      | 490  | 3 | 4 |                             | 351948.9803 | 6724716.18  | EPSG:28350 |
| 330 | Breeding | Suitable | Eucalyptus accedens      | 590  | 5 | 3 |                             | 351937.4482 | 6724711.514 | EPSG:28350 |
| 332 | Breeding | Suitable | Eucalyptus accedens      | 430  | 1 | 2 |                             | 351945.5608 | 6724749.369 | EPSG:28350 |
| 334 | Breeding | Suitable | Eucalyptus accedens      | 340  | 1 | 3 |                             | 351931.1148 | 6724758.959 | EPSG:28350 |
| 335 | Breeding | Suitable | Eucalyptus accedens      | 380  | 2 | 2 |                             | 351923.2925 | 6724758.621 | EPSG:28350 |
| 337 | Breeding | Suitable | Eucalyptus accedens      | 520  | 1 | 0 |                             | 351908.1154 | 6724735.384 | EPSG:28350 |
| 338 | Breeding | Suitable | Eucalyptus accedens      | 500  | 1 | 1 |                             | 351902.4126 | 6724746.493 | EPSG:28350 |
| 340 | Breeding | Suitable | Eucalyptus accedens      | 370  | 2 | 1 |                             | 351898.2866 | 6724775.128 | EPSG:28350 |
| 341 | Breeding | Suitable | Eucalyptus accedens      | 460  | 2 | 2 |                             | 351887.2927 | 6724774.352 | EPSG:28350 |
| 344 | Breeding | Suitable | Eucalyptus accedens      | 380  | 1 | 3 |                             | 351913.1014 | 6724791.903 | EPSG:28350 |
| 346 | Breeding | Suitable | Eucalyptus accedens      | 620  | 1 | 1 |                             | 351916.3532 | 6724800.857 | EPSG:28350 |
| 351 | Breeding | Suitable | Eucalyptus accedens      | 420  | 2 | 0 |                             | 352260.1327 | 6724628.762 | EPSG:28350 |
| 356 | Breeding | Suitable | Eucalyptus accedens      | 630  | 2 | 0 | Large spout hollow          | 352284.8671 | 6724620.659 | EPSG:28350 |
| 359 | Breeding | Suitable | Eucalyptus camaldulensis | 860  | 3 | 2 |                             | 351013.8675 | 6724527.471 | EPSG:28350 |
| 361 | Breeding | Suitable | Eucalyptus camaldulensis | 670  | 1 | 2 |                             | 350995.67   | 6724514.522 | EPSG:28350 |
| 366 | Breeding | Suitable | Eucalyptus camaldulensis | 550  | 1 | 0 |                             | 350993.4991 | 6724473.764 | EPSG:28350 |
| 369 | Breeding | Suitable | Eucalyptus camaldulensis | 970  | 1 | 0 | Good vertical hollow        | 351066.1691 | 6724462.062 | EPSG:28350 |
| 373 | Breeding | Suitable | Eucalyptus accedens      | 350  | 1 | 5 |                             | 349767.2964 | 6727431.378 | EPSG:28350 |
| 375 | Breeding | Suitable | Eucalyptus accedens      | 330  | 1 | 0 |                             | 349743.2317 | 6727417.71  | EPSG:28350 |
| 376 | Breeding | Suitable | Eucalyptus accedens      | 420  | 1 | 0 |                             | 349741.2563 | 6727411.31  | EPSG:28350 |
| 377 | Breeding | Suitable | Eucalyptus accedens      | 380  | 3 | 2 |                             | 349745.5587 | 6727398.285 | EPSG:28350 |
| 378 | Breeding | Suitable | Eucalyptus accedens      | 440  | 1 | 0 |                             | 349736.9066 | 6727403.182 | EPSG:28350 |
| 380 | Breeding | Suitable | Eucalyptus accedens      | 320  | 1 | 1 |                             | 349719.826  | 6727394.25  | EPSG:28350 |
| 381 | Breeding | Suitable | Eucalyptus accedens      | 520  | 3 | 0 |                             | 349731.6425 | 6727372.581 | EPSG:28350 |
| 383 | Breeding | Suitable | Eucalyptus accedens      | 590  | 1 | 3 |                             | 349696.3877 | 6727376.07  | EPSG:28350 |
| 384 | Breeding | Suitable | Eucalyptus accedens      | 640  | 4 | 0 |                             | 349698.1178 | 6727398.252 | EPSG:28350 |
| 385 | Breeding | Suitable | Eucalyptus accedens      | 650  | 2 | 0 |                             | 349702.0582 | 6727413.684 | EPSG:28350 |
| 386 | Breeding | Suitable | Eucalyptus accedens      | 400  | 1 | 0 |                             | 349713.9374 | 6727413.082 | EPSG:28350 |
| 387 | Breeding | Suitable | Eucalyptus accedens      | 360  | 2 | 0 |                             | 349717.2757 | 6727415.168 | EPSG:28350 |
| 388 | Breeding | Suitable | Eucalyptus accedens      | 400  | 1 | 0 | Good vertical hollow        | 349712.0921 | 6727433.404 | EPSG:28350 |
| 390 | Breeding | Suitable | Eucalyptus accedens      | 380  | 2 | 0 |                             | 349728.1182 | 6727426.658 | EPSG:28350 |
| 391 | Breeding | Suitable | Eucalyptus accedens      | 400  | 3 | 1 |                             | 349726.7219 | 6727423.206 | EPSG:28350 |
| 392 | Breeding | Suitable | Eucalyptus accedens      | 810  | 1 | 0 |                             | 349638.0069 | 6727433.611 | EPSG:28350 |
| 393 | Breeding | Suitable | Eucalyptus accedens      | 340  | 1 | 0 |                             | 349586.9097 | 6727403.032 | EPSG:28350 |
| 394 | Breeding | Suitable | Eucalyptus accedens      | 430  | 1 | 1 |                             | 349538.2478 | 6727374.189 | EPSG:28350 |
| 395 | Breeding | Suitable | Eucalyptus accedens      | 550  | 1 | 0 |                             | 349545.1196 | 6727327.076 | EPSG:28350 |
| 396 | Breeding | Suitable | Eucalyptus accedens      | 540  | 1 | 0 |                             | 349565.7644 | 6727346.46  | EPSG:28350 |
| 397 | Breeding | Suitable | Eucalyptus accedens      | 740  | 1 | 0 |                             | 349636.18   | 6727350.63  | EPSG:28350 |
| 398 | Breeding | Suitable | Eucalyptus accedens      | 590  | 3 | 0 |                             | 349656.3617 | 6727359.727 | EPSG:28350 |
| 399 | Breeding | Suitable | Eucalyptus accedens      | 540  | 1 | 0 |                             | 349671.888  | 6727369.48  | EPSG:28350 |
| 400 | Breeding | Suitable | Eucalyptus accedens      | 470  | 2 | 1 |                             | 349675.6376 | 6727364.182 | EPSG:28350 |
| 401 | Breeding | Suitable | Eucalyptus camaldulensis | 600  | 1 | 0 |                             | 347415.8166 | 6724235.939 | EPSG:28350 |
| 407 | Breeding | Suitable | Eucalyptus camaldulensis | 220  | 4 | 3 | Tree to check. Hollows 20 m | 347397.552  | 6724211.985 | EPSG:28350 |
| 408 | Breeding | Suitable | Eucalyptus accedens      | 480  | 1 | 1 |                             | 348826.2821 | 6727625.112 | EPSG:28350 |
| 409 | Breeding | Suitable | Eucalyptus camaldulensis | 1170 | 2 | 2 |                             | 347432.2358 | 6724203.593 | EPSG:28350 |
| 411 | Breeding | Suitable | Eucalyptus camaldulensis | 550  | 3 | 0 |                             | 347429.8753 | 6724216.813 | EPSG:28350 |
| 413 | Breeding | Suitable | Eucalyptus camaldulensis | 800  | 2 | 0 |                             | 347433.5422 | 6724233.555 | EPSG:28350 |
| 414 | Breeding | Suitable | Eucalyptus camaldulensis | 1000 | 1 | 0 |                             | 347450.5694 | 6724232.545 | EPSG:28350 |
| 415 | Breeding | Suitable | Eucalyptus camaldulensis | 550  | 1 | 1 |                             | 347451.141  | 6724234.21  | EPSG:28350 |
| 416 | Breeding | Suitable | Eucalyptus camaldulensis | 1070 | 2 | 2 |                             | 347458.4066 | 6724235.817 | EPSG:28350 |
| 418 | Breeding | Suitable | Eucalyptus camaldulensis | 520  | 1 | 0 |                             | 347443.7342 | 6724249.328 | EPSG:28350 |
| 420 | Breeding | Suitable | Eucalyptus camaldulensis | 1090 | 3 | 2 |                             | 347435.3358 | 6724255.075 | EPSG:28350 |
| 422 | Breeding | Suitable | Eucalyptus camaldulensis | 710  | 2 | 1 |                             | 347430.9759 | 6724262.959 | EPSG:28350 |
| 424 | Breeding | Suitable | Eucalyptus accedens      | 360  | 1 | 0 |                             | 348868.271  | 6727622.196 | EPSG:28350 |

|     |          |          |                          |      |   |   |             |             |             |            |
|-----|----------|----------|--------------------------|------|---|---|-------------|-------------|-------------|------------|
| 426 | Breeding | Suitable | Eucalyptus camaldulensis | 1460 | 2 | 0 | Big hollows | 347447.5545 | 6724156.918 | EPSG:28350 |
| 427 | Breeding | Suitable | Eucalyptus camaldulensis | 1420 | 5 | 0 |             | 347492.0423 | 6724214.929 | EPSG:28350 |
| 428 | Breeding | Suitable | Eucalyptus camaldulensis | 1280 | 3 | 6 |             | 347509.5609 | 6724297.546 | EPSG:28350 |
| 429 | Breeding | Suitable | Eucalyptus camaldulensis | 1080 | 5 | 1 |             | 347367.9215 | 6724392.499 | EPSG:28350 |
| 430 | Breeding | Suitable | Eucalyptus accedens      | 480  | 3 | 2 |             | 348799.6638 | 6727529.718 | EPSG:28350 |
| 430 | Breeding | Suitable | Eucalyptus camaldulensis | 1460 | 2 | 2 |             | 347352.6538 | 6724356.108 | EPSG:28350 |
| 431 | Breeding | Suitable | Eucalyptus camaldulensis | 760  | 5 | 0 |             | 347335.7835 | 6724338.65  | EPSG:28350 |
| 432 | Breeding | Suitable | Eucalyptus camaldulensis | 970  | 3 | 0 |             | 347304.9697 | 6724353.982 | EPSG:28350 |
| 433 | Breeding | Suitable | Eucalyptus camaldulensis | 590  | 1 | 2 |             | 347423.2032 | 6724490.071 | EPSG:28350 |
| 434 | Breeding | Suitable | Eucalyptus camaldulensis | 1090 | 3 | 0 |             | 347463.4796 | 6724452.964 | EPSG:28350 |
| 435 | Breeding | Suitable | Eucalyptus camaldulensis | 1530 | 2 | 3 |             | 347473.8298 | 6724446.966 | EPSG:28350 |
| 436 | Breeding | Suitable | Eucalyptus camaldulensis | 990  | 3 | 4 |             | 347437.3992 | 6724414.678 | EPSG:28350 |
| 437 | Breeding | Suitable | Eucalyptus camaldulensis | 1000 | 8 | 2 |             | 347424.4294 | 6724421.299 | EPSG:28350 |
| 438 | Breeding | Suitable | Eucalyptus camaldulensis | 1030 | 1 | 3 |             | 347497.7726 | 6724423.393 | EPSG:28350 |
| 439 | Breeding | Suitable | Eucalyptus accedens      | 410  | 2 | 0 |             | 348758.9334 | 6727531.11  | EPSG:28350 |
| 439 | Breeding | Suitable | Eucalyptus camaldulensis | 1020 | 1 | 0 |             | 347542.5766 | 6724484.904 | EPSG:28350 |
| 440 | Breeding | Suitable | Eucalyptus camaldulensis | 1220 | 4 | 0 |             | 347538.949  | 6724498.744 | EPSG:28350 |
| 441 | Breeding | Suitable | Eucalyptus camaldulensis | 1510 | 4 | 2 |             | 347558.404  | 6724512.809 | EPSG:28350 |
| 442 | Breeding | Suitable | Eucalyptus camaldulensis | 1190 | 2 | 4 |             | 347568.6419 | 6724515.329 | EPSG:28350 |
| 443 | Breeding | Suitable | Eucalyptus camaldulensis | 1250 | 8 | 0 |             | 347616.7874 | 6724513.927 | EPSG:28350 |
| 444 | Breeding | Suitable | Eucalyptus camaldulensis | 1940 | 4 | 1 |             | 347159.7367 | 6724487.101 | EPSG:28350 |
| 445 | Breeding | Suitable | Eucalyptus camaldulensis | 720  | 4 | 0 |             | 347307.788  | 6724300.066 | EPSG:28350 |
| 446 | Breeding | Suitable | Eucalyptus camaldulensis | 950  | 3 | 1 |             | 347327.1389 | 6724277.786 | EPSG:28350 |
| 447 | Breeding | Suitable | Eucalyptus camaldulensis | 1210 | 1 | 1 |             | 347374.7452 | 6724221.82  | EPSG:28350 |
| 448 | Breeding | Suitable | Eucalyptus camaldulensis | 1120 | 3 | 0 |             | 347273.405  | 6724068.798 | EPSG:28350 |
| 449 | Breeding | Suitable | Eucalyptus camaldulensis | 1040 | 4 | 0 |             | 347296.3593 | 6724264.155 | EPSG:28350 |
| 450 | Breeding | Suitable | Eucalyptus camaldulensis | 1260 | 2 | 0 |             | 347309.5918 | 6724270.495 | EPSG:28350 |
| 451 | Breeding | Suitable | Eucalyptus camaldulensis | 860  | 3 | 0 |             | 347108.3508 | 6724648.41  | EPSG:28350 |
| 452 | Breeding | Suitable | Eucalyptus camaldulensis | 1350 | 3 | 0 |             | 347063.3226 | 6724691.509 | EPSG:28350 |
| 453 | Breeding | Suitable | Eucalyptus camaldulensis | 590  | 2 | 0 |             | 347484.3709 | 6724577.992 | EPSG:28350 |
| 454 | Breeding | Suitable | Eucalyptus camaldulensis | 1450 | 4 | 0 |             | 347481.5597 | 6724567.625 | EPSG:28350 |
| 455 | Breeding | Suitable | Eucalyptus camaldulensis | 1260 | 7 | 0 |             | 347479.1509 | 6724561.147 | EPSG:28350 |
| 456 | Breeding | Suitable | Eucalyptus camaldulensis | 750  | 1 | 0 |             | 347465.9202 | 6724541.459 | EPSG:28350 |
| 457 | Breeding | Suitable | Eucalyptus camaldulensis | 1320 | 6 | 0 |             | 347470.9575 | 6724540.923 | EPSG:28350 |
| 458 | Breeding | Suitable | Eucalyptus camaldulensis | 1360 | 6 | 0 |             | 347451.4563 | 6724523.734 | EPSG:28350 |
| 459 | Breeding | Suitable | Eucalyptus camaldulensis | 820  | 2 | 0 |             | 347439.863  | 6724528.999 | EPSG:28350 |
| 460 | Breeding | Suitable | Eucalyptus camaldulensis | 700  | 1 | 0 |             | 347464.8581 | 6724501.3   | EPSG:28350 |
| 461 | Breeding | Suitable | Eucalyptus camaldulensis | 1260 | 3 | 0 |             | 347578.3876 | 6724569.869 | EPSG:28350 |
| 462 | Breeding | Suitable | Eucalyptus camaldulensis | 790  | 2 | 0 |             | 347588.5992 | 6724581.442 | EPSG:28350 |
| 463 | Breeding | Suitable | Eucalyptus camaldulensis | 1560 | 2 | 0 |             | 347602.2734 | 6724569.02  | EPSG:28350 |
| 464 | Breeding | Suitable | Eucalyptus camaldulensis | 1120 | 2 | 1 |             | 347639.3199 | 6724523.14  | EPSG:28350 |
| 465 | Breeding | Suitable | Eucalyptus camaldulensis | 1000 | 2 | 2 |             | 347656.3117 | 6724506.318 | EPSG:28350 |
| 466 | Breeding | Suitable | Eucalyptus camaldulensis | 1200 | 4 | 0 |             | 347679.0231 | 6724487.293 | EPSG:28350 |
| 467 | Breeding | Suitable | Eucalyptus camaldulensis | 600  | 1 | 0 |             | 347720.0469 | 6724530.8   | EPSG:28350 |
| 468 | Breeding | Suitable | Eucalyptus camaldulensis | 208  | 2 | 2 |             | 347753.9936 | 6724580.299 | EPSG:28350 |
| 469 | Breeding | Suitable | Eucalyptus camaldulensis | 690  | 2 | 0 |             | 347717.9575 | 6724596.604 | EPSG:28350 |
| 470 | Breeding | Suitable | Eucalyptus camaldulensis | 1080 | 2 | 0 |             | 347707.607  | 6724608.889 | EPSG:28350 |
| 471 | Breeding | Suitable | Eucalyptus camaldulensis | 1200 | 2 | 1 |             | 347703.4884 | 6724600.383 | EPSG:28350 |

