

ECOSPHERE
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Baseline and Targeted Ecological Assessment of the Cleve Wind Farm Project area

19 December 2024

Document Information and Distribution

Document information	
Item	Detail
Project number	L30707
Document title	Baseline and Targeted Ecological Assessment of the Cleve Wind Farm Project area December 2024
Client	AECOM
Document status	Draft
Version number	2

Document distribution				
Authors	Document status	Version number	Date of issue	Issued to
Andrew Sinel, Nina Maurovic	Draft	1	03/05/2024	Tom Hatelly AECOM
Andrew Sinel, Nina Maurovic	Draft	2	19/12/2024	Tom Hatelly AECOM

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Executive Summary


The Cleve Wind Farm (CWF) ecological assessment was undertaken to assess potential impacts on flora and fauna values within the approximately 23,840 ha CWF Project area. The assessment primarily focused on turbine sites, cable routes, and access tracks. The assessment consisted of an initial desktop study followed by two field surveys targeting national and state threatened species and communities, along with other ecologically significant matters within the wider area.

Results of the desktop assessment indicated that the Project area consisted predominantly of agricultural land use with approximately 30% remnant vegetation found mainly in protected reserves, heritage agreements, and along road reserves and riparian corridors. Although there were numerous records for conservation significant flora and fauna within the Project area, these records were predominantly linked to protected reserves.

The NVC Bushland Assessment Methods were used to survey all areas of native vegetation interacting with the project footprint. Eight broad vegetation associations were recorded within the Project area including one Threatened Ecological Community (TEC). Eyre Peninsula Blue Gum (*Eucalyptus petiolaris*) Woodland Ecological communities are listed as Endangered under the EPBC Act. Additionally, three species of flora of state conservation significance were identified within the Project area, *Daviesia pectinata* (Zig-zag Bitter-pea, NPW: R), *Eucalyptus cretata* (Darke Peak Mallee, NPW: R) and *Sarcozona bicarinata* (Ridged Noon-flower, NPW: V). The locations of these threatened species and communities have been mapped and clearance should be avoided where possible.

Each Wind Turbine Generator (WTG) position, along with its associated stringline and road access, were surveyed for potential impacts to native vegetation. While some WTGs and stringlines were situated in cleared paddocks, posing no risk to native vegetation, others were positioned near or within larger patches of vegetation, some of which held significant ecological value. Marginal adjustments to the positioning of many WTGs could be made to minimise the impact on vegetation. However, some WTGs may need to be relocated to prevent clearance of areas with high ecological value. Recommendations for each turbine site have been included in the report.

Avian surveys were conducted to establish a baseline of bird species present within the Project area, with targeted efforts focused on threatened avian species likely to inhabit the wider Project area, including the Diamond Firetail (*Stagonopleura guttata*, EPBC: VU, NPW: V) and Malleefowl (*Leipoa ocellata*, EPBC: VU, NPW: V). All areas of suitable habitat were targeted with a particular emphasis on water sources for the Diamond Firetail and ground-truthing past records for Malleefowl. Additionally, large trees that could potentially serve as nest sites for Wedge-tailed Eagles (*Aquila audax*) were assessed throughout the entire Project area. Diamond Firetail



were observed within the CWF Project area with suitable habitat identified across the wider Project area, while habitat for the Malleefowl was restricted to areas of native vegetation already protected under heritage agreements and conservation parks.

Potential direct impacts from the project include native vegetation clearance, fauna habitat fragmentation, disturbance, and the risk of injury and mortality to fauna. However, it is anticipated that the majority of these impacts can be avoided, minimised, or mitigated through the implementation of various measures during the detailed design phase.

Recommendations for minimising impacts include the following:

- Micro-siting efforts should prioritise the avoidance of native vegetation clearance wherever feasible.
- Align wind turbines, cable routes, and access tracks to impact cleared landscapes and avoid areas with higher ecological value.
- Prioritise the avoidance of habitat fragmentation to mitigate negative effects on species populations, including edge effects and reduced gene flow and focus on preserving habitat connectivity, particularly for threatened species and communities.
- Identify and highlight nest sites for resident species with specific foraging strategies, such as soaring, gliding, and low flight patterns, to ensure adequate buffers for habitat sustainability.
- Further surveys to rule out the presence of conservation significant bat species, and densities of other bat species.