|     |          |          |                          |      |   |   |  |             |             |            |
|-----|----------|----------|--------------------------|------|---|---|--|-------------|-------------|------------|
| 472 | Breeding | Suitable | Eucalyptus camaldulensis | 1300 | 7 | 0 |  | 347695.7556 | 6724588.712 | EPSG:28350 |
| 473 | Breeding | Suitable | Eucalyptus camaldulensis | 1260 | 6 | 2 |  | 347667.885  | 6724593.394 | EPSG:28350 |
| 474 | Breeding | Suitable | Eucalyptus camaldulensis | 750  | 1 | 2 |  | 347603.9632 | 6724644.083 | EPSG:28350 |
| 477 | Breeding | Suitable | Eucalyptus accedens      | 430  | 1 | 0 |  | 350663.9408 | 6727607.938 | EPSG:28350 |
| 478 | Breeding | Suitable | Eucalyptus accedens      | 330  | 1 | 1 |  | 350658.4515 | 6727621.212 | EPSG:28350 |
| 483 | Breeding | Suitable | Eucalyptus accedens      | 700  | 1 | 0 |  | 350712.7222 | 6727630.229 | EPSG:28350 |
| 486 | Breeding | Suitable | Eucalyptus accedens      | 480  | 1 | 0 |  | 350730.3609 | 6727616.438 | EPSG:28350 |
| 487 | Breeding | Suitable | Eucalyptus accedens      | 470  | 1 | 0 |  | 350737.8355 | 6727620.168 | EPSG:28350 |
| 496 | Breeding | Suitable | Eucalyptus accedens      | 540  | 1 | 0 |  | 350700.5914 | 6727623.246 | EPSG:28350 |
| 498 | Breeding | Suitable | Eucalyptus accedens      | 650  | 1 | 0 |  | 350683.8259 | 6727606.733 | EPSG:28350 |
| 499 | Breeding | Suitable | Eucalyptus accedens      | 360  | 1 | 0 |  | 350679.4655 | 6727602.773 | EPSG:28350 |
| 501 | Breeding | Suitable | Eucalyptus accedens      | 470  | 2 | 2 |  | 348801.4576 | 6727649.616 | EPSG:28350 |
| 509 | Breeding | Suitable | Eucalyptus accedens      | 450  | 1 | 0 |  | 348811.9386 | 6727627.225 | EPSG:28350 |
| 510 | Breeding | Suitable | Eucalyptus accedens      | 570  | 1 | 0 |  | 348799.4183 | 6727629.593 | EPSG:28350 |
| 511 | Breeding | Suitable | Eucalyptus accedens      | 380  | 1 | 0 |  | 348796.3317 | 6727616.221 | EPSG:28350 |
| 512 | Breeding | Suitable | Eucalyptus accedens      | 580  | 3 | 0 |  | 348803.6195 | 6727609.709 | EPSG:28350 |
| 513 | Breeding | Suitable | Eucalyptus accedens      | 340  | 3 | 0 |  | 348815.0884 | 6727609.657 | EPSG:28350 |
| 514 | Breeding | Suitable | Eucalyptus accedens      | 390  | 3 | 0 |  | 348813.6366 | 6727587.816 | EPSG:28350 |
| 515 | Breeding | Suitable | Eucalyptus accedens      | 440  | 1 | 0 |  | 348809.1049 | 6727586.208 | EPSG:28350 |
| 516 | Breeding | Suitable | Eucalyptus accedens      | 470  | 2 | 1 |  | 348811.3796 | 6727585.268 | EPSG:28350 |
| 520 | Breeding | Suitable | Eucalyptus accedens      | 410  | 3 | 0 |  | 348838.8698 | 6727572.062 | EPSG:28350 |
| 521 | Breeding | Suitable | Eucalyptus accedens      | 420  | 1 | 0 |  | 348876.9576 | 6727584.029 | EPSG:28350 |
| 522 | Breeding | Suitable | Eucalyptus accedens      | 510  | 1 | 0 |  | 348899.0183 | 6727583.739 | EPSG:28350 |
| 523 | Breeding | Suitable | Eucalyptus accedens      | 300  | 1 | 0 |  | 348883.2512 | 6727602.341 | EPSG:28350 |
| 525 | Breeding | Suitable | Eucalyptus accedens      | 350  | 1 | 0 |  | 348860.3791 | 6727623.297 | EPSG:28350 |
| 526 | Breeding | Suitable | Eucalyptus accedens      | 500  | 1 | 0 |  | 348863.264  | 6727633.156 | EPSG:28350 |
| 527 | Breeding | Suitable | Eucalyptus accedens      | 730  | 3 | 0 |  | 348830.65   | 6727547.997 | EPSG:28350 |
| 528 | Breeding | Suitable | Eucalyptus accedens      | 600  | 2 | 0 |  | 348847.8206 | 6727530.714 | EPSG:28350 |
| 529 | Breeding | Suitable | Eucalyptus accedens      | 600  | 1 | 0 |  | 348805.1425 | 6727529.598 | EPSG:28350 |
| 531 | Breeding | Suitable | Eucalyptus accedens      | 430  | 1 | 0 |  | 348786.5152 | 6727554.346 | EPSG:28350 |
| 532 | Breeding | Suitable | Eucalyptus accedens      | 720  | 1 | 1 |  | 348767.173  | 6727553.321 | EPSG:28350 |
| 533 | Breeding | Suitable | Eucalyptus accedens      | 430  | 1 | 2 |  | 348754.3646 | 6727574.131 | EPSG:28350 |
| 534 | Breeding | Suitable | Eucalyptus accedens      | 490  | 3 | 0 |  | 348731.6703 | 6727551.496 | EPSG:28350 |
| 535 | Breeding | Suitable | Eucalyptus accedens      | 340  | 1 | 1 |  | 348721.5436 | 6727564.365 | EPSG:28350 |
| 536 | Breeding | Suitable | Eucalyptus accedens      | 400  | 2 | 0 |  | 348707.9922 | 6727553.694 | EPSG:28350 |
| 537 | Breeding | Suitable | Eucalyptus accedens      | 510  | 3 | 0 |  | 348730.782  | 6727530.502 | EPSG:28350 |
| 538 | Breeding | Suitable | Eucalyptus accedens      | 420  | 2 | 0 |  | 348747.7838 | 6727529.074 | EPSG:28350 |
| 540 | Breeding | Suitable | Eucalyptus accedens      | 440  | 4 | 0 |  | 348757.534  | 6727527.113 | EPSG:28350 |
| 541 | Breeding | Suitable | Eucalyptus accedens      | 680  | 3 | 0 |  | 348765.067  | 6727478.655 | EPSG:28350 |
| 542 | Breeding | Suitable | Eucalyptus accedens      | 450  | 3 | 0 |  | 348755.8629 | 6727478.242 | EPSG:28350 |
| 543 | Breeding | Suitable | Eucalyptus accedens      | 430  | 1 | 0 |  | 348746.6321 | 6727477.113 | EPSG:28350 |
| 544 | Breeding | Suitable | Eucalyptus accedens      | 410  | 1 | 0 |  | 348745.4209 | 6727488.044 | EPSG:28350 |
| 545 | Breeding | Suitable | Eucalyptus accedens      | 380  | 2 | 0 |  | 348729.845  | 6727482.03  | EPSG:28350 |
| 546 | Breeding | Suitable | Eucalyptus accedens      | 580  | 1 | 0 |  | 348808.2386 | 6727467.583 | EPSG:28350 |
| 547 | Breeding | Suitable | Eucalyptus accedens      | 1050 | 1 | 0 |  | 348816.0723 | 6727467.915 | EPSG:28350 |
| 548 | Breeding | Suitable | Eucalyptus accedens      | 420  | 1 | 0 |  | 348819.1427 | 6727460.795 | EPSG:28350 |
| 549 | Breeding | Suitable | Eucalyptus accedens      | 380  | 2 | 0 |  | 348823.9684 | 6727457.372 | EPSG:28350 |
| 550 | Breeding | Suitable | Eucalyptus accedens      | 740  | 2 | 0 |  | 348803.7104 | 6727406.32  | EPSG:28350 |
| 551 | Breeding | Suitable | Eucalyptus accedens      | 540  | 2 | 0 |  | 348726.1042 | 6727373.584 | EPSG:28350 |
| 552 | Breeding | Suitable | Eucalyptus accedens      | 560  | 3 | 3 |  | 348710.5183 | 6727361.557 | EPSG:28350 |
| 553 | Breeding | Suitable | Eucalyptus accedens      | 550  | 2 | 2 |  | 348707.9371 | 6727385.647 | EPSG:28350 |
| 554 | Breeding | Suitable | Eucalyptus accedens      | 430  | 1 | 0 |  | 348691.2599 | 6727413.545 | EPSG:28350 |
| 555 | Breeding | Suitable | Eucalyptus accedens      | 390  | 1 | 2 |  | 348673.0565 | 6727435.846 | EPSG:28350 |
| 556 | Breeding | Suitable | Eucalyptus accedens      | 700  | 1 | 0 |  | 348646.1934 | 6727443.677 | EPSG:28350 |
| 557 | Breeding | Suitable | Eucalyptus accedens      | 340  | 1 | 0 |  | 348654.4357 | 6727457.82  | EPSG:28350 |
| 558 | Breeding | Suitable | Eucalyptus accedens      | 360  | 1 | 0 |  | 348660.3778 | 6727464.637 | EPSG:28350 |
| 559 | Breeding | Suitable | Eucalyptus accedens      | 490  | 1 | 0 |  | 348652.3636 | 6727468.207 | EPSG:28350 |
| 560 | Breeding | Suitable | Eucalyptus accedens      | 430  | 1 | 0 |  | 348644.5886 | 6727466.045 | EPSG:28350 |
| 561 | Breeding | Suitable | Eucalyptus accedens      | 350  | 1 | 0 |  | 348646.6716 | 6727488.55  |            |
| 562 | Breeding | Suitable | Eucalyptus accedens      | 350  | 1 | 0 |  | 348652.1465 | 6727493.087 | EPSG:28350 |
| 563 | Breeding | Suitable | Eucalyptus accedens      | 380  | 1 | 0 |  | 348649.3183 | 6727496.471 | EPSG:28350 |
| 564 | Breeding | Suitable | Eucalyptus accedens      | 500  | 2 | 0 |  | 348646.077  | 6727514.849 | EPSG:28350 |
| 565 | Breeding | Suitable | Eucalyptus accedens      | 520  | 2 | 4 |  | 348629.0613 | 6727514.056 | EPSG:28350 |
| 565 | Breeding | Suitable | Eucalyptus accedens      | 650  | 4 | 0 |  | 348625.5746 | 6727528.196 | EPSG:28350 |

|     |          |          |                          |      |   |   |  |             |             |            |
|-----|----------|----------|--------------------------|------|---|---|--|-------------|-------------|------------|
| 567 | Breeding | Suitable | Eucalyptus accedens      | 330  | 1 | 0 |  | 348628.0875 | 6727535.54  | EPSG:28350 |
| 568 | Breeding | Suitable | Eucalyptus accedens      | 360  | 1 | 0 |  | 348677.091  | 6727513.567 | EPSG:28350 |
| 569 | Breeding | Suitable | Eucalyptus accedens      | 480  | 1 | 0 |  | 348704.1013 | 6727506.638 | EPSG:28350 |
| 570 | Breeding | Suitable | Eucalyptus accedens      | 470  | 1 | 0 |  | 348713.8896 | 6727504.941 | EPSG:28350 |
| 571 | Breeding | Suitable | Eucalyptus accedens      | 430  | 1 | 0 |  | 348757.2212 | 6727601.477 | EPSG:28350 |
| 572 | Breeding | Suitable | Eucalyptus camaldulensis | 1340 | 1 | 3 |  | 347830.0421 | 6724627.554 | EPSG:28350 |
| 573 | Breeding | Suitable | Eucalyptus camaldulensis | 1020 | 3 | 0 |  | 347806.7308 | 6724617.331 | EPSG:28350 |
| 574 | Breeding | Suitable | Eucalyptus camaldulensis | 1560 | 2 | 0 |  | 347702.2652 | 6724642.839 | EPSG:28350 |
| 575 | Breeding | Suitable | Eucalyptus camaldulensis | 1120 | 2 | 0 |  | 347696.9694 | 6724656.071 | EPSG:28350 |
| 576 | Breeding | Suitable | Eucalyptus camaldulensis | 800  | 2 | 0 |  | 347704.6947 | 6724661.173 | EPSG:28350 |
| 577 | Breeding | Suitable | Eucalyptus camaldulensis | 800  | 4 | 2 |  | 347656.1099 | 6724646.078 | EPSG:28350 |
| 578 | Breeding | Suitable | Eucalyptus camaldulensis | 1140 | 4 | 2 |  | 347726.881  | 6724672.143 | EPSG:28350 |
| 579 | Breeding | Suitable | Eucalyptus camaldulensis | 1420 | 2 | 0 |  | 347814.4144 | 6724681.477 | EPSG:28350 |
| 580 | Breeding | Suitable | Eucalyptus camaldulensis | 960  | 3 | 2 |  | 347840.1709 | 6724672.302 | EPSG:28350 |
| 581 | Breeding | Suitable | Eucalyptus camaldulensis | 1350 | 1 | 0 |  | 347883.0766 | 6724702.608 | EPSG:28350 |
| 582 | Breeding | Suitable | Eucalyptus camaldulensis | 860  | 2 | 0 |  | 347848.9311 | 6724716.844 | EPSG:28350 |
| 583 | Breeding | Suitable | Eucalyptus camaldulensis | 1160 | 1 | 0 |  | 347844.1104 | 6724716.542 | EPSG:28350 |
| 584 | Breeding | Suitable | Eucalyptus camaldulensis | 1450 | 2 | 0 |  | 347870.7904 | 6724779.417 | EPSG:28350 |
| 585 | Breeding | Suitable | Eucalyptus camaldulensis | 640  | 3 | 0 |  | 347867.8524 | 6724791.467 | EPSG:28350 |
| 586 | Breeding | Suitable | Eucalyptus camaldulensis | 1020 | 5 | 2 |  | 347874.1421 | 6724810.505 | EPSG:28350 |
| 587 | Breeding | Suitable | Eucalyptus camaldulensis | 1150 | 4 | 0 |  | 347883.5831 | 6724795.557 | EPSG:28350 |
| 588 | Breeding | Suitable | Eucalyptus camaldulensis | 770  | 3 | 0 |  | 347901.1311 | 6724751.859 | EPSG:28350 |
| 589 | Breeding | Suitable | Eucalyptus camaldulensis | 990  | 1 | 0 |  | 347953.8595 | 6724752.549 | EPSG:28350 |
| 590 | Breeding | Suitable | Eucalyptus camaldulensis | 1040 | 2 | 1 |  | 347934.3533 | 6724797.414 | EPSG:28350 |
| 591 | Breeding | Suitable | Eucalyptus camaldulensis | 870  | 4 | 3 |  | 347918.3137 | 6724803.963 | EPSG:28350 |
| 592 | Breeding | Suitable | Eucalyptus camaldulensis | 850  | 8 | 0 |  | 347921.8772 | 6724816.51  | EPSG:28350 |
| 593 | Breeding | Suitable | Eucalyptus camaldulensis | 830  | 3 | 2 |  | 347905.3083 | 6724826.573 | EPSG:28350 |
| 594 | Breeding | Suitable | Eucalyptus camaldulensis | 540  | 3 | 1 |  | 347906.4468 | 6724843.895 | EPSG:28350 |
| 595 | Breeding | Suitable | Eucalyptus camaldulensis | 1020 | 5 | 0 |  | 347907.2929 | 6724844.086 | EPSG:28350 |
| 596 | Breeding | Suitable | Eucalyptus camaldulensis | 650  | 2 | 2 |  | 347915.6828 | 6724843.398 | EPSG:28350 |
| 597 | Breeding | Suitable | Eucalyptus camaldulensis | 970  | 4 | 1 |  | 347901.1451 | 6724860.231 | EPSG:28350 |
| 598 | Breeding | Suitable | Eucalyptus camaldulensis | 760  | 2 | 0 |  | 347862.7095 | 6724873.271 | EPSG:28350 |
| 599 | Breeding | Suitable | Eucalyptus camaldulensis | 650  | 2 | 0 |  | 347835.7868 | 6724876.775 | EPSG:28350 |
| 600 | Breeding | Suitable | Eucalyptus camaldulensis | 610  | 2 | 1 |  | 347824.5124 | 6724879.11  | EPSG:28350 |
| 601 | Breeding | Suitable | Eucalyptus camaldulensis | 470  | 1 | 0 |  | 347814.5857 | 6724885.502 | EPSG:28350 |
| 603 | Breeding | Suitable | Eucalyptus camaldulensis | 780  | 2 | 0 |  | 347779.177  | 6724894.027 | EPSG:28350 |
| 604 | Breeding | Suitable | Eucalyptus camaldulensis | 640  | 1 | 0 |  | 347765.0712 | 6724917.048 | EPSG:28350 |
| 605 | Breeding | Suitable | Eucalyptus camaldulensis | 600  | 3 | 1 |  | 347786.1454 | 6724928.742 | EPSG:28350 |
| 606 | Breeding | Suitable | Eucalyptus camaldulensis | 1360 | 1 | 0 |  | 347798.7046 | 6724931.978 | EPSG:28350 |
| 607 | Breeding | Suitable | Eucalyptus camaldulensis | 1400 | 2 | 0 |  | 347801.275  | 6724935.308 | EPSG:28350 |
| 608 | Breeding | Suitable | Eucalyptus camaldulensis | 1030 | 3 | 0 |  | 347829.1957 | 6724924.153 | EPSG:28350 |
| 609 | Breeding | Suitable | Eucalyptus camaldulensis | 770  | 4 | 0 |  | 347824.3338 | 6724916.417 | EPSG:28350 |
| 610 | Breeding | Suitable | Eucalyptus camaldulensis | 1330 | 6 | 0 |  | 347856.3682 | 6724932.852 | EPSG:28350 |
| 611 | Breeding | Suitable | Eucalyptus camaldulensis | 880  | 5 | 1 |  | 347860.1188 | 6724926.806 | EPSG:28350 |
| 612 | Breeding | Suitable | Eucalyptus camaldulensis | 650  | 1 | 0 |  | 347859.023  | 6724927.477 | EPSG:28350 |
| 613 | Breeding | Suitable | Eucalyptus camaldulensis | 1160 | 2 | 0 |  | 347855.5277 | 6724952.302 | EPSG:28350 |
| 614 | Breeding | Suitable | Eucalyptus camaldulensis | 800  | 1 | 3 |  | 347903.335  | 6724944.656 | EPSG:28350 |
| 615 | Breeding | Suitable | Eucalyptus camaldulensis | 900  | 4 | 0 |  | 347945.6229 | 6724906.045 | EPSG:28350 |
| 616 | Breeding | Suitable | Eucalyptus camaldulensis | 1430 | 5 | 0 |  | 347956.3449 | 6724933.23  | EPSG:28350 |

|     |          |          |                          |      |   |   |  |             |             |            |
|-----|----------|----------|--------------------------|------|---|---|--|-------------|-------------|------------|
| 617 | Breeding | Suitable | Eucalyptus camaldulensis | 1090 | 2 | 0 |  | 347956.946  | 6724942.53  | EPSG:28350 |
| 618 | Breeding | Suitable | Eucalyptus camaldulensis | 1760 | 2 | 0 |  | 347984.8489 | 6724912.661 | EPSG:28350 |
| 619 | Breeding | Suitable | Eucalyptus camaldulensis | 800  | 2 | 0 |  | 348043.7317 | 6724908.172 | EPSG:28350 |
| 620 | Breeding | Suitable | Eucalyptus camaldulensis | 1280 | 3 | 0 |  | 347994.1228 | 6724965.078 | EPSG:28350 |
| 621 | Breeding | Suitable | Eucalyptus camaldulensis | 700  | 3 | 3 |  | 348015.1295 | 6725186.202 | EPSG:28350 |
| 622 | Breeding | Suitable | Eucalyptus camaldulensis | 1060 | 2 | 0 |  | 348009.9847 | 6725165.21  | EPSG:28350 |
| 623 | Breeding | Suitable | Eucalyptus camaldulensis | 1450 | 2 | 1 |  | 347988.6858 | 6724824.347 | EPSG:28350 |
| 624 | Breeding | Suitable | Eucalyptus camaldulensis | 1100 | 1 | 0 |  | 347762.0358 | 6724808.863 | EPSG:28350 |
| 626 | Breeding | Suitable | Eucalyptus camaldulensis | 570  | 1 | 0 |  | 347779.2512 | 6724875.65  | EPSG:28350 |
| 627 | Breeding | Suitable | Eucalyptus camaldulensis | 680  | 2 | 0 |  | 347779.2497 | 6724873.337 | EPSG:28350 |
| 628 | Breeding | Suitable | Eucalyptus camaldulensis | 660  | 3 | 2 |  | 347793.1086 | 6724872.443 | EPSG:28350 |
| 629 | Breeding | Suitable | Eucalyptus camaldulensis | 450  | 1 | 1 |  | 347797.0921 | 6724842.793 | EPSG:28350 |
| 630 | Breeding | Suitable | Eucalyptus camaldulensis | 227  | 7 | 2 |  | 347846.4695 | 6724833.301 | EPSG:28350 |
| 636 | Breeding | Suitable | Eucalyptus accedens      | 340  | 1 | 0 |  | 348793.783  | 6723810.352 | EPSG:28350 |
| 637 | Breeding | Suitable | Eucalyptus accedens      | 400  | 1 | 0 |  | 348807.0022 | 6723809.947 | EPSG:28350 |
| 639 | Breeding | Suitable | Eucalyptus accedens      | 480  | 4 | 0 |  | 348799.3345 | 6723796.935 | EPSG:28350 |
| 645 | Breeding | Suitable | Eucalyptus accedens      | 750  | 5 | 1 |  | 348943.4582 | 6723800.193 | EPSG:28350 |
| 653 | Breeding | Suitable | Eucalyptus accedens      | 400  | 1 | 0 |  | 348982.1586 | 6723842.284 | EPSG:28350 |
| 662 | Breeding | Suitable | Eucalyptus accedens      | 580  | 2 | 2 |  | 348983.4626 | 6723860.685 | EPSG:28350 |
| 663 | Breeding | Suitable | Eucalyptus accedens      | 370  | 2 | 1 |  | 348973.7517 | 6723868.602 | EPSG:28350 |
| 677 | Breeding | Suitable | Eucalyptus accedens      | 580  | 3 | 1 |  | 348834.0391 | 6724450.113 | EPSG:28350 |
| 678 | Breeding | Suitable | Eucalyptus accedens      | 590  | 4 | 0 |  | 348835.6184 | 6724456.204 | EPSG:28350 |
| 681 | Breeding | Suitable | Eucalyptus accedens      | 470  | 2 | 2 |  | 348844.1491 | 6724467.057 | EPSG:28350 |
| 682 | Breeding | Suitable | Eucalyptus accedens      | 520  | 1 | 2 |  | 348847.1937 | 6724470.53  | EPSG:28350 |
| 683 | Breeding | Suitable | Eucalyptus accedens      | 610  | 3 | 2 |  | 348849.5885 | 6724470.199 | EPSG:28350 |
| 684 | Breeding | Suitable | Eucalyptus accedens      | 500  | 3 | 0 |  | 348856.1737 | 6724480.993 | EPSG:28350 |
| 685 | Breeding | Suitable | Eucalyptus accedens      | 770  | 2 | 3 |  | 348860.2641 | 6724482.995 | EPSG:28350 |
| 686 | Breeding | Suitable | Eucalyptus accedens      | 1030 | 4 | 2 |  | 348862.6185 | 6724491.358 | EPSG:28350 |
| 687 | Breeding | Suitable | Eucalyptus accedens      | 560  | 1 | 1 |  | 348849.7161 | 6724502.535 | EPSG:28350 |
| 689 | Breeding | Suitable | Eucalyptus accedens      | 680  | 2 | 0 |  | 348868.9255 | 6724503.65  | EPSG:28350 |
| 713 | Breeding | Suitable | Eucalyptus accedens      | 870  | 1 | 0 |  | 349463.1838 | 6724367.025 | EPSG:28350 |
| 714 | Breeding | Suitable | Eucalyptus accedens      | 630  | 1 | 0 |  | 349474.8023 | 6724363.866 | EPSG:28350 |
| 716 | Breeding | Suitable | Eucalyptus accedens      | 350  | 1 | 1 |  | 349483.5255 | 6724393.867 | EPSG:28350 |
| 718 | Breeding | Suitable | Eucalyptus accedens      | 340  | 2 | 0 |  | 349450.8858 | 6724408.47  | EPSG:28350 |
| 719 | Breeding | Suitable | Eucalyptus accedens      | 370  | 1 | 0 |  | 349447.9976 | 6724402.296 | EPSG:28350 |
| 720 | Breeding | Suitable | Eucalyptus accedens      | 390  | 3 | 0 |  | 349436.009  | 6724401.162 | EPSG:28350 |
| 722 | Breeding | Suitable | Eucalyptus accedens      | 480  | 1 | 0 |  | 349435.4268 | 6724440.739 | EPSG:28350 |
| 724 | Breeding | Suitable | Eucalyptus accedens      | 400  | 1 | 0 |  | 349444.0934 | 6724445.57  | EPSG:28350 |
| 726 | Breeding | Suitable | Eucalyptus accedens      | 380  | 1 | 0 |  | 349445.867  | 6724464.424 | EPSG:28350 |
| 728 | Breeding | Suitable | Eucalyptus accedens      | 380  | 1 | 1 |  | 349438.1776 | 6724496.449 | EPSG:28350 |
| 731 | Breeding | Suitable | Eucalyptus accedens      | 370  | 1 | 0 |  | 349411.7032 | 6724511.179 | EPSG:28350 |
| 732 | Breeding | Suitable | Eucalyptus accedens      | 540  | 6 | 0 |  | 349375.4746 | 6724481.479 | EPSG:28350 |
| 733 | Breeding | Suitable | Eucalyptus accedens      | 590  | 1 | 0 |  | 349341.5042 | 6724431.651 | EPSG:28350 |
| 734 | Breeding | Suitable | Eucalyptus accedens      | 340  | 1 | 0 |  | 349365.2112 | 6724413.654 | EPSG:28350 |
| 734 | Breeding | Suitable | Eucalyptus accedens      | 540  | 1 | 0 |  | 349331.4649 | 6724434.12  | EPSG:28350 |
| 735 | Breeding | Suitable | Eucalyptus accedens      | 350  | 2 | 0 |  | 349371.2967 | 6724407.412 | EPSG:28350 |
| 736 | Breeding | Suitable | Eucalyptus accedens      | 350  | 1 | 2 |  | 349383.0263 | 6724394.278 | EPSG:28350 |
| 737 | Breeding | Suitable | Eucalyptus accedens      | 500  | 1 | 0 |  | 349395.4811 | 6724417.346 | EPSG:28350 |
| 738 | Breeding | Suitable | Eucalyptus accedens      | 380  | 2 | 0 |  | 349415.6373 | 6724395.693 | EPSG:28350 |
| 739 | Breeding | Suitable | Eucalyptus accedens      | 350  | 1 | 0 |  | 349417.0607 | 6724388.966 | EPSG:28350 |
| 740 | Breeding | Suitable | Eucalyptus accedens      | 420  | 1 | 3 |  | 349475.7021 | 6724478.513 | EPSG:28350 |
| 741 | Breeding | Suitable | Eucalyptus accedens      | 540  | 3 | 0 |  | 349514.4282 | 6724591.04  | EPSG:28350 |
| 742 | Breeding | Suitable | Eucalyptus accedens      | 380  | 2 | 0 |  | 349514.9595 | 6724586.173 | EPSG:28350 |
| 743 | Breeding | Suitable | Eucalyptus accedens      | 670  | 1 | 0 |  | 349554.5627 | 6724589.608 | EPSG:28350 |
| 744 | Breeding | Suitable | Eucalyptus accedens      | 350  | 1 | 2 |  | 349555.0414 | 6724553.866 | EPSG:28350 |
| 745 | Breeding | Suitable | Eucalyptus accedens      | 310  | 1 | 0 |  | 349606.5855 | 6724561.747 | EPSG:28350 |
| 802 | Breeding | Suitable | Eucalyptus accedens      | 480  | 4 | 3 |  | 346685.2271 | 6717140.885 | EPSG:28350 |
| 804 | Breeding | Suitable | Eucalyptus camaldulensis | 930  | 5 | 5 |  | 348058.2069 | 6708193.374 | EPSG:28350 |
| 805 | Breeding | Suitable | Eucalyptus accedens      | 320  | 1 | 8 |  | 346763.5013 | 6716962.631 | EPSG:28350 |
| 806 | Breeding | Suitable | Eucalyptus accedens      | 335  | 5 | 3 |  | 346854.7681 | 6716872.438 | EPSG:28350 |

|     |          |          |                     |      |    |    |            |             |             |            |
|-----|----------|----------|---------------------|------|----|----|------------|-------------|-------------|------------|
| 807 | Breeding | Suitable | Eucalyptus accedens | 330  | 1  | 5  |            | 346901.4212 | 6716926.51  | EPSG:28350 |
| 808 | Breeding | Suitable | Eucalyptus accedens | 450  | 3  | 10 |            | 346897.2851 | 6716941.298 | EPSG:28350 |
| 809 | Breeding | Suitable | Eucalyptus accedens | 545  | 1  | 2  |            | 346964.2812 | 6717018.585 | EPSG:28350 |
| 809 | Breeding | Suitable | Eucalyptus accedens | 545  | 1  | 2  |            | 346964.2812 | 6717018.585 | EPSG:28350 |
| 810 | Breeding | Suitable | Eucalyptus accedens | 400  | 3  | 4  |            | 346998.303  | 6717029.911 | EPSG:28350 |
| 811 | Breeding | Suitable | Eucalyptus accedens | 580  | 1  | 2  |            | 347049.1724 | 6717238.89  | EPSG:28350 |
| 812 | Breeding | Suitable | Eucalyptus accedens | 420  | 2  | 6  |            | 346936.3537 | 6717248.869 | EPSG:28350 |
| 813 | Breeding | Suitable | Eucalyptus accedens | 335  | 3  | 3  |            | 346830.4035 | 6717266.263 | EPSG:28350 |
| 814 | Breeding | Suitable | Eucalyptus accedens | 440  | 1  | 1  |            | 346809.4766 | 6717317.3   | EPSG:28350 |
| 815 | Breeding | Suitable | Eucalyptus accedens | 560  | 4  | 2  |            | 346807.1838 | 6717328.91  | EPSG:28350 |
| 816 | Breeding | Suitable | Eucalyptus accedens | 810  | 1  | 4  |            | 346715.6363 | 6717283.981 | EPSG:28350 |
| 817 | Breeding | Suitable | Eucalyptus accedens | 810  | 1  | 5  |            | 346723.872  | 6717276.893 | EPSG:28350 |
| 818 | Breeding | Suitable | Eucalyptus accedens | 380  | 4  | 8  |            | 346718.9753 | 6717273.611 | EPSG:28350 |
| 819 | Breeding | Suitable | Eucalyptus accedens | 620  | 1  | 15 |            | 346718.0353 | 6717264.623 | EPSG:28350 |
| 820 | Breeding | Suitable | Eucalyptus accedens | 460  | 8  | 3  |            | 346697.1605 | 6717219.332 | EPSG:28350 |
| 821 | Breeding | Suitable | Eucalyptus accedens | 700  | 12 | 8  |            | 346698.2169 | 6717199.065 | EPSG:28350 |
| 822 | Breeding | Suitable | Eucalyptus accedens | 560  | 4  | 1  |            | 346681.5679 | 6717191.85  | EPSG:28350 |
| 823 | Breeding | Suitable | Eucalyptus accedens | 560  | 10 | 6  |            | 346745.4391 | 6717058.712 | EPSG:28350 |
| 824 | Breeding | Suitable | Eucalyptus accedens | 360  | 2  | 4  |            | 346762.8149 | 6717027.026 | EPSG:28350 |
| 825 | Breeding | Suitable | Eucalyptus accedens | 700  | 5  | 5  |            | 346806.8665 | 6717012.773 | EPSG:28350 |
| 826 | Breeding | Suitable | Eucalyptus accedens | 510  | 2  | 7  |            | 346825.6612 | 6716968.693 | EPSG:28350 |
| 827 | Breeding | Suitable | Eucalyptus accedens | 320  | 5  | 8  |            | 346894.8462 | 6717126.823 | EPSG:28350 |
| 828 | Breeding | Suitable | Eucalyptus accedens | 480  | 3  | 4  |            | 346892.114  | 6717185.421 | EPSG:28350 |
| 829 | Breeding | Suitable | Eucalyptus accedens | 460  | 3  | 8  |            | 346881.3295 | 6717209.216 | EPSG:28350 |
| 830 | Breeding | Suitable | Eucalyptus accedens | 440  | 2  | 6  |            | 346754.3181 | 6717266.114 | EPSG:28350 |
| 831 | Breeding | Suitable | Eucalyptus accedens | 540  | 5  | 1  |            | 346734.3033 | 6717200.664 | EPSG:28350 |
| 832 | Breeding | Suitable | Eucalyptus accedens | 365  | 5  | 5  |            | 346730.2895 | 6717175.561 | EPSG:28350 |
| 833 | Breeding | Suitable | Eucalyptus accedens | 500  | 3  | 17 |            | 346704.7262 | 6717140.844 | EPSG:28350 |
| 834 | Breeding | Suitable | Eucalyptus accedens | 380  | 1  | 3  |            | 346791.933  | 6717085.4   | EPSG:28350 |
| 835 | Breeding | Suitable | Eucalyptus accedens | 660  | 1  | 4  |            | 346859.3617 | 6717039.096 | EPSG:28350 |
| 836 | Breeding | Suitable | Eucalyptus accedens | 560  | 5  | 11 |            | 346860.3971 | 6717069.594 | EPSG:28350 |
| 837 | Breeding | Suitable | Eucalyptus accedens | 570  | 3  | 0  |            | 346855.2519 | 6717084.491 | EPSG:28350 |
| 838 | Breeding | Suitable | Eucalyptus accedens | 360  | 7  | 3  |            | 346834.9625 | 6717109.708 | EPSG:28350 |
| 839 | Breeding | Suitable | Eucalyptus accedens | 360  | 3  | 8  |            | 346811.992  | 6717189.751 | EPSG:28350 |
| 840 | Breeding | Suitable | Eucalyptus accedens | 480  | 5  | 3  |            | 346669.015  | 6717175.27  | EPSG:28350 |
| 841 | Breeding | Suitable | Eucalyptus accedens | 460  | 7  | 2  |            | 346672.6814 | 6717190.177 | EPSG:28350 |
| 842 | Breeding | Suitable | Eucalyptus accedens | 360  | 1  | 0  |            | 346678.7919 | 6717203.779 | EPSG:28350 |
| 843 | Breeding | Suitable | Eucalyptus accedens | 540  | 8  | 5  |            | 346678.6325 | 6717215.418 | EPSG:28350 |
| 844 | Breeding | Suitable | Eucalyptus accedens | 540  | 4  | 2  |            | 346646.4983 | 6717222.076 | EPSG:28350 |
| 845 | Breeding | Suitable | Eucalyptus accedens | 540  | 3  | 9  |            | 346657.6692 | 6717155.279 | EPSG:28350 |
| 846 | Breeding | Suitable | Eucalyptus accedens | 420  | 5  | 2  |            | 346631.5806 | 6717144.72  | EPSG:28350 |
| 847 | Breeding | Suitable | Eucalyptus accedens | 310  | 2  | 5  |            | 346653.7838 | 6717142.144 | EPSG:28350 |
| 848 | Breeding | Suitable | Unknown             | 1160 | 5  | 3  |            | 341814.7214 | 6705394.716 | EPSG:28350 |
| 850 | Breeding | Suitable | Eucalyptus accedens | 305  | 2  | 3  | Galah nest | 341209.967  | 6722299.515 | EPSG:28350 |
| 851 | Breeding | Suitable | Eucalyptus accedens | 290  | 2  | 3  |            | 341218.9624 | 6722320.705 | EPSG:28350 |
| 852 | Breeding | Suitable | Eucalyptus accedens | 380  | 4  | 0  |            | 341414.5561 | 6722166.619 | EPSG:28350 |
| 853 | Breeding | Suitable | Eucalyptus accedens | 400  | 4  | 3  |            | 341407.7717 | 6722140.034 | EPSG:28350 |
| 854 | Breeding | Suitable | Eucalyptus accedens | 540  | 16 | 20 |            | 341406.9623 | 6722128.381 | EPSG:28350 |
| 855 | Breeding | Suitable | Eucalyptus accedens | 535  | 1  | 0  |            | 341399.1834 | 6722096.347 | EPSG:28350 |
| 856 | Breeding | Suitable | Eucalyptus accedens | 520  | 3  | 6  |            | 341278.5584 | 6722051.521 | EPSG:28350 |
| 857 | Breeding | Suitable | Eucalyptus accedens | 580  | 7  | 5  |            | 341293.8671 | 6722099.289 | EPSG:28350 |
| 858 | Breeding | Suitable | Eucalyptus accedens | 480  | 2  | 7  |            | 341275.0838 | 6722098.587 | EPSG:28350 |
| 858 | Breeding | Suitable | Eucalyptus accedens | 520  | 1  | 0  |            | 341275.0838 | 6722098.587 | EPSG:28350 |
| 859 | Breeding | Suitable | Eucalyptus accedens | 470  | 2  | 6  |            | 341391.8558 | 6722121.403 | EPSG:28350 |
| 860 | Breeding | Suitable | Eucalyptus accedens | 520  | 6  | 3  |            | 341380.0263 | 6722129.552 | EPSG:28350 |
| 861 | Breeding | Suitable | Eucalyptus accedens | 450  | 6  | 15 |            | 341380.6112 | 6722108.274 | EPSG:28350 |
| 862 | Breeding | Suitable | Eucalyptus accedens | 620  | 4  | 9  |            | 341372.1565 | 6722110.264 | EPSG:28350 |
| 863 | Breeding | Suitable | Eucalyptus accedens | 620  | 4  | 2  |            | 341339.7488 | 6722121.782 | EPSG:28350 |
| 864 | Breeding | Suitable | Eucalyptus accedens | 800  | 7  | 3  |            | 341328.8594 | 6722111.092 | EPSG:28350 |
| 865 | Breeding | Suitable | Eucalyptus accedens | 540  | 5  | 2  |            | 341258.2983 | 6722080.613 | EPSG:28350 |
| 866 | Breeding | Suitable | Eucalyptus accedens | 360  | 1  | 0  |            | 341259.6921 | 6722111.776 | EPSG:28350 |
| 867 | Breeding | Suitable | Eucalyptus accedens | 550  | 3  | 1  |            | 341215.5818 | 6722073.69  | EPSG:28350 |
| 868 | Breeding | Suitable | Eucalyptus accedens | 520  | 6  | 1  |            | 341198.7568 | 6722119.899 | EPSG:28350 |
| 869 | Breeding | Suitable | Eucalyptus accedens | 420  | 5  | 3  |            | 341189.9599 | 6722132.299 | EPSG:28350 |
| 870 | Breeding | Suitable | Eucalyptus accedens | 520  | 6  | 6  |            | 341194.4385 | 6722158.293 | EPSG:28350 |