Glossary

Abbreviation	Description
AHD	Australian Height Datum
BAM	Bushland Assessment Method
BDBSA	Biological Databases of South Australia
BoM	Bureau of Meteorology
CP	Conservation Park
CWF	Cleve Wind Farm
DEW	Department for Environment and Water
EAAF	East Asia-Australasian Flyway
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i>
EP	Eyre Peninsula
EPBGW	Eyre Peninsula Blue Gum (<i>Eucalyptus petiolaris</i>) Woodland
GPS	Global Positioning System
IBRA	Interim Biogeographic Regionalisation for Australia
km	Kilometres
LSA Act	<i>Landscape South Australia Act 2019</i>
MNES	Matters of National Environmental Significance
NPW Act	<i>National Parks and Wildlife Act 1972</i>
NV Act	<i>Native Vegetation Act 1991</i>
NVC	Native Vegetation Council
NV Regs	<i>Native Vegetation Regulations 2017</i>
NVIS	Native Vegetation Information System
PDI Act	<i>Planning Development and Infrastructure Act 2016</i>
PMST	Protected Matters Search Tool
Project area	Cleve Wind Farm project boundary
SA	South Australia
Study area	Cleve Wind Farm project boundary plus additional 5km buffer
TEC	Threatened Ecological Community
UBS	Unit Biodiversity Score
WONs	Weed of National Significance
WTG	Wing Turbine Generator

Table of Contents

1	Introduction.....	1
1.1	Objectives.....	1
2	Background.....	5
2.1	Project Extent.....	5
2.2	IBRA	7
2.2.1	Cleve Environmental Association Description	7
2.2.2	Mt. Desperate Environmental Association Description	7
2.3	Historical Land Use	9
2.4	National Vegetation Information System.....	9
2.5	Watercourses	9
2.6	Climate.....	9
3	Legislative Summary	11
4	Methods.....	13
4.1	Database Searches.....	13
4.1.1	Protected Matters Search Tool (PMST) – EPBC Act.....	13
4.1.2	Biological Database of South Australia (BDBSA) – NPW Act.....	13
4.2	Desktop Study Limitations.....	13
4.3	Field Survey.....	13
4.3.1	Vegetation Survey.....	14
4.3.2	Avian Survey.....	15
4.4	Assessment of the Likelihood of Occurrence.....	16
5	Desktop Assessment Outcomes.....	17
5.1	Matters of National Environmental Significance	17
5.1.1	State and Territory Reserves.....	18
5.1.2	National Heritage Places.....	18
5.1.3	Wetlands of National Importance	18
5.2	Threatened Ecological Communities.....	20
5.2.1	Nationally Threatened Ecosystems.....	20
5.2.2	State Provisional List of Threatened Ecosystems	22

5.3	Significant Flora	22
5.3.1	Nationally Threatened Flora	22
5.3.2	State Threatened Flora.....	23
5.4	Significant Fauna	27
5.4.1	Nationally Significant Fauna	27
5.4.2	Migratory Species	28
5.4.3	State Threatened Fauna	28
6	Field Survey Results	34
6.1	General Landscape.....	34
6.2	Baseline Survey.....	34
6.2.1	Vegetation Associations.....	35
6.3	Threatened Ecological Communities.....	44
6.4	Threatened Flora.....	50
6.5	Threatened Fauna	53
6.6	Avian Survey.....	55
6.6.1	Malleefowl.....	55
6.7	Bat Surveys.....	57
6.8	Exotic Species.....	59
6.8.1	Declared Weeds.....	59
6.8.2	Exotic Fauna	60
7	Project Interaction with Ecological Values	61
7.1	Baseline Survey.....	61
7.2	Targeted Survey	61
8	Assessment of Significance	76
8.1	Threatened Ecological Communities.....	76
8.2	Migratory Species	78
8.3	Threatened Species	78
8.3.1	Significant Impact Criteria for Vulnerable Species: Diamond Firetail (<i>Stagonopleura guttata</i>)	79
9	Clearance Summary.....	82
9.1	Cumulative Impact.....	82
9.2	Address the Mitigation Hierarchy.....	82
10	Discussion.....	84

10.1	Direct Impacts.....	84
10.1.1	Vegetation Clearance	84
10.1.2	Fauna Habitat Fragmentation	84
10.1.3	Disturbance, Injury and Mortality to Fauna	84
10.2	Summary.....	84
11	References.....	86
12	Appendices	87

List of Figures

Figure 1.	Location of the CWF on the Eyre Peninsula.....	3
Figure 2.	Location of the CWF north of the Cleve township	4
Figure 3.	Refined layout of CWF Project area including access roads, turbine locations and transmission cable routes.....	6
Figure 4.	IBRA associations relevant to CWF Project.....	8
Figure 5.	Average monthly temperatures and rainfall in Cleve (BOM, 2023)	10
Figure 6.	Protected areas within and external to the CWF Project area.	19
Figure 7.	Potential locations of EPBC listed TEC <i>Eucalyptus petiolaris</i> (Eyre Peninsula Blue-gum) Woodland	21
Figure 8.	Historical BDBSA threatened flora records within CWF Study area (See Figure 9 for flora legend).....	26
Figure 9.	Historical BDBSA threatened flora records within CWF Study area legend.	27
Figure 10.	Historical BDBSA threatened fauna records within CWF Study area.....	33
Figure 11.	Patch 3a Mixed <i>Eucalyptus petiolaris</i> / <i>E. odorata</i> Woodland along watercourse qualifying as the EPBGW TEC.....	45
Figure 12.	TEC locations within the CWF Project area.	46
Figure 13.	Locations of EPBGW TEC patch 1 and 2 interacting with or in close proximity to CWF footprint.....	47
Figure 14.	EPBGW TEC communities patches 3a, 3b, 4 and 5.....	48
Figure 15.	Locations of EPBGW TEC communities patches 5, 6 and 7.	49
Figure 16.	<i>Daviesia pectinata</i> (Zig Zag Bitter pea) present as poor condition individuals within road reserves..	50
Figure 17.	<i>Eucalyptus cretata</i> (Darke Peak Mallee) within Project area.....	51