|      |          |          |                     |     |    |    |                                                 |             |             |            |
|------|----------|----------|---------------------|-----|----|----|-------------------------------------------------|-------------|-------------|------------|
| 871  | Breeding | Suitable | Eucalyptus accedens | 400 | 12 | 17 |                                                 | 341224.5768 | 6722218.248 | EPSG:28350 |
| 872  | Breeding | Suitable | Eucalyptus accedens | 270 | 1  | 5  |                                                 | 341231.2215 | 6722255.256 | EPSG:28350 |
| 873  | Breeding | Suitable | Eucalyptus accedens | 380 | 5  | 12 |                                                 | 341256.0359 | 6722246.845 | EPSG:28350 |
| 874  | Breeding | Suitable | Eucalyptus accedens | 450 | 3  | 7  |                                                 | 341294.2621 | 6722242.406 | EPSG:28350 |
| 875  | Breeding | Suitable | Eucalyptus accedens | 480 | 4  | 4  |                                                 | 341317.5199 | 6722228.101 | EPSG:28350 |
| 876  | Breeding | Suitable | Eucalyptus accedens | 460 | 11 | 8  |                                                 | 341321.7528 | 6722236.477 | EPSG:28350 |
| 877  | Breeding | Suitable | Eucalyptus accedens | 360 | 6  | 18 |                                                 | 341333.3352 | 6722246.387 | EPSG:28350 |
| 879  | Breeding | Suitable | Eucalyptus accedens | 410 | 4  | 3  |                                                 | 341360.6616 | 6722169.964 | EPSG:28350 |
| 880  | Breeding | Suitable | Eucalyptus accedens | 440 | 5  | 5  |                                                 | 341389.2888 | 6722145.645 | EPSG:28350 |
| 881  | Breeding | Suitable | Eucalyptus accedens | 520 | 8  | 2  |                                                 | 341386.0374 | 6722142.496 | EPSG:28350 |
| 882  | Breeding | Suitable | Eucalyptus accedens | 360 | 2  | 4  |                                                 | 341289.1939 | 6722080.158 | EPSG:28350 |
| 883  | Breeding | Suitable | Eucalyptus accedens | 430 | 2  | 8  |                                                 | 341288.2039 | 6722061.19  | EPSG:28350 |
| 884  | Breeding | Suitable | Eucalyptus accedens | 380 | 3  | 5  |                                                 | 341326.9012 | 6722180.682 | EPSG:28350 |
| 885  | Breeding | Suitable | Eucalyptus accedens | 290 | 3  | 2  |                                                 | 341321.1172 | 6722199.331 | EPSG:28350 |
| 886  | Breeding | Suitable | Eucalyptus accedens | 390 | 1  | 3  |                                                 | 341273.9155 | 6722222.495 | EPSG:28350 |
| 887  | Breeding | Suitable | Eucalyptus accedens | 340 | 7  | 8  |                                                 | 341229.5127 | 6722184.396 | EPSG:28350 |
| 888  | Breeding | Suitable | Eucalyptus accedens | 680 | 1  | 0  |                                                 | 341220.0039 | 6722178.836 | EPSG:28350 |
| 889  | Breeding | Suitable | Eucalyptus accedens | 600 | 5  | 4  |                                                 | 341258.3129 | 6722161.641 | EPSG:28350 |
| 890  | Breeding | Suitable | Eucalyptus accedens | 420 | 5  | 1  |                                                 | 341260.0702 | 6722160.226 | EPSG:28350 |
| 891  | Breeding | Suitable | Eucalyptus accedens | 340 | 1  | 4  |                                                 | 341248.1123 | 6722129.238 | EPSG:28350 |
| 892  | Breeding | Suitable | Eucalyptus accedens | 320 | 1  | 12 |                                                 | 341280.1198 | 6722112.734 | EPSG:28350 |
| 893  | Breeding | Suitable | Eucalyptus accedens | 450 | 1  | 0  |                                                 | 341303.8836 | 6722178.582 | EPSG:28350 |
| 894  | Breeding | Suitable | Eucalyptus accedens | 310 | 3  | 5  |                                                 | 341295.0638 | 6722206.386 | EPSG:28350 |
| 895  | Breeding | Suitable | Eucalyptus accedens | 360 | 3  | 3  |                                                 | 341289.92   | 6722207.317 | EPSG:28350 |
| 896  | Breeding | Suitable | Eucalyptus accedens | 280 | 2  | 1  |                                                 | 341271.5123 | 6722214.48  | EPSG:28350 |
| 897  | Breeding | Suitable | Eucalyptus accedens | 410 | 3  | 5  |                                                 | 341249.8669 | 6722203.749 | EPSG:28350 |
| 898  | Breeding | Suitable | Eucalyptus accedens | 350 | 1  | 0  |                                                 | 341265.2444 | 6722184.688 | EPSG:28350 |
| 899  | Breeding | Suitable | Eucalyptus accedens | 320 | 3  | 3  |                                                 | 341279.9814 | 6722170.151 | EPSG:28350 |
| 900  | Breeding | Suitable | Eucalyptus accedens | 315 | 6  | 1  |                                                 | 341295.381  | 6722156.405 | EPSG:28350 |
| 901  | Breeding | Suitable | Eucalyptus accedens | 560 | 1  | 0  |                                                 | 341138.2033 | 6722258.148 | EPSG:28350 |
| 902  | Breeding | Suitable | Eucalyptus accedens | 300 | 3  | 7  |                                                 | 341131.4983 | 6722259.828 | EPSG:28350 |
| 1001 | Breeding | Suitable | Eucalyptus accedens | 460 | 1  | 6  |                                                 | 341411.9963 | 6722128.898 | EPSG:28350 |
| 1002 | Breeding | Suitable | Eucalyptus accedens | 440 | 5  | 5  |                                                 | 341411.0515 | 6722106.716 | EPSG:28350 |
| 1003 | Breeding | Suitable | Eucalyptus accedens | 380 | 2  | 3  |                                                 | 341407.5237 | 6722102.448 | EPSG:28350 |
| 1004 | Breeding | Suitable | Eucalyptus accedens | 520 | 4  | 1  |                                                 | 341494.4186 | 6722108.229 | EPSG:28350 |
| 1005 | Breeding | Suitable | Eucalyptus accedens | 580 | 1  | 4  |                                                 | 341509.2948 | 6722124.614 | EPSG:28350 |
| 1006 | Breeding | Suitable | Eucalyptus accedens | 420 | 1  | 1  |                                                 | 341524.8719 | 6722214.958 | EPSG:28350 |
| 1007 | Breeding | Suitable | Eucalyptus accedens | 640 | 7  | 4  |                                                 | 341463.1798 | 6722276.049 | EPSG:28350 |
| 1008 | Breeding | Suitable | Eucalyptus accedens | 600 | 3  | 2  |                                                 | 341454.5846 | 6722185.702 | EPSG:28350 |
| 1009 | Breeding | Suitable | Eucalyptus accedens | 440 | 6  | 2  | Galahs may be using hollow                      | 357689.537  | 6717107.132 | EPSG:28350 |
| 1010 | Breeding | Suitable | Eucalyptus accedens | 580 | 7  | 4  | Galahs using hollows                            | 357689.8792 | 6717080.204 | EPSG:28350 |
| 1011 | Breeding | Suitable | Eucalyptus accedens | 480 | 4  | 4  | Galahs using hollows                            | 357689.8792 | 6717080.204 | EPSG:28350 |
| 1012 | Breeding | Suitable | Eucalyptus accedens | 480 | 4  | 1  |                                                 | 357715.5218 | 6717172.524 | EPSG:28350 |
| 1013 | Breeding | Suitable | Eucalyptus accedens | 380 | 5  | 3  | Galahs using hollows                            | 357723.9384 | 6717180.611 | EPSG:28350 |
| 1014 | Breeding | Suitable | Eucalyptus accedens | 340 | 3  | 3  | Galahs using hollows                            | 357707.2402 | 6717298.777 | EPSG:28350 |
| 1015 | Breeding | Suitable | Eucalyptus accedens | 600 | 4  | 8  | Galahs may be using hollows                     | 357731.9681 | 6717226.821 | EPSG:28350 |
| 1016 | Breeding | Suitable | Eucalyptus accedens | 340 | 1  | 6  |                                                 | 357698.7542 | 6717280.823 | EPSG:28350 |
| 1017 | Breeding | Suitable | Eucalyptus accedens | 580 | 8  | 10 |                                                 | 357582.0132 | 6717143.671 | EPSG:28350 |
| 1018 | Breeding | Suitable | Eucalyptus accedens | 520 | 4  | 3  |                                                 | 357634.2327 | 6717125.159 | EPSG:28350 |
| 1019 | Breeding | Suitable | Eucalyptus accedens | 540 | 6  | 4  | Galahs using hollows                            | 357627.4705 | 6717147.138 | EPSG:28350 |
| 1020 | Breeding | Suitable | Eucalyptus accedens | 520 | 3  | 2  |                                                 | 357612.1515 | 6717179.079 | EPSG:28350 |
| 1021 | Breeding | Suitable | Eucalyptus accedens | 330 | 2  | 7  |                                                 | 357625.4828 | 6717173.934 | EPSG:28350 |
| 1022 | Breeding | Suitable | Eucalyptus accedens | 400 | 1  | 0  |                                                 | 358572.1187 | 6716972.119 | EPSG:28350 |
| 1023 | Breeding | Suitable | Eucalyptus accedens | 420 | 4  | 3  |                                                 | 358584.2151 | 6716956.757 | EPSG:28350 |
| 1024 | Breeding | Suitable | Eucalyptus accedens | 400 | 1  | 0  |                                                 | 358591.7164 | 6716953.191 | EPSG:28350 |
| 1025 | Breeding | Suitable | Eucalyptus accedens | 340 | 1  | 0  |                                                 | 358670.3138 | 6716960.724 | EPSG:28350 |
| 1026 | Breeding | Suitable | Eucalyptus accedens | 360 | 5  | 4  |                                                 | 358665.9914 | 6716973.415 | EPSG:28350 |
| 1027 | Breeding | Suitable | Eucalyptus accedens | 560 | 5  | 3  | Good looking hollow, but only 2.5m above ground | 358659.3967 | 6716997.72  | EPSG:28350 |
| 1028 | Breeding | Suitable | Eucalyptus accedens | 340 | 5  | 4  |                                                 | 358650.3959 | 6717005.029 | EPSG:28350 |
| 1029 | Breeding | Suitable | Eucalyptus accedens | 380 | 4  | 9  | Galahs using hollows                            | 358633.2027 | 6717009.578 | EPSG:28350 |
| 1030 | Breeding | Suitable | Eucalyptus accedens | 420 | 2  | 0  |                                                 | 358623.3934 | 6717019.869 | EPSG:28350 |
| 1031 | Breeding | Suitable | Eucalyptus accedens | 600 | 9  | 6  | Galahs using hollows                            | 358559.2757 | 6717038.234 | EPSG:28350 |
| 1032 | Breeding | Suitable | Eucalyptus accedens | 380 | 3  | 1  |                                                 | 358562.6966 | 6717028.198 | EPSG:28350 |
| 1033 | Breeding | Suitable | Eucalyptus accedens | 360 | 5  | 4  |                                                 | 358562.358  | 6717001.037 | EPSG:28350 |
| 1034 | Breeding | Suitable | Eucalyptus accedens | 620 | 8  | 7  |                                                 | 358581.4752 | 6716989.972 | EPSG:28350 |

|      |          |          |                     |     |   |    |                                                                                          |             |             |            |
|------|----------|----------|---------------------|-----|---|----|------------------------------------------------------------------------------------------|-------------|-------------|------------|
| 1035 | Breeding | Suitable | Eucalyptus accedens | 360 | 4 | 9  |                                                                                          | 358602.3802 | 6716974.824 | EPSG:28350 |
| 1036 | Breeding | Suitable | Eucalyptus accedens | 420 | 4 | 0  |                                                                                          | 358618.1259 | 6716968.014 | EPSG:28350 |
| 1038 | Breeding | Suitable | Eucalyptus accedens | 540 | 5 | 2  |                                                                                          | 359383.7378 | 6716565.258 | EPSG:28350 |
| 1039 | Breeding | Suitable | Eucalyptus accedens | 640 | 4 | 8  | Galahs, ringnecks and honey bees using hollows                                           | 359309.0209 | 6716649.437 | EPSG:28350 |
| 1040 | Breeding | Suitable | Eucalyptus accedens | 360 | 4 | 2  | Galahs using hollows                                                                     | 359330.1034 | 6716643.273 | EPSG:28350 |
| 1041 | Breeding | Suitable | Eucalyptus accedens | 360 | 5 | 0  |                                                                                          | 359337.7488 | 6716643.704 | EPSG:28350 |
| 1042 | Breeding | Suitable | Eucalyptus accedens | 360 | 6 | 12 |                                                                                          | 359342.8169 | 6716663.937 | EPSG:28350 |
| 1042 | Breeding | Suitable | Eucalyptus accedens | 400 | 3 | 7  |                                                                                          | 359342.8169 | 6716663.937 | EPSG:28350 |
| 1044 | Breeding | Suitable | Eucalyptus accedens | 320 | 1 | 2  |                                                                                          | 359406.4075 | 6716710.518 | EPSG:28350 |
| 1045 | Breeding | Suitable | Eucalyptus accedens | 300 | 2 | 1  |                                                                                          | 359414.839  | 6716709.732 | EPSG:28350 |
| 1046 | Breeding | Suitable | Eucalyptus accedens | 340 | 4 | 0  |                                                                                          | 359418.312  | 6716702.576 | EPSG:28350 |
| 1047 | Breeding | Suitable | Eucalyptus accedens | 340 | 2 | 0  | Red-tailed Black Cockatoo (ssp. escondidus)                                              | 359445.1098 | 6716649.595 | EPSG:28350 |
| 1048 | Breeding | Suitable | Eucalyptus accedens | 240 | 2 | 1  |                                                                                          | 359464.9626 | 6716656.719 | EPSG:28350 |
| 1049 | Breeding | Suitable | Eucalyptus accedens | 340 | 3 | 0  |                                                                                          | 359458.5049 | 6716646.995 | EPSG:28350 |
| 1050 | Breeding | Suitable | Eucalyptus accedens | 440 | 1 | 2  |                                                                                          | 359462.7915 | 6716606.041 | EPSG:28350 |
| 1051 | Breeding | Suitable | Eucalyptus accedens | 480 | 3 | 1  |                                                                                          | 359448.8067 | 6716586.467 | EPSG:28350 |
| 1052 | Breeding | Suitable | Eucalyptus accedens | 400 | 1 | 3  |                                                                                          | 359460.2005 | 6716573.306 | EPSG:28350 |
| 1053 | Breeding | Suitable | Eucalyptus accedens | 500 | 4 | 3  |                                                                                          | 359473.3633 | 6716550.422 | EPSG:28350 |
| 1054 | Breeding | Suitable | Eucalyptus accedens | 580 | 3 | 4  |                                                                                          | 359454.5217 | 6716562.932 | EPSG:28350 |
| 1055 | Breeding | Suitable | Eucalyptus accedens | 400 | 4 | 4  |                                                                                          | 359450.658  | 6716562.437 | EPSG:28350 |
| 1056 | Breeding | Suitable | Eucalyptus accedens | 510 | 1 | 0  |                                                                                          | 359432.6591 | 6716569.857 | EPSG:28350 |
| 1057 | Breeding | Suitable | Eucalyptus accedens | 420 | 2 | 2  |                                                                                          | 359433.2502 | 6716569.307 | EPSG:28350 |
| 1058 | Breeding | Suitable | Eucalyptus accedens | 340 | 4 | 1  |                                                                                          | 359400.6417 | 6716606.923 | EPSG:28350 |
| 1059 | Breeding | Suitable | Eucalyptus accedens | 360 | 3 | 2  |                                                                                          | 359396.3466 | 6716663.392 | EPSG:28350 |
| 1060 | Breeding | Suitable | Eucalyptus accedens | 390 | 7 | 1  |                                                                                          | 359433.5908 | 6716634.595 | EPSG:28350 |
| 1200 | Breeding | Suitable | Eucalyptus accedens | 460 | 3 | 4  | Old honeycomb in largest hollow                                                          | 362409.895  | 6718454.598 | EPSG:28350 |
| 1201 | Breeding | Suitable | Eucalyptus accedens | 400 | 2 | 0  |                                                                                          | 362513.6731 | 6718335.945 | EPSG:28350 |
| 1202 | Breeding | Suitable | Eucalyptus accedens | 350 | 4 | 13 |                                                                                          | 362560.5436 | 6718358.24  | EPSG:28350 |
| 1203 | Breeding | Suitable | Eucalyptus accedens | 340 | 8 | 3  |                                                                                          | 362678.0571 | 6718264.698 | EPSG:28350 |
| 1204 | Breeding | Suitable | Eucalyptus accedens | 460 | 2 | 1  |                                                                                          | 362488.7523 | 6717984.394 | EPSG:28350 |
| 1205 | Breeding | Suitable | Eucalyptus accedens | 500 | 4 | 0  |                                                                                          | 362452.3335 | 6717970.095 | EPSG:28350 |
| 1206 | Breeding | Suitable | Eucalyptus accedens | 420 | 2 | 2  |                                                                                          | 362308.3517 | 6717863.031 | EPSG:28350 |
| 1207 | Breeding | Suitable | Eucalyptus accedens | 580 | 2 | 0  |                                                                                          | 362267.2667 | 6717842.246 | EPSG:28350 |
| 1208 | Breeding | Suitable | Eucalyptus accedens | 600 | 4 | 8  |                                                                                          | 362259.3094 | 6717828.185 | EPSG:28350 |
| 1209 | Breeding | Suitable | Eucalyptus accedens | 280 | 4 | 1  |                                                                                          | 362276.4872 | 6717722.543 | EPSG:28350 |
| 1210 | Breeding | Suitable | Eucalyptus accedens | 320 | 2 | 3  |                                                                                          | 362321.0351 | 6717720.982 | EPSG:28350 |
| 1211 | Breeding | Suitable | Eucalyptus accedens | 290 | 1 | 5  |                                                                                          | 362344.4753 | 6717719.718 | EPSG:28350 |
| 1212 | Breeding | Suitable | Eucalyptus accedens | 380 | 1 | 0  |                                                                                          | 362407.9409 | 6717730.364 | EPSG:28350 |
| 1213 | Breeding | Suitable | Eucalyptus accedens | 420 | 5 | 5  |                                                                                          | 362472.7054 | 6717746.238 | EPSG:28350 |
| 1214 | Breeding | Suitable | Eucalyptus accedens | 320 | 2 | 1  |                                                                                          | 362549.5882 | 6717775.665 | EPSG:28350 |
| 1215 | Breeding | Suitable | Eucalyptus accedens | 340 | 7 | 5  |                                                                                          | 362562.0432 | 6717786.232 | EPSG:28350 |
| 1216 | Breeding | Suitable | Eucalyptus accedens | 420 | 2 | 3  |                                                                                          | 362581.8188 | 6717831.7   | EPSG:28350 |
| 1217 | Breeding | Suitable | Eucalyptus accedens | 540 | 7 | 2  |                                                                                          | 362537.0772 | 6717872.158 | EPSG:28350 |
| 1218 | Breeding | Suitable | Eucalyptus accedens | 320 | 4 | 0  |                                                                                          | 362556.9938 | 6717874.399 | EPSG:28350 |
| 1219 | Breeding | Suitable | Eucalyptus accedens | 320 | 2 | 3  |                                                                                          | 362567.4047 | 6717901.459 | EPSG:28350 |
| 1220 | Breeding | Suitable | Eucalyptus accedens | 480 | 2 | 0  |                                                                                          | 362567.2351 | 6717931.158 | EPSG:28350 |
| 1221 | Breeding | Suitable | Eucalyptus accedens | 320 | 5 | 5  |                                                                                          | 362753.685  | 6718239.25  | EPSG:28350 |
| 1222 | Breeding | Suitable | Eucalyptus accedens | 380 | 3 | 2  |                                                                                          | 362724.9067 | 6718272.806 | EPSG:28350 |
| 1223 | Breeding | Suitable | Eucalyptus accedens | 480 | 5 | 3  |                                                                                          | 362701.1292 | 6718340.575 | EPSG:28350 |
| 1224 | Breeding | Suitable | Eucalyptus accedens | 300 | 3 | 0  |                                                                                          | 362646.3069 | 6718359.292 | EPSG:28350 |
| 1225 | Breeding | Suitable | Eucalyptus accedens | 340 | 4 | 7  |                                                                                          | 362640.4159 | 6718397.681 | EPSG:28350 |
| 1226 | Breeding | Suitable | Eucalyptus accedens | 360 | 5 | 3  |                                                                                          | 362586.1747 | 6718478.816 | EPSG:28350 |
| 1227 | Breeding | Suitable | Eucalyptus accedens | 300 | 4 | 1  |                                                                                          | 362563.1928 | 6718521.316 | EPSG:28350 |
| 1228 | Breeding | Suitable | Eucalyptus accedens | 600 | 6 | 0  |                                                                                          | 362554.7218 | 6718533.187 | EPSG:28350 |
| 1229 | Breeding | Suitable | Eucalyptus accedens | 460 | 5 | 2  |                                                                                          | 363608.026  | 6718299.998 | EPSG:28350 |
| 1230 | Breeding | Suitable | Eucalyptus accedens | 300 | 3 | 4  | Red-tailed black cockatoo ssp. escondidus. Pair witnessed in tree, one heard further off | 363656.3786 | 6718232.648 | EPSG:28350 |
| 1231 | Breeding | Suitable | Eucalyptus accedens | 220 | 2 | 2  |                                                                                          | 363699.158  | 6718265.201 | EPSG:28350 |
| 1232 | Breeding | Suitable | Eucalyptus accedens | 310 | 3 | 2  |                                                                                          | 363721.129  | 6718257.376 | EPSG:28350 |
| 1233 | Breeding | Suitable | Eucalyptus accedens | 340 | 4 | 2  |                                                                                          | 363695.3125 | 6718303.169 | EPSG:28350 |
| 1234 | Breeding | Suitable | Eucalyptus accedens | 310 | 4 | 0  |                                                                                          | 363681.2244 | 6718307.318 | EPSG:28350 |
| 1235 | Breeding | Suitable | Eucalyptus accedens | 330 | 4 | 2  |                                                                                          | 363664.2238 | 6718312.1   | EPSG:28350 |
| 1236 | Breeding | Suitable | Eucalyptus accedens | 360 | 3 | 2  |                                                                                          | 363643.5452 | 6718317.06  | EPSG:28350 |
| 1237 | Breeding | Suitable | Eucalyptus accedens | 340 | 4 | 3  |                                                                                          | 363636.5287 | 6718312.868 | EPSG:28350 |
| 1238 | Breeding | Suitable | Eucalyptus accedens | 340 | 1 | 0  |                                                                                          | 363639.0956 | 6718197.302 | EPSG:28350 |

|      |          |          |                     |     |    |    |                                                                             |             |             |            |
|------|----------|----------|---------------------|-----|----|----|-----------------------------------------------------------------------------|-------------|-------------|------------|
| 1239 | Breeding | Suitable | Eucalyptus accedens | 300 | 3  | 1  |                                                                             | 363645.5363 | 6718208.798 | EPSG:28350 |
| 1240 | Breeding | Suitable | Eucalyptus accedens | 300 | 4  | 3  |                                                                             | 363655.6298 | 6718198.832 | EPSG:28350 |
| 1241 | Breeding | Suitable | Eucalyptus accedens | 480 | 5  | 4  |                                                                             | 363659.9541 | 6718201.541 | EPSG:28350 |
| 1242 | Breeding | Suitable | Eucalyptus accedens | 300 | 3  | 2  |                                                                             | 363661.9206 | 6718214.646 | EPSG:28350 |
| 1243 | Breeding | Suitable | Eucalyptus accedens | 320 | 2  | 2  | Red-Tailed Black cockatoo ssp. samueli, pair appear to be using this hollow | 363676.7321 | 6718215.049 | EPSG:28350 |
| 1244 | Breeding | Suitable | Eucalyptus accedens | 460 | 4  | 0  |                                                                             | 364170.7725 | 6717947.724 | EPSG:28350 |
| 1245 | Breeding | Suitable | Eucalyptus accedens | 380 | 2  | 0  |                                                                             | 364137.769  | 6717971.487 | EPSG:28350 |
| 1246 | Breeding | Suitable | Eucalyptus accedens | 380 | 2  | 4  |                                                                             | 364124.5636 | 6717982.522 | EPSG:28350 |
| 1247 | Breeding | Suitable | Eucalyptus accedens | 480 | 2  | 0  |                                                                             | 364113.9137 | 6717974.858 | EPSG:28350 |
| 1248 | Breeding | Suitable | Eucalyptus accedens | 320 | 2  | 4  |                                                                             | 364121.6612 | 6717934.828 | EPSG:28350 |
| 1249 | Breeding | Suitable | Eucalyptus accedens | 220 | 1  | 3  |                                                                             | 364118.3064 | 6717931.796 | EPSG:28350 |
| 1250 | Breeding | Suitable | Eucalyptus accedens | 280 | 3  | 1  |                                                                             | 364346.7134 | 6717935.781 | EPSG:28350 |
| 1251 | Breeding | Suitable | Eucalyptus accedens | 380 | 4  | 10 |                                                                             | 363256.2846 | 6717447.034 | EPSG:28350 |
| 1252 | Breeding | Suitable | Eucalyptus accedens | 660 | 5  | 7  |                                                                             | 362778.5165 | 6716978.677 | EPSG:28350 |
| 1253 | Breeding | Suitable | Eucalyptus accedens | 460 | 3  | 7  |                                                                             | 362707.9026 | 6716951.204 | EPSG:28350 |
| 1254 | Breeding | Suitable | Eucalyptus accedens | 360 | 3  | 5  |                                                                             | 362693.9135 | 6716947.382 | EPSG:28350 |
| 1255 | Breeding | Suitable | Eucalyptus accedens | 460 | 1  | 5  |                                                                             | 362688.847  | 6716957.623 | EPSG:28350 |
| 1256 | Breeding | Suitable | Eucalyptus accedens | 460 | 6  | 3  |                                                                             | 362671.9738 | 6716936.912 | EPSG:28350 |
| 1257 | Breeding | Suitable | Eucalyptus accedens | 400 | 1  | 0  |                                                                             | 362667.9943 | 6716945.178 | EPSG:28350 |
| 1258 | Breeding | Suitable | Eucalyptus accedens | 400 | 4  | 9  |                                                                             | 362658.7586 | 6716948.716 | EPSG:28350 |
| 1259 | Breeding | Suitable | Eucalyptus accedens | 460 | 5  | 12 |                                                                             | 362648.8551 | 6716927.32  | EPSG:28350 |
| 1260 | Breeding | Suitable | Eucalyptus accedens | 420 | 5  | 2  | Galahs using hollow                                                         | 362648.8579 | 6716903.936 | EPSG:28350 |
| 1261 | Breeding | Suitable | Eucalyptus accedens | 240 | 2  | 1  |                                                                             | 362637.4271 | 6716920.416 | EPSG:28350 |
| 1262 | Breeding | Suitable | Eucalyptus accedens | 380 | 8  | 7  | Galahs using hollow                                                         | 362639.3975 | 6716933.075 | EPSG:28350 |
| 1263 | Breeding | Suitable | Eucalyptus accedens | 340 | 2  | 4  |                                                                             | 362625.3691 | 6716932.457 | EPSG:28350 |
| 1264 | Breeding | Suitable | Eucalyptus accedens | 460 | 1  | 7  |                                                                             | 362647.0673 | 6716954.676 | EPSG:28350 |
| 1265 | Breeding | Suitable | Eucalyptus accedens | 360 | 2  | 0  |                                                                             | 362626.5634 | 6716945.553 | EPSG:28350 |
| 1266 | Breeding | Suitable | Eucalyptus accedens | 580 | 8  | 7  |                                                                             | 362631.8069 | 6716959.915 | EPSG:28350 |
| 1267 | Breeding | Suitable | Eucalyptus accedens | 480 | 9  | 9  |                                                                             | 362618.0809 | 6716903.559 | EPSG:28350 |
| 1268 | Breeding | Suitable | Eucalyptus accedens | 280 | 2  | 0  |                                                                             | 362606.0202 | 6716915.823 | EPSG:28350 |
| 1269 | Breeding | Suitable | Eucalyptus accedens | 320 | 4  | 2  |                                                                             | 362602.7031 | 6716926.308 | EPSG:28350 |
| 1270 | Breeding | Suitable | Eucalyptus accedens | 280 | 2  | 0  | Suspected galah hollow                                                      | 362597.5913 | 6716924.359 | EPSG:28350 |
| 1271 | Breeding | Suitable | Eucalyptus accedens | 360 | 6  | 5  |                                                                             | 362595.9535 | 6716931.548 | EPSG:28350 |
| 1272 | Breeding | Suitable | Eucalyptus accedens | 320 | 1  | 0  | Galahs using hollow                                                         | 362584.1658 | 6716906.348 | EPSG:28350 |
| 1273 | Breeding | Suitable | Eucalyptus accedens | 480 | 11 | 9  |                                                                             | 362582.2145 | 6716892.138 | EPSG:28350 |
| 1274 | Breeding | Suitable | Eucalyptus accedens | 200 | 1  | 0  |                                                                             | 362576.9597 | 6716885.979 | EPSG:28350 |
| 1275 | Breeding | Suitable | Eucalyptus accedens | 320 | 1  | 0  |                                                                             | 362573.9112 | 6716882.504 | EPSG:28350 |
| 1276 | Breeding | Suitable | Eucalyptus accedens | 300 | 3  | 2  |                                                                             | 362568.5353 | 6716886.21  | EPSG:28350 |
| 1277 | Breeding | Suitable | Eucalyptus accedens | 280 | 1  | 4  |                                                                             | 362558.4729 | 6716878.441 | EPSG:28350 |
| 1278 | Breeding | Suitable | Eucalyptus accedens | 420 | 2  | 0  |                                                                             | 362562.8194 | 6716863.416 | EPSG:28350 |
| 1279 | Breeding | Suitable | Eucalyptus accedens | 340 | 2  | 6  |                                                                             | 362556.1803 | 6716891.382 | EPSG:28350 |
| 1280 | Breeding | Suitable | Eucalyptus accedens | 400 | 8  | 10 |                                                                             | 362532.8624 | 6716890.761 | EPSG:28350 |
| 1281 | Breeding | Suitable | Eucalyptus accedens | 620 | 10 | 11 |                                                                             | 362465.0493 | 6716982.143 | EPSG:28350 |
| 1282 | Breeding | Suitable | Eucalyptus accedens | 420 | 4  | 6  |                                                                             | 362449.3033 | 6716987.273 | EPSG:28350 |
| 1283 | Breeding | Suitable | Eucalyptus accedens | 360 | 5  | 1  |                                                                             | 362443.122  | 6716986.528 | EPSG:28350 |
| 1284 | Breeding | Suitable | Eucalyptus accedens | 540 | 5  | 3  |                                                                             | 362454.6405 | 6716993.99  | EPSG:28350 |
| 1285 | Breeding | Suitable | Eucalyptus accedens | 400 | 6  | 8  |                                                                             | 362467.9304 | 6716999.914 | EPSG:28350 |
| 1286 | Breeding | Suitable | Eucalyptus accedens | 540 | 8  | 1  |                                                                             | 362476.4795 | 6717012.653 | EPSG:28350 |
| 1287 | Breeding | Suitable | Eucalyptus accedens | 420 | 3  | 2  |                                                                             | 362509.4122 | 6717027.132 | EPSG:28350 |
| 1288 | Breeding | Suitable | Eucalyptus accedens | 320 | 3  | 2  |                                                                             | 362497.2178 | 6717050.264 | EPSG:28350 |
| 1289 | Breeding | Suitable | Eucalyptus accedens | 500 | 4  | 11 |                                                                             | 362514.1628 | 6717049.915 | EPSG:28350 |
| 1290 | Breeding | Suitable | Eucalyptus accedens | 320 | 5  | 5  |                                                                             | 362541.2199 | 6717061.887 | EPSG:28350 |
| 1291 | Breeding | Suitable | Eucalyptus accedens | 360 | 2  | 0  | Suspected galah hollow                                                      | 362611.4138 | 6716989.375 | EPSG:28350 |
| 1292 | Breeding | Suitable | Eucalyptus accedens | 320 | 6  | 9  |                                                                             | 362588.0013 | 6716964.7   | EPSG:28350 |
| 1293 | Breeding | Suitable | Eucalyptus accedens | 360 | 6  | 7  | Galahs using hollow                                                         | 362584.1091 | 6716942.709 | EPSG:28350 |
| 1294 | Breeding | Suitable | Eucalyptus accedens | 400 | 4  | 2  |                                                                             | 362578.6392 | 6716938.87  | EPSG:28350 |
| 1295 | Breeding | Suitable | Eucalyptus accedens | 300 | 1  | 0  |                                                                             | 362577.2613 | 6716940.739 | EPSG:28350 |
| 1296 | Breeding | Suitable | Eucalyptus accedens | 340 | 5  | 3  | Galahs using hollow                                                         | 362573.4314 | 6716936.809 | EPSG:28350 |
| 1297 | Breeding | Suitable | Eucalyptus accedens | 340 | 2  | 0  |                                                                             | 362570.0289 | 6716930.45  | EPSG:28350 |
| 1298 | Breeding | Suitable | Eucalyptus accedens | 380 | 5  | 2  |                                                                             | 362564.3875 | 6716940.581 | EPSG:28350 |
| 1299 | Breeding | Suitable | Eucalyptus accedens | 440 | 12 | 9  |                                                                             | 362564.814  | 6716913.766 | EPSG:28350 |
| 1300 | Breeding | Suitable | Eucalyptus accedens | 400 | 3  | 5  |                                                                             | 362554.1955 | 6716911.638 | EPSG:28350 |
| 1301 | Breeding | Suitable | Eucalyptus accedens | 300 | 1  | 0  |                                                                             | 362545.9738 | 6716895.353 | EPSG:28350 |
| 1302 | Breeding | Suitable | Eucalyptus accedens | 320 | 4  | 4  |                                                                             | 362569.9748 | 6716911.051 | EPSG:28350 |

|      |          |          |                                  |      |   |    |                                                            |             |             |            |
|------|----------|----------|----------------------------------|------|---|----|------------------------------------------------------------|-------------|-------------|------------|
| 1303 | Breeding | Suitable | Eucalyptus accedens              | 440  | 4 | 7  |                                                            | 362644.2365 | 6716972.479 | EPSG:28350 |
| 1304 | Breeding | Suitable | Eucalyptus accedens              | 400  | 2 | 2  |                                                            | 362570.8096 | 6716922.368 | EPSG:28350 |
| 1305 | Breeding | Suitable | Eucalyptus accedens              | 280  | 5 | 8  | Suspected galah hollows                                    | 362592.9784 | 6716922.091 | EPSG:28350 |
| 1306 | Breeding | Suitable | Eucalyptus accedens              | 440  | 1 | 0  |                                                            | 362662.514  | 6716997.759 | EPSG:28350 |
| 1307 | Breeding | Suitable | Eucalyptus accedens              | 340  | 5 | 9  |                                                            | 362685.0348 | 6717016.429 | EPSG:28350 |
| 1308 | Breeding | Suitable | Eucalyptus accedens              | 280  | 3 | 6  |                                                            | 362705.491  | 6717013.577 | EPSG:28350 |
| 1309 | Breeding | Suitable | Eucalyptus accedens              | 380  | 5 | 3  |                                                            | 362707.5284 | 6717036.661 | EPSG:28350 |
| 1310 | Breeding | Suitable | Eucalyptus accedens              | 280  | 1 | 1  |                                                            | 362707.6683 | 6717049.074 | EPSG:28350 |
| 1311 | Breeding | Suitable | Eucalyptus accedens              | 360  | 3 | 4  |                                                            | 362710.6647 | 6717065.406 | EPSG:28350 |
| 1312 | Breeding | Suitable | Eucalyptus accedens              | 400  | 2 | 0  |                                                            | 362720.8945 | 6717036.379 | EPSG:28350 |
| 1313 | Breeding | Suitable | Eucalyptus accedens              | 260  | 1 | 4  |                                                            | 362722.3434 | 6717020.77  | EPSG:28350 |
| 1314 | Breeding | Suitable | Eucalyptus accedens              | 280  | 2 | 0  |                                                            | 362734.2851 | 6717033.44  | EPSG:28350 |
| 1315 | Breeding | Suitable | Eucalyptus accedens              | 340  | 5 | 8  |                                                            | 362734.42   | 6717038.319 | EPSG:28350 |
| 3000 | Breeding | Suitable | Eucalyptus accedens              | 257  | 1 | 0  |                                                            | 359629.7738 | 6716921.471 | EPSG:28350 |
| 3001 | Breeding | Suitable | Eucalyptus accedens              | 314  | 1 | 5  |                                                            | 359609.9187 | 6716907.37  | EPSG:28350 |
| 3002 | Breeding | Suitable | Eucalyptus camaldulensis         | 540  | 6 | 4  |                                                            | 346355.8674 | 6716757.421 | EPSG:28350 |
| 3003 | Breeding | Suitable | Eucalyptus camaldulensis         | 840  | 1 | 3  |                                                            | 346470.1773 | 6717210.128 | EPSG:28350 |
| 3004 | Breeding | Suitable | Eucalyptus camaldulensis         | 560  | 1 | 0  |                                                            | 346434.3841 | 6717272.37  | EPSG:28350 |
| 3005 | Breeding | Suitable | Eucalyptus camaldulensis         | 495  | 2 | 0  |                                                            | 346425.9475 | 6717286.999 | EPSG:28350 |
| 3006 | Breeding | Suitable | Eucalyptus camaldulensis         | 660  | 1 | 0  |                                                            | 346414.7516 | 6717305.799 | EPSG:28350 |
| 3007 | Breeding | Suitable | Eucalyptus accedens              | 670  | 1 | 3  |                                                            | 346489.8262 | 6717302.174 | EPSG:28350 |
| 3008 | Breeding | Suitable | Eucalyptus accedens              | 460  | 1 | 6  |                                                            | 346521.128  | 6717222.459 | EPSG:28350 |
| 3009 | Breeding | Suitable | Eucalyptus accedens              | 760  | 1 | 4  |                                                            | 346531.1135 | 6717150.442 | EPSG:28350 |
| 3010 | Breeding | Suitable | Eucalyptus camaldulensis         | 920  | 2 | 3  | Galahs nesting in hollow                                   | 346427.6376 | 6717495.743 | EPSG:28350 |
| 3011 | Breeding | Suitable | Eucalyptus camaldulensis         | 1000 | 6 | 3  |                                                            | 346385.5651 | 6717499.821 | EPSG:28350 |
| 3012 | Breeding | Suitable | Eucalyptus camaldulensis         | 870  | 5 | 3  |                                                            | 346377.343  | 6717485.186 | EPSG:28350 |
| 3013 | Breeding | Suitable | Eucalyptus camaldulensis         | 490  | 2 | 0  | Beehive in hollow                                          | 346362.1201 | 6717494.073 | EPSG:28350 |
| 3014 | Breeding | Suitable | Eucalyptus camaldulensis         | 600  | 5 | 2  |                                                            | 346348.5062 | 6717484.456 | EPSG:28350 |
| 3015 | Breeding | Suitable | Eucalyptus camaldulensis         | 1420 | 2 | 5  |                                                            | 346363.8506 | 6717480.904 | EPSG:28350 |
| 3016 | Breeding | Suitable | Eucalyptus camaldulensis         | 720  | 1 | 3  |                                                            | 346378.6386 | 6717447.52  | EPSG:28350 |
| 3017 | Breeding | Suitable | Eucalyptus camaldulensis         | 790  | 3 | 6  | Tree Martins using hollows                                 | 346398.8488 | 6717448.903 | EPSG:28350 |
| 3018 | Breeding | Suitable | Eucalyptus camaldulensis         | 410  | 2 | 2  | Suspected galah hollow                                     | 346367.9836 | 6717419.771 | EPSG:28350 |
| 3019 | Breeding | Suitable | Eucalyptus camaldulensis         | 485  | 1 | 0  |                                                            | 346317.171  | 6717482.475 | EPSG:28350 |
| 3020 | Breeding | Suitable | Eucalyptus camaldulensis         | 680  | 1 | 0  | Galahs using hollow                                        | 346312.5664 | 6717486.295 | EPSG:28350 |
| 3021 | Breeding | Suitable | Eucalyptus camaldulensis         | 780  | 7 | 15 |                                                            | 346303.1265 | 6717475.853 | EPSG:28350 |
| 3022 | Breeding | Suitable | Eucalyptus camaldulensis         | 480  | 4 | 4  |                                                            | 346257.2521 | 6717516.903 | EPSG:28350 |
| 3023 | Breeding | Suitable | Eucalyptus camaldulensis         | 740  | 1 | 0  |                                                            | 346253.3488 | 6717540.569 | EPSG:28350 |
| 3024 | Breeding | Suitable | Eucalyptus camaldulensis         | 1200 | 1 | 0  |                                                            | 346256.4159 | 6717550.041 | EPSG:28350 |
| 3025 | Breeding | Suitable | Eucalyptus camaldulensis         | 960  | 6 | 8  |                                                            | 346244.8789 | 6717558.189 | EPSG:28350 |
| 3026 | Breeding | Suitable | Eucalyptus camaldulensis         | 740  | 2 | 6  |                                                            | 346255.2766 | 6717611.764 | EPSG:28350 |
| 3027 | Breeding | Suitable | Eucalyptus camaldulensis         | 740  | 4 | 3  | Suspected corella hollow                                   | 346306.8065 | 6717638.188 | EPSG:28350 |
| 3028 | Breeding | Suitable | Eucalyptus camaldulensis         | 320  | 1 | 0  |                                                            | 346329.5338 | 6717590.392 | EPSG:28350 |
| 3029 | Breeding | Suitable | Eucalyptus camaldulensis         | 920  | 3 | 0  |                                                            | 346330.1284 | 6717568.343 | EPSG:28350 |
| 4012 | Breeding | Suitable | Eucalyptus accedens              | 450  | 2 | 0  |                                                            | 351102.1164 | 6721513.883 | EPSG:28350 |
| 4041 | Breeding | Suitable | Eucalyptus accedens              | 640  | 5 | 0  |                                                            | 348934.0603 | 6723144.202 | EPSG:28350 |
| 4044 | Breeding | Suitable | Eucalyptus accedens              | 660  | 3 | 2  |                                                            | 348982.004  | 6723130.04  | EPSG:28350 |
| 4289 | Breeding | Suitable | Eucalyptus loxophleba loxophleba | 810  | 2 | 0  |                                                            | 346649.9737 | 6719093.186 | EPSG:28350 |
| 5000 | Breeding | Suitable | Eucalyptus accedens              | 400  | 1 | 0  |                                                            | 350888.661  | 6721335.393 | EPSG:28350 |
| 5001 | Breeding | Suitable | Eucalyptus accedens              | 460  | 1 | 0  |                                                            | 350899.607  | 6721322.425 | EPSG:28350 |
| 5002 | Breeding | Suitable | Eucalyptus accedens              | 580  | 1 | 0  |                                                            | 350909.048  | 6721316.454 | EPSG:28350 |
| 5003 | Breeding | Suitable | Eucalyptus accedens              | 320  | 1 | 2  |                                                            | 350971.307  | 6721315.702 | EPSG:28350 |
| 5004 | Breeding | Suitable | Eucalyptus accedens              | 490  | 1 | 1  |                                                            | 350988.98   | 6721297.367 | EPSG:28350 |
| 5005 | Breeding | Suitable | Eucalyptus accedens              | 620  | 1 | 0  |                                                            | 351073.71   | 6721290.701 | EPSG:28350 |
| 5006 | Breeding | Suitable | Eucalyptus accedens              | 500  | 2 | 0  | Owl flew out of adjacent hollow in the same tree (boobook) | 351087.387  | 6721289.033 | EPSG:28350 |
| 5007 | Breeding | Suitable | Eucalyptus accedens              | 600  | 1 | 0  | Most likely galah                                          | 351126.55   | 6721219.459 | EPSG:28350 |

|      |          |          |                     |     |   |   |                                                            |            |             |            |
|------|----------|----------|---------------------|-----|---|---|------------------------------------------------------------|------------|-------------|------------|
| 5008 | Breeding | Suitable | Eucalyptus accedens | 400 | 1 | 0 | Galah in hollow                                            | 351237.562 | 6721189.755 | EPSG:28350 |
| 5009 | Breeding | Suitable | Eucalyptus accedens | 500 | 2 | 0 |                                                            | 351198.181 | 6721241.956 | EPSG:28350 |
| 5010 | Breeding | Suitable | Eucalyptus accedens | 620 | 1 | 0 |                                                            | 351190.809 | 6721242.616 | EPSG:28350 |
| 5011 | Breeding | Suitable | Eucalyptus accedens | 310 | 2 | 0 | Evidence of grooming in the outside of the hollow          | 351173.474 | 6721262.158 | EPSG:28350 |
| 5012 | Breeding | Suitable | Eucalyptus accedens | 420 | 3 | 0 | Evidence of galahs using hollows                           | 351116.241 | 6721280.726 | EPSG:28350 |
| 5013 | Breeding | Suitable | Eucalyptus accedens | 382 | 2 | 0 |                                                            | 351094.678 | 6721319.245 | EPSG:28350 |
| 5014 | Breeding | Suitable | Eucalyptus accedens | 340 | 4 | 0 | Galah                                                      | 351101.852 | 6721329.835 | EPSG:28350 |
| 5015 | Breeding | Suitable | Eucalyptus accedens | 520 | 1 | 0 |                                                            | 351043.724 | 6721387.779 | EPSG:28350 |
| 5016 | Breeding | Suitable | Eucalyptus accedens | 740 | 3 | 0 | Bees in hollow                                             | 351110.067 | 6721425.941 | EPSG:28350 |
| 5017 | Breeding | Suitable | Eucalyptus accedens | 520 | 1 | 0 | Most likely galah chicks in hollow - could hear movement   | 351107.98  | 6721431.236 | EPSG:28350 |
| 5018 | Breeding | Suitable | Eucalyptus accedens | 480 | 3 | 0 |                                                            | 351114.644 | 6721451.33  | EPSG:28350 |
| 5019 | Breeding | Suitable | Eucalyptus accedens | 500 | 2 | 2 | Corellas                                                   | 351093.158 | 6721467.76  | EPSG:28350 |
| 5020 | Breeding | Suitable | Eucalyptus accedens | 390 | 1 | 1 |                                                            | 351065.85  | 6721450.071 | EPSG:28350 |
| 5021 | Breeding | Suitable | Eucalyptus accedens | 480 | 1 | 0 |                                                            | 351055.165 | 6721450.264 | EPSG:28350 |
| 5022 | Breeding | Suitable | Eucalyptus accedens | 480 | 2 | 0 | Movement inside hollow                                     | 351036.344 | 6721441.109 | EPSG:28350 |
| 5023 | Breeding | Suitable | Eucalyptus accedens | 400 | 1 | 0 |                                                            | 351032.267 | 6721429.461 | EPSG:28350 |
| 5024 | Breeding | Suitable | Eucalyptus accedens | 380 | 1 | 0 | Bird scat inside hollow                                    | 351036.445 | 6721418.941 | EPSG:28350 |
| 5025 | Breeding | Suitable | Eucalyptus accedens | 320 | 2 | 1 |                                                            | 350930.458 | 6721374.143 | EPSG:28350 |
| 5026 | Breeding | Suitable | Eucalyptus accedens | 420 | 3 | 0 |                                                            | 350941.204 | 6721382.559 | EPSG:28350 |
| 5027 | Breeding | Suitable | Eucalyptus accedens | 310 | 1 | 0 | Fresh leave at the bottom of the hollow - see go pro photo | 350947.375 | 6721376.569 | EPSG:28350 |
| 5028 | Breeding | Suitable | Eucalyptus accedens | 420 | 1 | 0 |                                                            | 350956.89  | 6721376.756 | EPSG:28350 |
| 5029 | Breeding | Suitable | Eucalyptus accedens | 460 | 3 | 0 | Dead stag                                                  | 350965.657 | 6721359.998 | EPSG:28350 |
| 5030 | Breeding | Suitable | Eucalyptus accedens | 380 | 1 | 0 |                                                            | 350964.893 | 6721352.266 | EPSG:28350 |
| 5031 | Breeding | Suitable | Eucalyptus accedens | 220 | 1 | 0 |                                                            | 350979.392 | 6721339.121 | EPSG:28350 |
| 5032 | Breeding | Suitable | Eucalyptus accedens | 340 | 2 | 0 |                                                            | 350993.898 | 6721338.934 | EPSG:28350 |
| 5033 | Breeding | Suitable | Eucalyptus accedens | 440 | 2 | 1 |                                                            | 350993.189 | 6721359.427 | EPSG:28350 |
| 5034 | Breeding | Suitable | Eucalyptus accedens | 340 | 2 | 1 |                                                            | 351001.107 | 6721363.404 | EPSG:28350 |
| 5035 | Breeding | Suitable | Eucalyptus accedens | 390 | 2 | 0 |                                                            | 351010.004 | 6721361.722 | EPSG:28350 |
| 5036 | Breeding | Suitable | Eucalyptus accedens | 400 | 2 | 0 |                                                            | 351022.929 | 6721352.86  | EPSG:28350 |
| 5037 | Breeding | Suitable | Eucalyptus accedens | 840 | 5 | 2 | Tree Martins nesting in hollows                            | 348877.416 | 6723105.59  | EPSG:28350 |
| 5038 | Breeding | Suitable | Eucalyptus accedens | 370 | 2 | 0 |                                                            | 348898.489 | 6723155.39  | EPSG:28350 |
| 5039 | Breeding | Suitable | Eucalyptus accedens | 340 | 1 | 0 | Bee hive                                                   | 348909.915 | 6723160.701 | EPSG:28350 |
| 5040 | Breeding | Suitable | Eucalyptus accedens | 400 | 2 | 0 |                                                            | 348947.64  | 6723154.95  | EPSG:28350 |
| 5042 | Breeding | Suitable | Eucalyptus accedens | 420 | 1 | 0 | Old leaf litter at the bottom of hollow                    | 348952.934 | 6723155.189 | EPSG:28350 |
| 5043 | Breeding | Suitable | Eucalyptus accedens | 630 | 1 | 0 |                                                            | 348953.09  | 6723156.404 | EPSG:28350 |
| 5045 | Breeding | Suitable | Eucalyptus accedens | 440 | 2 | 0 |                                                            | 348976.329 | 6723131.204 | EPSG:28350 |
| 5046 | Breeding | Suitable | Eucalyptus accedens | 630 | 1 | 0 |                                                            | 348975.797 | 6723092.992 | EPSG:28350 |
| 5047 | Breeding | Suitable | Eucalyptus accedens | 560 | 1 | 0 |                                                            | 349013.692 | 6723124.084 | EPSG:28350 |
| 5048 | Breeding | Suitable | Eucalyptus accedens | 570 | 3 | 0 |                                                            | 349022.786 | 6723124.768 | EPSG:28350 |
| 5049 | Breeding | Suitable | Eucalyptus accedens | 470 | 3 | 0 | Galahs nesting                                             | 349051.52  | 6723140.643 | EPSG:28350 |
| 5050 | Breeding | Suitable | Eucalyptus accedens | 460 | 1 | 0 |                                                            | 349047.972 | 6723169.385 | EPSG:28350 |
| 5051 | Breeding | Suitable | Eucalyptus accedens | 630 | 2 | 0 |                                                            | 349019.934 | 6723179.866 | EPSG:28350 |
| 5052 | Breeding | Suitable | Eucalyptus accedens | 430 | 2 | 0 |                                                            | 349030.072 | 6723213.862 | EPSG:28350 |
| 5053 | Breeding | Suitable | Eucalyptus accedens | 430 | 1 | 0 |                                                            | 349031.907 | 6723223.061 | EPSG:28350 |
| 5054 | Breeding | Suitable | Eucalyptus accedens | 400 | 1 | 0 |                                                            | 349040.021 | 6723225.607 | EPSG:28350 |
| 5055 | Breeding | Suitable | Eucalyptus accedens | 540 | 2 | 0 |                                                            | 349001.458 | 6723260.119 | EPSG:28350 |
| 5056 | Breeding | Suitable | Eucalyptus accedens | 360 | 1 | 0 | Leaf litter present                                        | 349002.102 | 6723250.722 | EPSG:28350 |
| 5057 | Breeding | Suitable | Eucalyptus accedens | 360 | 1 | 0 |                                                            | 348979.902 | 6723259.804 | EPSG:28350 |
| 5058 | Breeding | Suitable | Eucalyptus accedens | 360 | 1 | 0 | Leaf litter present                                        | 348960.696 | 6723267.345 | EPSG:28350 |
| 5059 | Breeding | Suitable | Eucalyptus accedens | 540 | 1 | 0 | Leaf litter present                                        | 348936.014 | 6723275.622 | EPSG:28350 |
| 5060 | Breeding | Suitable | Eucalyptus accedens | 380 | 1 | 0 |                                                            | 348914.643 | 6723291.076 | EPSG:28350 |
| 5061 | Breeding | Suitable | Eucalyptus accedens | 560 | 1 | 0 |                                                            | 348918.964 | 6723310.575 | EPSG:28350 |
| 5062 | Breeding | Suitable | Eucalyptus accedens | 370 | 2 | 0 | Some leaves at the bottom                                  | 348923.502 | 6723316.323 | EPSG:28350 |
| 5063 | Breeding | Suitable | Eucalyptus accedens | 470 | 1 | 0 |                                                            | 348907.214 | 6723329.276 | EPSG:28350 |
| 5064 | Breeding | Suitable | Eucalyptus accedens | 640 | 3 | 0 |                                                            | 348910.705 | 6723283.471 | EPSG:28350 |
| 5065 | Breeding | Suitable | Eucalyptus accedens | 470 | 1 | 0 |                                                            | 348860.087 | 6723272.221 | EPSG:28350 |
| 5066 | Breeding | Suitable | Eucalyptus accedens | 470 | 1 | 0 |                                                            | 348867.403 | 6723235.239 | EPSG:28350 |
| 5067 | Breeding | Suitable | Eucalyptus accedens | 560 | 2 | 0 |                                                            | 348878.88  | 6723222.365 | EPSG:28350 |
| 5068 | Breeding | Suitable | Eucalyptus accedens | 360 | 1 | 0 |                                                            | 348879.834 | 6723191.751 | EPSG:28350 |
| 5069 | Breeding | Suitable | Eucalyptus accedens | 580 | 2 | 0 |                                                            | 348879.147 | 6723187.923 | EPSG:28350 |
| 5070 | Breeding | Suitable | Eucalyptus accedens | 540 | 2 | 0 |                                                            | 348928.496 | 6723194.411 | EPSG:28350 |
| 5071 | Breeding | Suitable | Eucalyptus accedens | 380 | 1 | 0 |                                                            | 348928.88  | 6723201.779 | EPSG:28350 |
| 5072 | Breeding | Suitable | Eucalyptus accedens | 420 | 2 | 0 |                                                            | 348954.888 | 6723208.357 | EPSG:28350 |
| 5073 | Breeding | Suitable | Eucalyptus accedens | 340 | 1 | 0 |                                                            | 348956.463 | 6723221.67  | EPSG:28350 |

|      |          |          |                          |      |   |   |                                                              |            |             |            |
|------|----------|----------|--------------------------|------|---|---|--------------------------------------------------------------|------------|-------------|------------|
| 5074 | Breeding | Suitable | Eucalyptus accedens      | 640  | 1 | 0 |                                                              | 348985.45  | 6723223.007 | EPSG:28350 |
| 5075 | Breeding | Suitable | Eucalyptus accedens      | 680  | 1 | 1 |                                                              | 348993.027 | 6723200.527 | EPSG:28350 |
| 5076 | Breeding | Suitable | Eucalyptus accedens      | 380  | 1 | 0 |                                                              | 348960.005 | 6723235.77  | EPSG:28350 |
| 5077 | Breeding | Suitable | Eucalyptus accedens      | 680  | 1 | 0 |                                                              | 348961.208 | 6723251.114 | EPSG:28350 |
| 5078 | Breeding | Suitable | Eucalyptus accedens      | 520  | 1 | 3 |                                                              | 348934.285 | 6723246.254 | EPSG:28350 |
| 5079 | Breeding | Suitable | Eucalyptus accedens      | 530  | 3 | 0 |                                                              | 348908.047 | 6723209.731 | EPSG:28350 |
| 5080 | Breeding | Suitable | Eucalyptus accedens      | 620  | 2 | 0 |                                                              | 348587.908 | 6723569.007 | EPSG:28350 |
| 5081 | Breeding | Suitable | Eucalyptus accedens      | 610  | 2 | 1 | Good looking hollow with evidence of gnawing and leaf litter | 348593.789 | 6723577.837 | EPSG:28350 |
| 5082 | Breeding | Suitable | Eucalyptus accedens      | 590  | 3 | 0 |                                                              | 348627.404 | 6723607.339 | EPSG:28350 |
| 5083 | Breeding | Suitable | Eucalyptus accedens      | 510  | 1 | 0 |                                                              | 348639.624 | 6723597.127 | EPSG:28350 |
| 5084 | Breeding | Suitable | Eucalyptus accedens      | 410  | 2 | 0 |                                                              | 348677.471 | 6723680.33  | EPSG:28350 |
| 5085 | Breeding | Suitable | Eucalyptus accedens      | 400  | 2 | 0 |                                                              | 348716.119 | 6723671.846 | EPSG:28350 |
| 5086 | Breeding | Suitable | Eucalyptus accedens      | 560  | 3 | 3 | Tree Martins nesting in hollows                              | 348718.735 | 6723674.976 | EPSG:28350 |
| 5087 | Breeding | Suitable | Eucalyptus accedens      | 480  | 2 | 1 |                                                              | 348740.601 | 6723694.564 | EPSG:28350 |
| 5088 | Breeding | Suitable | Eucalyptus accedens      | 890  | 7 | 3 |                                                              | 348718.164 | 6723724.421 | EPSG:28350 |
| 5089 | Breeding | Suitable | Eucalyptus accedens      | 370  | 2 | 0 |                                                              | 348745.486 | 6723747.491 | EPSG:28350 |
| 5090 | Breeding | Suitable | Eucalyptus accedens      | 630  | 3 | 0 | Bees                                                         | 348851.164 | 6723744.089 | EPSG:28350 |
| 5091 | Breeding | Suitable | Eucalyptus accedens      | 700  | 2 | 3 |                                                              | 348872.032 | 6723735.765 | EPSG:28350 |
| 5092 | Breeding | Suitable | Eucalyptus accedens      | 500  | 3 | 0 | Galahs nesting in tree                                       | 348876.604 | 6723735.761 | EPSG:28350 |
| 5093 | Breeding | Suitable | Eucalyptus accedens      | 490  | 3 | 0 |                                                              | 348978.034 | 6723689.839 | EPSG:28350 |
| 5094 | Breeding | Suitable | Eucalyptus accedens      | 600  | 3 | 0 | Galahs and barn owl                                          | 348984.969 | 6723650.404 | EPSG:28350 |
| 5095 | Breeding | Suitable | Eucalyptus accedens      | 440  | 2 | 2 |                                                              | 348885.762 | 6723609.046 | EPSG:28350 |
| 5096 | Breeding | Suitable | Eucalyptus accedens      | 620  | 3 | 0 |                                                              | 348730.533 | 6723590.407 | EPSG:28350 |
| 5097 | Breeding | Suitable | Eucalyptus accedens      | 630  | 2 | 2 | Old leaves in hollow                                         | 348695.799 | 6723579.613 | EPSG:28350 |
| 5098 | Breeding | Suitable | Eucalyptus accedens      | 440  | 1 | 0 | What looks like pontentially old nesting material in hollow  | 348682.154 | 6723549.182 | EPSG:28350 |
| 5099 | Breeding | Suitable | Eucalyptus accedens      | 510  | 3 | 0 |                                                              | 348657.74  | 6723540.143 | EPSG:28350 |
| 5100 | Breeding | Suitable | Eucalyptus accedens      | 400  | 3 | 0 |                                                              | 348718.404 | 6723482.375 | EPSG:28350 |
| 5101 | Breeding | Suitable | Eucalyptus accedens      | 540  | 2 | 0 |                                                              | 348708.786 | 6723490.852 | EPSG:28350 |
| 5102 | Breeding | Suitable | Eucalyptus accedens      | 710  | 4 | 0 |                                                              | 348716.011 | 6723528.747 | EPSG:28350 |
| 5103 | Breeding | Suitable | Eucalyptus accedens      | 410  | 2 | 0 |                                                              | 348749.152 | 6723466.667 | EPSG:28350 |
| 5104 | Breeding | Suitable | Eucalyptus accedens      | 610  | 1 | 0 |                                                              | 348759.252 | 6723433.327 | EPSG:28350 |
| 5105 | Breeding | Suitable | Eucalyptus accedens      | 390  | 1 | 0 |                                                              | 348758.122 | 6723432.273 | EPSG:28350 |
| 5106 | Breeding | Suitable | Eucalyptus accedens      | 470  | 2 | 0 |                                                              | 348791.041 | 6723398.464 | EPSG:28350 |
| 5107 | Breeding | Suitable | Eucalyptus accedens      | 680  | 3 | 0 |                                                              | 348814.143 | 6723339.624 | EPSG:28350 |
| 5108 | Breeding | Suitable | Eucalyptus accedens      | 480  | 3 | 0 |                                                              | 348823.074 | 6723355.386 | EPSG:28350 |
| 5109 | Breeding | Suitable | Eucalyptus accedens      | 340  | 1 | 0 |                                                              | 348826.359 | 6723326.195 | EPSG:28350 |
| 5110 | Breeding | Suitable | Eucalyptus accedens      | 520  | 2 | 0 |                                                              | 348828.46  | 6723323.588 | EPSG:28350 |
| 5111 | Breeding | Suitable | Eucalyptus accedens      | 390  | 1 | 0 |                                                              | 348834.363 | 6723318.445 | EPSG:28350 |
| 5112 | Breeding | Suitable | Eucalyptus accedens      | 360  | 1 | 0 |                                                              | 348837.76  | 6723314.283 | EPSG:28350 |
| 5113 | Breeding | Suitable | Eucalyptus accedens      | 350  | 1 | 0 |                                                              | 348831.342 | 6723312.5   | EPSG:28350 |
| 5114 | Breeding | Suitable | Eucalyptus accedens      | 370  | 3 | 0 |                                                              | 348841.53  | 6723312.027 | EPSG:28350 |
| 5115 | Breeding | Suitable | Eucalyptus accedens      | 450  | 3 | 0 |                                                              | 348843.943 | 6723288.549 | EPSG:28350 |
| 5116 | Breeding | Suitable | Eucalyptus accedens      | 440  | 1 | 0 |                                                              | 348847.834 | 6723286.73  | EPSG:28350 |
| 5117 | Breeding | Suitable | Eucalyptus camaldulensis | 730  | 2 | 0 |                                                              | 347163.506 | 6722690.838 | EPSG:28350 |
| 5118 | Breeding | Suitable | Eucalyptus camaldulensis | 1200 | 2 | 0 |                                                              | 347174.248 | 6722694.821 | EPSG:28350 |
| 5119 | Breeding | Suitable | Eucalyptus camaldulensis | 610  | 2 | 0 |                                                              | 347190.342 | 6722704.644 | EPSG:28350 |
| 5120 | Breeding | Suitable | Eucalyptus camaldulensis | 690  | 2 | 0 | Galah chicks in hollow. Bee hive in other                    | 347175.845 | 6722702.879 | EPSG:28350 |
| 5121 | Breeding | Suitable | Eucalyptus camaldulensis | 700  | 1 | 2 |                                                              | 347168.752 | 6722706.805 | EPSG:28350 |
| 5122 | Breeding | Suitable | Eucalyptus camaldulensis | 790  | 3 | 0 | Bees in hollows                                              | 347157.75  | 6722710.858 | EPSG:28350 |
| 5123 | Breeding | Suitable | Eucalyptus camaldulensis | 1060 | 3 | 0 | 28s nesting in hollow                                        | 347148.647 | 6722720.019 | EPSG:28350 |
| 5124 | Breeding | Suitable | Eucalyptus camaldulensis | 750  | 1 | 0 |                                                              | 347160.787 | 6722730.757 | EPSG:28350 |
| 5124 | Breeding | Suitable | Eucalyptus camaldulensis | 910  | 2 | 0 | Nice big hollow with leaf litter but not active              | 347160.787 | 6722730.757 | EPSG:28350 |
| 5126 | Breeding | Suitable | Eucalyptus camaldulensis | 500  | 2 | 0 |                                                              | 347144.52  | 6722755.104 | EPSG:28350 |
| 5127 | Breeding | Suitable | Eucalyptus camaldulensis | 950  | 4 | 0 |                                                              | 347137.116 | 6722758.324 | EPSG:28350 |
| 5128 | Breeding | Suitable | Eucalyptus camaldulensis | 520  | 1 | 0 |                                                              | 347133.818 | 6722773.234 | EPSG:28350 |
| 5129 | Breeding | Suitable | Eucalyptus camaldulensis | 620  | 4 | 0 |                                                              | 347139.494 | 6722821.377 | EPSG:28350 |
| 5130 | Breeding | Suitable | Eucalyptus camaldulensis | 1070 | 2 | 0 |                                                              | 347171.554 | 6722775.66  | EPSG:28350 |

|      |          |          |                          |      |   |   |                                    |            |             |            |
|------|----------|----------|--------------------------|------|---|---|------------------------------------|------------|-------------|------------|
| 5131 | Breeding | Suitable | Eucalyptus camaldulensis | 720  | 1 | 1 | Good looking hollow - took a photo | 347164.662 | 6722773.829 | EPSG:28350 |
| 5132 | Breeding | Suitable | Eucalyptus camaldulensis | 840  | 1 | 1 |                                    | 347148.446 | 6722778.938 | EPSG:28350 |
| 5133 | Breeding | Suitable | Eucalyptus camaldulensis | 1400 | 1 | 1 |                                    | 347167.063 | 6722758.506 | EPSG:28350 |
| 5134 | Breeding | Suitable | Eucalyptus camaldulensis | 430  | 2 | 0 |                                    | 347164.139 | 6722756.812 | EPSG:28350 |
| 5135 | Breeding | Suitable | Eucalyptus camaldulensis | 430  | 1 | 0 | Galah chicks in hollow - see photo | 347175.029 | 6722748.066 | EPSG:28350 |
| 5136 | Breeding | Suitable | Eucalyptus camaldulensis | 960  | 2 | 0 | 2 nice large vertical hollows      | 347183.234 | 6722729.96  | EPSG:28350 |
| 5137 | Breeding | Suitable | Eucalyptus camaldulensis | 540  | 1 | 0 |                                    | 347208.457 | 6722727.583 | EPSG:28350 |
| 5138 | Breeding | Suitable | Eucalyptus camaldulensis | 1010 | 1 | 0 |                                    | 347224.381 | 6722752.575 | EPSG:28350 |
| 5139 | Breeding | Suitable | Eucalyptus camaldulensis | 820  | 3 | 0 |                                    | 347227.475 | 6722742.261 | EPSG:28350 |
| 5140 | Breeding | Suitable | Eucalyptus camaldulensis | 500  | 3 | 0 |                                    | 347235.182 | 6722739.477 | EPSG:28350 |
| 5141 | Breeding | Suitable | Eucalyptus camaldulensis | 1290 | 2 | 0 |                                    | 347252.651 | 6722739.682 | EPSG:28350 |
| 5142 | Breeding | Suitable | Eucalyptus camaldulensis | 400  | 2 | 0 |                                    | 347253.771 | 6722708.741 | EPSG:28350 |
| 5143 | Breeding | Suitable | Eucalyptus camaldulensis | 550  | 1 | 0 |                                    | 347261.139 | 6722696.667 | EPSG:28350 |
| 5144 | Breeding | Suitable | Eucalyptus camaldulensis | 390  | 1 | 0 |                                    | 347256.557 | 6722691.708 | EPSG:28350 |
| 5145 | Breeding | Suitable | Eucalyptus camaldulensis | 560  | 3 | 0 |                                    | 347269.418 | 6722687.903 | EPSG:28350 |
| 5146 | Breeding | Suitable | Eucalyptus camaldulensis | 660  | 3 | 0 |                                    | 347199.912 | 6722703.382 | EPSG:28350 |
| 5147 | Breeding | Suitable | Eucalyptus accedens      | 330  | 1 | 0 |                                    | 341396.144 | 6722065.309 | EPSG:28350 |
| 5148 | Breeding | Suitable | Eucalyptus camaldulensis | 520  | 1 | 0 |                                    | 341401.554 | 6722091.217 | EPSG:28350 |
| 5149 | Breeding | Suitable | Eucalyptus accedens      | 600  | 1 | 0 |                                    | 341359.411 | 6722041.808 | EPSG:28350 |
| 5150 | Breeding | Suitable | Eucalyptus accedens      | 410  | 1 | 0 |                                    | 341244.151 | 6721913.988 | EPSG:28350 |
| 5151 | Breeding | Suitable | Eucalyptus accedens      | 590  | 5 | 0 |                                    | 341227.624 | 6721903.004 | EPSG:28350 |
| 5153 | Breeding | Suitable | Eucalyptus accedens      | 420  | 1 | 0 |                                    | 341241.904 | 6721865.325 | EPSG:28350 |
| 5154 | Breeding | Suitable | Eucalyptus accedens      | 480  | 2 | 0 |                                    | 341299.115 | 6721879.276 | EPSG:28350 |
| 5155 | Breeding | Suitable | Eucalyptus accedens      | 360  | 1 | 2 |                                    | 341290.709 | 6721851.682 | EPSG:28350 |
| 5156 | Breeding | Suitable | Eucalyptus accedens      | 360  | 1 | 0 |                                    | 341305.372 | 6721848.012 | EPSG:28350 |
| 5157 | Breeding | Suitable | Eucalyptus accedens      | 500  | 1 | 0 |                                    | 341285.761 | 6721839.718 | EPSG:28350 |
| 5158 | Breeding | Suitable | Eucalyptus accedens      | 330  | 1 | 0 |                                    | 341278.755 | 6721838.786 | EPSG:28350 |
| 5159 | Breeding | Suitable | Eucalyptus accedens      | 400  | 1 | 2 |                                    | 341242.078 | 6721814.404 | EPSG:28350 |
| 5160 | Breeding | Suitable | Eucalyptus accedens      | 390  | 1 | 1 |                                    | 341242.553 | 6721807.764 | EPSG:28350 |
| 5161 | Breeding | Suitable | Eucalyptus accedens      | 400  | 2 | 0 |                                    | 341285.084 | 6721804.758 | EPSG:28350 |
| 5162 | Breeding | Suitable | Eucalyptus accedens      | 410  | 3 | 0 |                                    | 341298.733 | 6721776.459 | EPSG:28350 |
| 5162 | Breeding | Suitable | Eucalyptus accedens      | 420  | 2 | 0 |                                    | 341298.733 | 6721776.459 | EPSG:28350 |
| 5163 | Breeding | Suitable | Eucalyptus accedens      | 520  | 3 | 0 |                                    | 341271.223 | 6721717.287 | EPSG:28350 |
| 5164 | Breeding | Suitable | Eucalyptus accedens      | 440  | 2 | 0 |                                    | 341240.25  | 6721703.325 | EPSG:28350 |
| 5165 | Breeding | Suitable | Eucalyptus accedens      | 320  | 1 | 0 |                                    | 341237.497 | 6721687.225 | EPSG:28350 |
| 5166 | Breeding | Suitable | Eucalyptus accedens      | 430  | 2 | 0 |                                    | 341308.326 | 6721722.56  | EPSG:28350 |
| 5167 | Breeding | Suitable | Eucalyptus accedens      | 430  | 1 | 0 |                                    | 341311.609 | 6721732.292 | EPSG:28350 |
| 5168 | Breeding | Suitable | Eucalyptus accedens      | 550  | 1 | 0 |                                    | 341314.681 | 6721745.305 | EPSG:28350 |
| 5169 | Breeding | Suitable | Eucalyptus accedens      | 560  | 1 | 0 |                                    | 341338.917 | 6721743.74  | EPSG:28350 |
| 5170 | Breeding | Suitable | Eucalyptus accedens      | 410  | 1 | 1 |                                    | 341340.424 | 6721744.006 | EPSG:28350 |
| 5171 | Breeding | Suitable | Eucalyptus accedens      | 350  | 1 | 0 |                                    | 341353.458 | 6721737.531 | EPSG:28350 |
| 5172 | Breeding | Suitable | Eucalyptus accedens      | 560  | 2 | 1 |                                    | 341368.592 | 6721760.832 | EPSG:28350 |
| 5173 | Breeding | Suitable | Eucalyptus accedens      | 430  | 3 | 0 |                                    | 341386.342 | 6721746.706 | EPSG:28350 |
| 5174 | Breeding | Suitable | Eucalyptus accedens      | 250  | 1 | 0 |                                    | 341386.216 | 6721743.8   | EPSG:28350 |
| 5175 | Breeding | Suitable | Eucalyptus accedens      | 450  | 1 | 0 |                                    | 341406.984 | 6721788.302 | EPSG:28350 |
| 5176 | Breeding | Suitable | Eucalyptus accedens      | 380  | 1 | 0 |                                    | 341404.547 | 6721794.852 | EPSG:28350 |
| 5177 | Breeding | Suitable | Eucalyptus accedens      | 500  | 1 | 2 |                                    | 341414.464 | 6721799.828 | EPSG:28350 |
| 5178 | Breeding | Suitable | Eucalyptus accedens      | 540  | 2 | 0 |                                    | 341378.614 | 6721795.048 | EPSG:28350 |
| 5179 | Breeding | Suitable | Eucalyptus accedens      | 530  | 3 | 0 |                                    | 341330.328 | 6721797.278 | EPSG:28350 |
| 5180 | Breeding | Suitable | Eucalyptus accedens      | 460  | 3 | 0 |                                    | 341411.301 | 6721831.514 | EPSG:28350 |
| 5181 | Breeding | Suitable | Eucalyptus accedens      | 260  | 1 | 0 |                                    | 341429.015 | 6721869.03  | EPSG:28350 |
| 5182 | Breeding | Suitable | Eucalyptus accedens      | 350  | 1 | 0 |                                    | 341456.278 | 6721908.046 | EPSG:28350 |
| 5183 | Breeding | Suitable | Eucalyptus accedens      | 430  | 2 | 0 |                                    | 341464.065 | 6721918.668 | EPSG:28350 |
| 5184 | Breeding | Suitable | Eucalyptus accedens      | 490  | 1 | 0 |                                    | 341469.192 | 6721912.146 | EPSG:28350 |
| 5185 | Breeding | Suitable | Eucalyptus accedens      | 340  | 1 | 0 |                                    | 341466.247 | 6721949.384 | EPSG:28350 |
| 5186 | Breeding | Suitable | Eucalyptus accedens      | 450  | 1 | 0 |                                    | 341455.165 | 6722031.058 | EPSG:28350 |
| 5187 | Breeding | Suitable | Eucalyptus accedens      | 440  | 1 | 1 |                                    | 341449.458 | 6721727.094 | EPSG:28350 |
| 5188 | Breeding | Suitable | Eucalyptus accedens      | 350  | 1 | 0 |                                    | 341201.488 | 6721689.654 | EPSG:28350 |
| 5189 | Breeding | Suitable | Eucalyptus accedens      | 740  | 1 | 2 |                                    | 341183.161 | 6721639.524 | EPSG:28350 |

|      |          |          |                     |     |   |   |                          |            |             |            |
|------|----------|----------|---------------------|-----|---|---|--------------------------|------------|-------------|------------|
| 5190 | Breeding | Suitable | Eucalyptus accedens | 490 | 1 | 0 |                          | 341008.37  | 6720669.655 | EPSG:28350 |
| 5191 | Breeding | Suitable | Eucalyptus accedens | 690 | 2 | 0 |                          | 340995.391 | 6720625.414 | EPSG:28350 |
| 5192 | Breeding | Suitable | Eucalyptus accedens | 510 | 4 | 3 |                          | 340953.346 | 6720526.804 | EPSG:28350 |
| 5193 | Breeding | Suitable | Eucalyptus accedens | 330 | 1 | 1 |                          | 340923.39  | 6720472.235 | EPSG:28350 |
| 5194 | Breeding | Suitable | Eucalyptus accedens | 400 | 1 | 0 |                          | 340918.113 | 6720455.14  | EPSG:28350 |
| 5195 | Breeding | Suitable | Eucalyptus accedens | 310 | 1 | 0 |                          | 340915.299 | 6720454.224 | EPSG:28350 |
| 5196 | Breeding | Suitable | Eucalyptus accedens | 540 | 2 | 0 |                          | 340901.7   | 6720429.582 | EPSG:28350 |
| 5197 | Breeding | Suitable | Eucalyptus accedens | 380 | 1 | 0 |                          | 340847.701 | 6720351.095 | EPSG:28350 |
| 5198 | Breeding | Suitable | Eucalyptus accedens | 520 | 1 | 0 |                          | 340836.81  | 6720351.185 | EPSG:28350 |
| 5199 | Breeding | Suitable | Eucalyptus accedens | 380 | 2 | 1 |                          | 340871.899 | 6720336.071 | EPSG:28350 |
| 5200 | Breeding | Suitable | Eucalyptus accedens | 480 | 1 | 2 |                          | 340863.391 | 6720307.51  | EPSG:28350 |
| 5201 | Breeding | Suitable | Eucalyptus accedens | 550 | 1 | 0 |                          | 340840.628 | 6720324.247 | EPSG:28350 |
| 5202 | Breeding | Suitable | Eucalyptus accedens | 600 | 3 | 0 |                          | 340817.841 | 6720276.589 | EPSG:28350 |
| 5203 | Breeding | Suitable | Eucalyptus accedens | 470 | 1 | 2 |                          | 340811.434 | 6720260.888 | EPSG:28350 |
| 5204 | Breeding | Suitable | Eucalyptus accedens | 360 | 1 | 0 | 4 galah chicks in hollow | 340831.22  | 6720249.015 | EPSG:28350 |
| 5205 | Breeding | Suitable | Eucalyptus accedens | 330 | 1 | 0 |                          | 340820.055 | 6720223.388 | EPSG:28350 |
| 5206 | Breeding | Suitable | Eucalyptus accedens | 390 | 1 | 0 |                          | 340814.228 | 6720197.45  | EPSG:28350 |
| 5207 | Breeding | Suitable | Eucalyptus accedens | 350 | 1 | 0 |                          | 340821.712 | 6720194.917 | EPSG:28350 |
| 5208 | Breeding | Suitable | Eucalyptus accedens | 360 | 2 | 0 |                          | 340811.722 | 6720178.039 | EPSG:28350 |
| 5209 | Breeding | Suitable | Eucalyptus accedens | 340 | 1 | 0 |                          | 340779.751 | 6720140.508 | EPSG:28350 |
| 5210 | Breeding | Suitable | Eucalyptus accedens | 550 | 1 | 0 |                          | 340752.778 | 6720117.944 | EPSG:28350 |
| 5211 | Breeding | Suitable | Eucalyptus accedens | 460 | 1 | 0 |                          | 340650.396 | 6719982.636 | EPSG:28350 |
| 5212 | Breeding | Suitable | Eucalyptus accedens | 620 | 2 | 0 |                          | 340642.018 | 6719962.464 | EPSG:28350 |
| 5213 | Breeding | Suitable | Eucalyptus accedens | 330 | 1 | 0 |                          | 340529.592 | 6719933.128 | EPSG:28350 |
| 5214 | Breeding | Suitable | Eucalyptus accedens | 510 | 1 | 0 |                          | 340507.548 | 6719832.764 | EPSG:28350 |
| 5215 | Breeding | Suitable | Eucalyptus accedens | 530 | 1 | 0 |                          | 340505.884 | 6719835.029 | EPSG:28350 |
| 5216 | Breeding | Suitable | Eucalyptus accedens | 400 | 1 | 0 |                          | 340535.074 | 6719789.304 | EPSG:28350 |
| 5217 | Breeding | Suitable | Eucalyptus accedens | 480 | 1 | 0 |                          | 340603.226 | 6719864.556 | EPSG:28350 |
| 5218 | Breeding | Suitable | Eucalyptus accedens | 500 | 1 | 1 |                          | 340760.893 | 6720057.287 | EPSG:28350 |
| 5219 | Breeding | Suitable | Eucalyptus accedens | 390 | 1 | 0 |                          | 340780.181 | 6720056.006 | EPSG:28350 |
| 5220 | Breeding | Suitable | Eucalyptus accedens | 530 | 1 | 3 |                          | 340814.5   | 6720120.01  | EPSG:28350 |
| 5221 | Breeding | Suitable | Eucalyptus accedens | 550 | 1 | 0 |                          | 340834.08  | 6720144.985 | EPSG:28350 |
| 5222 | Breeding | Suitable | Eucalyptus accedens | 510 | 1 | 0 |                          | 340840.756 | 6720158.051 | EPSG:28350 |
| 5223 | Breeding | Suitable | Eucalyptus accedens | 450 | 1 | 0 |                          | 340861.285 | 6720243.571 | EPSG:28350 |
| 5224 | Breeding | Suitable | Eucalyptus accedens | 510 | 1 | 0 |                          | 340879.461 | 6720258.883 | EPSG:28350 |
| 5225 | Breeding | Suitable | Eucalyptus accedens | 460 | 2 | 0 |                          | 340883.252 | 6720266.667 | EPSG:28350 |
| 5227 | Breeding | Suitable | Eucalyptus accedens | 740 | 1 | 1 |                          | 340872.14  | 6720294.515 | EPSG:28350 |
| 5228 | Breeding | Suitable | Eucalyptus accedens | 620 | 2 | 1 |                          | 340888.504 | 6720278.877 | EPSG:28350 |
| 5229 | Breeding | Suitable | Eucalyptus accedens | 500 | 1 | 0 |                          | 340883.657 | 6720283.378 | EPSG:28350 |
| 5230 | Breeding | Suitable | Eucalyptus accedens | 640 | 1 | 0 |                          | 340897.771 | 6720323.66  | EPSG:28350 |
| 5231 | Breeding | Suitable | Eucalyptus accedens | 260 | 1 | 2 |                          | 340906.067 | 6720337.178 | EPSG:28350 |
| 5232 | Breeding | Suitable | Eucalyptus accedens | 340 | 2 | 2 |                          | 341580.788 | 6722186.045 | EPSG:28350 |
| 5233 | Breeding | Suitable | Eucalyptus accedens | 420 | 1 | 0 |                          | 341583.655 | 6722210.107 | EPSG:28350 |
| 5234 | Breeding | Suitable | Eucalyptus accedens | 310 | 1 | 0 |                          | 341596.97  | 6722226.668 | EPSG:28350 |
| 5235 | Breeding | Suitable | Eucalyptus accedens | 400 | 1 | 0 |                          | 341598.502 | 6722267.24  | EPSG:28350 |
| 5236 | Breeding | Suitable | Eucalyptus accedens | 550 | 2 | 0 |                          | 341604.442 | 6722274.479 | EPSG:28350 |
| 5237 | Breeding | Suitable | Eucalyptus accedens | 480 | 2 | 0 |                          | 341600.647 | 6722287.82  | EPSG:28350 |
| 5238 | Breeding | Suitable | Eucalyptus accedens | 450 | 1 | 3 |                          | 341592.605 | 6722295.282 | EPSG:28350 |
| 5239 | Breeding | Suitable | Eucalyptus accedens | 310 | 1 | 0 |                          | 341603.055 | 6722335.701 | EPSG:28350 |
| 5240 | Breeding | Suitable | Eucalyptus accedens | 420 | 1 | 0 |                          | 341623.076 | 6722322.733 | EPSG:28350 |
| 5241 | Breeding | Suitable | Eucalyptus accedens | 400 | 2 | 1 |                          | 341626.335 | 6722336.983 | EPSG:28350 |
| 5242 | Breeding | Suitable | Eucalyptus accedens | 490 | 2 | 0 |                          | 341651.63  | 6722334.657 | EPSG:28350 |
| 5243 | Breeding | Suitable | Eucalyptus accedens | 370 | 2 | 0 |                          | 341650.785 | 6722324.238 | EPSG:28350 |
| 5244 | Breeding | Suitable | Eucalyptus accedens | 380 | 1 | 0 |                          | 341630.457 | 6722310.475 | EPSG:28350 |
| 5245 | Breeding | Suitable | Eucalyptus accedens | 310 | 1 | 0 | Leaf litter in hollow    | 341633.876 | 6722293.513 | EPSG:28350 |
| 5246 | Breeding | Suitable | Eucalyptus accedens | 630 | 1 | 0 |                          | 341630.673 | 6722289.696 | EPSG:28350 |
| 5247 | Breeding | Suitable | Eucalyptus accedens | 470 | 1 | 0 |                          | 341620.509 | 6722273.622 | EPSG:28350 |
| 5248 | Breeding | Suitable | Eucalyptus accedens | 350 | 1 | 0 |                          | 341614.133 | 6722275.42  | EPSG:28350 |
| 5249 | Breeding | Suitable | Eucalyptus accedens | 360 | 1 | 0 |                          | 341607.22  | 6722266.409 | EPSG:28350 |
| 5250 | Breeding | Suitable | Eucalyptus accedens | 470 | 1 | 0 |                          | 341607.614 | 6722256.335 | EPSG:28350 |
| 5251 | Breeding | Suitable | Eucalyptus accedens | 400 | 2 | 0 |                          | 341617.957 | 6722253.189 | EPSG:28350 |
| 5252 | Breeding | Suitable | Eucalyptus accedens | 470 | 1 | 0 |                          | 341623.007 | 6722218.986 | EPSG:28350 |
| 5252 | Breeding | Suitable | Eucalyptus accedens | 640 | 1 | 0 |                          | 341623.007 | 6722218.986 | EPSG:28350 |
| 5253 | Breeding | Suitable | Eucalyptus accedens | 520 | 1 | 1 |                          | 341619.196 | 6722210.877 | EPSG:28350 |
| 5254 | Breeding | Suitable | Eucalyptus accedens | 480 | 1 | 0 |                          | 341639.245 | 6722226.916 | EPSG:28350 |

|      |          |          |                                  |     |   |   |                   |            |             |            |
|------|----------|----------|----------------------------------|-----|---|---|-------------------|------------|-------------|------------|
| 5255 | Breeding | Suitable | Eucalyptus accedens              | 560 | 1 | 0 |                   | 341639.623 | 6722205.726 | EPSG:28350 |
| 5256 | Breeding | Suitable | Eucalyptus accedens              | 300 | 1 | 0 |                   | 341653.619 | 6722179.42  | EPSG:28350 |
| 5257 | Breeding | Suitable | Eucalyptus accedens              | 490 | 1 | 0 |                   | 341609.501 | 6722194.176 | EPSG:28350 |
| 5258 | Breeding | Suitable | Eucalyptus accedens              | 490 | 1 | 0 |                   | 342316.667 | 6721948.054 | EPSG:28350 |
| 5259 | Breeding | Suitable | Eucalyptus accedens              | 370 | 1 | 0 |                   | 342427.809 | 6721650.233 | EPSG:28350 |
| 5260 | Breeding | Suitable | Eucalyptus accedens              | 480 | 1 | 0 |                   | 342727.927 | 6721467.058 | EPSG:28350 |
| 5261 | Breeding | Suitable | Eucalyptus accedens              | 520 | 1 | 0 |                   | 342759.325 | 6721516.605 | EPSG:28350 |
| 5263 | Breeding | Suitable | Eucalyptus accedens              | 520 | 2 | 0 |                   | 342738.401 | 6721528.544 | EPSG:28350 |
| 5264 | Breeding | Suitable | Eucalyptus accedens              | 440 | 3 | 0 |                   | 342718.587 | 6721611.86  | EPSG:28350 |
| 5265 | Breeding | Suitable | Eucalyptus accedens              | 450 | 1 | 0 |                   | 342719.251 | 6721614.8   | EPSG:28350 |
| 5266 | Breeding | Suitable | Eucalyptus accedens              | 440 | 1 | 5 |                   | 342671.884 | 6721690.164 | EPSG:28350 |
| 5267 | Breeding | Suitable | Eucalyptus accedens              | 500 | 1 | 0 |                   | 342670.05  | 6721723.482 | EPSG:28350 |
| 5268 | Breeding | Suitable | Eucalyptus accedens              | 430 | 2 | 0 |                   | 341566.893 | 6720858.364 | EPSG:28350 |
| 5269 | Breeding | Suitable | Eucalyptus accedens              | 630 | 1 | 3 |                   | 341553.632 | 6720872.033 | EPSG:28350 |
| 5270 | Breeding | Suitable | Eucalyptus accedens              | 390 | 1 | 0 |                   | 341541.875 | 6720864.442 | EPSG:28350 |
| 5271 | Breeding | Suitable | Eucalyptus accedens              | 400 | 1 | 0 |                   | 359886.311 | 6717508.342 | EPSG:28350 |
| 5272 | Breeding | Suitable | Eucalyptus accedens              | 520 | 1 | 0 |                   | 359893.786 | 6717491.377 | EPSG:28350 |
| 5273 | Breeding | Suitable | Eucalyptus accedens              | 550 | 1 | 0 |                   | 359874.239 | 6717500.197 | EPSG:28350 |
| 5274 | Breeding | Suitable | Eucalyptus camaldulensis         | 660 | 1 | 0 |                   | 360549.092 | 6718435.787 | EPSG:28350 |
| 5275 | Breeding | Suitable | Eucalyptus camaldulensis         | 810 | 1 | 2 |                   | 360560.03  | 6718437.011 | EPSG:28350 |
| 5276 | Breeding | Suitable | Eucalyptus camaldulensis         | 880 | 1 | 0 | Galahs            | 360541.934 | 6718449.992 | EPSG:28350 |
| 5277 | Breeding | Suitable | Eucalyptus camaldulensis         | 960 | 2 | 0 |                   | 360526.7   | 6718457.736 | EPSG:28350 |
| 5278 | Breeding | Suitable | Eucalyptus camaldulensis         | 920 | 3 | 0 | Barn owl flew out | 360521.556 | 6718500.333 | EPSG:28350 |
| 5279 | Breeding | Suitable | Eucalyptus camaldulensis         | 780 | 1 | 0 |                   | 360475.089 | 6718529.816 | EPSG:28350 |
| 5280 | Breeding | Suitable | Eucalyptus camaldulensis         | 700 | 1 | 0 |                   | 360465.222 | 6718536.947 | EPSG:28350 |
| 5281 | Breeding | Suitable | Eucalyptus accedens              | 460 | 1 | 0 |                   | 362071.879 | 6719802.746 | EPSG:28350 |
| 5282 | Breeding | Suitable | Eucalyptus accedens              | 500 | 1 | 0 |                   | 362082.396 | 6719873.395 | EPSG:28350 |
| 5283 | Breeding | Suitable | Eucalyptus camaldulensis         | 460 | 1 | 0 |                   | 346373.102 | 6717795.59  | EPSG:28350 |
| 5284 | Breeding | Suitable | Eucalyptus camaldulensis         | 710 | 1 | 0 |                   | 346605.86  | 6718221.225 | EPSG:28350 |
| 5285 | Breeding | Suitable | Eucalyptus camaldulensis         | 400 | 1 | 0 |                   | 346570.682 | 6718236.661 | EPSG:28350 |
| 5286 | Breeding | Suitable | Eucalyptus camaldulensis         | 550 | 1 | 0 |                   | 346555.458 | 6718323.042 | EPSG:28350 |
| 5287 | Breeding | Suitable | Eucalyptus camaldulensis         | 690 | 1 | 0 |                   | 346557.171 | 6718338.497 | EPSG:28350 |
| 5288 | Breeding | Suitable | Eucalyptus camaldulensis         | 450 | 1 | 0 |                   | 346599.941 | 6718270.79  | EPSG:28350 |
| 5290 | Breeding | Suitable | Eucalyptus loxophleba loxophleba | 940 | 6 | 0 |                   | 346622.73  | 6719157.405 | EPSG:28350 |
| 5291 | Breeding | Suitable | Eucalyptus loxophleba loxophleba | 880 | 4 | 2 |                   | 346638.575 | 6719176.468 | EPSG:28350 |

## Appendix F      Site Visit of Adjacent Land Parcel

Following completion of the Basic and Targeted Fauna Survey, an adjacent land parcel ('Adjacent Land Parcel') was added to the proposed Project Area (**Figure F-1**). Twin Hills Wind Farm Pty Ltd, care of Wind Prospect Pty Ltd (Wind Prospect) commissioned Stantec to undertake a site visit of the development envelope (**Figure F-1**) within the Adjacent Land Parcel, upon which non-turbine infrastructure may be installed for the Project.

During the Q2 2025 and Q3 2025 BBUSs, Stantec zoologists Jasmine Ridley, Jasmin Pratt, Lachlan Wild and Joey Laugharne conducted two single-day site visits to the development envelope of the Adjacent Land Parcel. The purpose of the visits was to assess and map fauna habitats, with a focus on identifying those of importance to significant fauna including Carnaby's Black-Cockatoo foraging, breeding and roosting habitat.

Within the development envelope of the adjacent land parcel, four habitat types were identified (**Table F-1; Figure F-1**) including 7.90 ha of high-quality Carnaby's Black-Cockatoo foraging habitat. No confirmed or suitable breeding trees were identified. Three potential breeding trees were recorded (**Table F-2; Figure F-2**).

**Table F-1: Fauna habitats in development envelope of Adjacent Land Parcel.**

| Habitat Type                           | Carnaby's Black-Cockatoo foraging score | Extent within development envelope of Adjacent Land Parcel |            |
|----------------------------------------|-----------------------------------------|------------------------------------------------------------|------------|
|                                        |                                         | ha                                                         | %          |
| Cleared (paddock/crop /infrastructure) | 0                                       | 192.02                                                     | 89.48      |
| Open Woodland on Farmland              | 0                                       | 14.69                                                      | 6.84       |
| Low Eucalypt Woodland                  | 10                                      | 4.89                                                       | 2.28       |
| Diverse Shrubland and Heath            | 10                                      | 3.01                                                       | 1.40       |
| <b>Total</b>                           |                                         | <b>214.61</b>                                              | <b>100</b> |

**Table F-2: Black-Cockatoo breeding trees in development envelope of Adjacent Land Parcel.**

| Breeding Tree Category   | Count within development envelope of Adjacent Land Parcel |
|--------------------------|-----------------------------------------------------------|
| Potential Breeding Trees | 3 ( <i>Eucalyptus accedens</i> )                          |
| Suitable Breeding Trees  | 0                                                         |
| Confirmed Breeding Trees | 0                                                         |
| <b>Total</b>             | <b>3</b>                                                  |

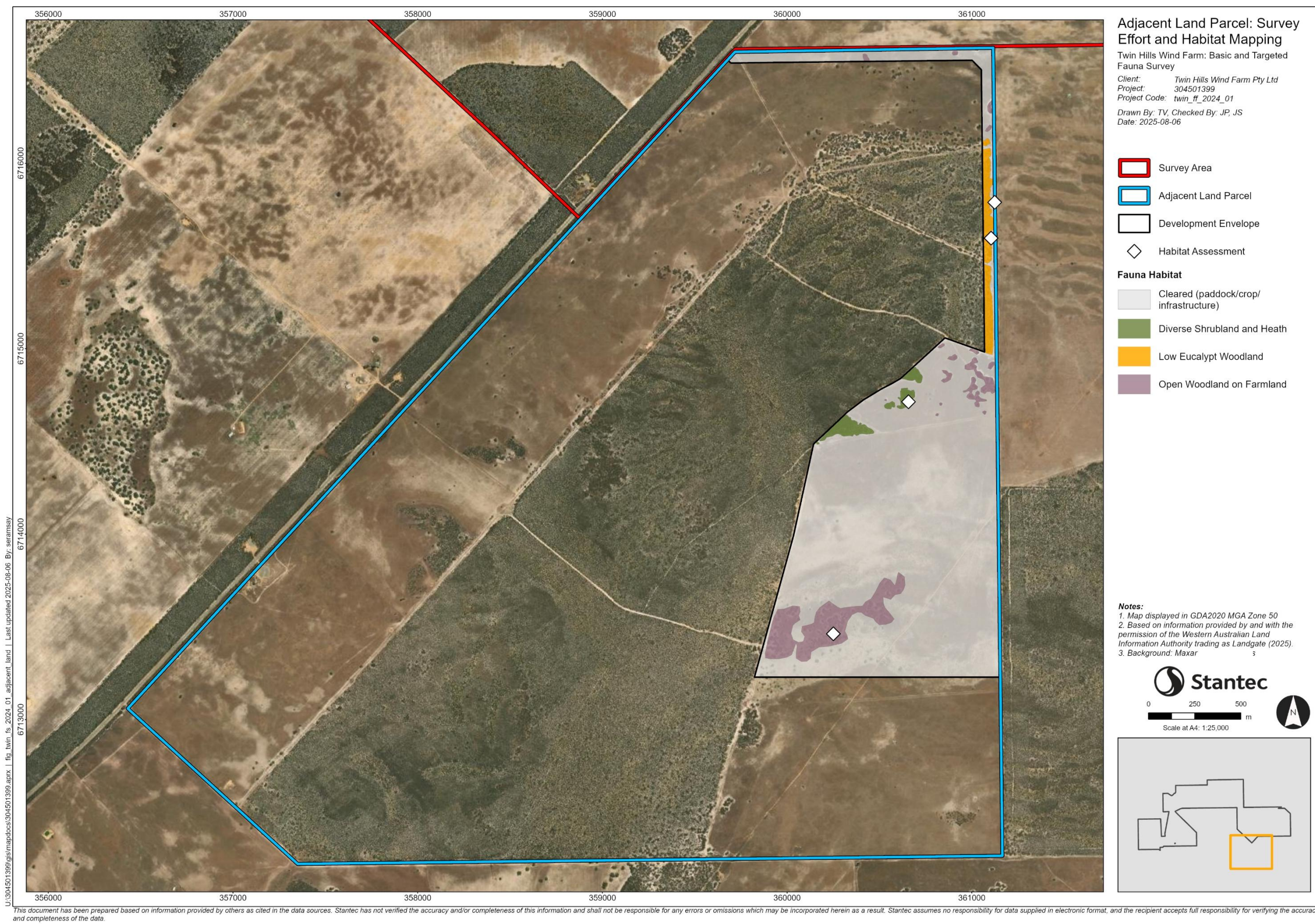


Figure F-1: Fauna habitat mapping within the development envelope of Adjacent Land Parcel.



Figure F-2: Carnaby's Black-Cockatoo foraging and breeding habitat within development envelope of Adjacent Land Parcel.

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