Figure 18. <i>Sarcozona bicarinata</i> (Ridged Noon flower) in CWF Project area.....	52
Figure 19. Two orchid species recorded during targeted surveys, <i>Caladenia septuosa</i> and <i>Thelymitra megalyptra</i>	52
Figure 20. Diamond Firetail (<i>Stagonopleura guttata</i>) within CWF Project area.....	53
Figure 21. Locations of threatened flora and fauna species observed within the CWF Project area.	54
Figure 22. Locations of Avian survey sites	58
Figure 23. Map 1 of 14.....	62
Figure 24. Map 2 of 14.....	63
Figure 25. Map 3 of 14.....	64
Figure 26. Map 4 of 14.....	65
Figure 27. Map 5 of 14.....	66
Figure 28. Map 6 of 14.....	67
Figure 29. Map 7 of 14.....	68
Figure 30. Map 8 of 14.....	69
Figure 31. Map 9 of 14.....	70
Figure 32. Map 10 of 14.....	71
Figure 33. Map 11 of 14.....	72
Figure 34. Map 12 of 14.....	73
Figure 35. Map 13 of 14.....	74
Figure 36. Map 14 of 14.....	75

List of Tables

Table 1. Summary of Relevant Commonwealth and State Legislation.....	11
Table 2. Criteria for the likelihood of occurrence of conservation significant flora and fauna within the Project area based on BDBSA records and the field survey(s) ¹	16
Table 3. EPBC Act PMST report results summary.....	17



Table 4. Threatened flora species listed under the EPBC Act and NPW Act identified in the PMST (Source 1), BDBSA (Source 2) database searches or observed during the field surveys (Source3). Likelihood of occurrence refers to occurrence within the Project area.....	24
Table 5. Threatened fauna and migratory species listed under the EPBC Act and NPW Act identified in the PMST (Source 1) and BDBSA (Source 2) database searches or observed during the field survey (Source 3). Likelihood of habitat use refers to habitat use within the Project area.	30
Table 6. Vegetation Association Descriptions	35
Table 7. <i>Eucalyptus petiolaris</i> Key diagnostic characteristics.....	44
Table 8. EPBGW patches within the CWF Project area.....	45
Table 9. Avian species recorded within the CWF Project area and likelihood to utilise rotor sweep heights.....	55
Table 10. BDBSA records for bat species within 50km of the Project area.....	57

1 Introduction


Owned and operated by Vestas, the proposed Cleve Wind Farm project (CWF) will consist of up to 70 turbines, providing a potential 500mW of energy. If the CWF is approved, the project will deliver renewable, low-cost energy to the national grid and contribute to the SA Government's net-zero emission target by 2027 (Vestas 2024). The project will result in 350 jobs during the construction phase with 12 people in full time employment in an ongoing capacity.

The proposed CWF is located on the eastern Eyre Peninsula (EP) (Figure 1), approximately 6 kilometres (km) north of the regional town of Cleve (Figure 2). The overall project encompass a total area of approximately 23,840 hectares (ha). The CWF site and Cleve district is rich in agricultural resources with a rainfall above that of the surrounding districts due to an elevated topography with an average annual rainfall around 400mm. Land use is dominated by cropping and secondarily grazing.

1.1 Objectives

Ecosphere were engaged by AECOM on behalf of Vestas to undertake an ecological assessment within the CWF boundary (the Project area). This has been conducted over two surveys, initially as a baseline assessment with which to refine a provisional layout and then as a follow up targeted assessment during spring to determine the presence of threatened species or issues associated with flora and fauna values present within the CWF Project area. Specifically, the objectives of the ecological baseline and targeted assessment were to:

- Conduct database searches to identify matters of Commonwealth and State environmental significance within the Project area plus a 5 km buffer around the Project area (Study area).
- Review any existing mapping data (e.g., vegetation communities, vegetation condition and aerial photographs) relevant to the Study area.
- Document the results of the database searches, including the environmental setting, vegetation covered under the *Native Vegetation Act 1991*, Matters of National Environmental Significance (MNES), Nationally Threatened Ecological Communities (TEC's), threatened flora and fauna, migratory fauna and state threatened flora, fauna and ecological communities.
- Discuss the potential impacts of the project to species with conservation listings under the *Native Vegetation Act 1991* (NV Act), *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) MNES and *National Parks and Wildlife Act 1972* (NPW Act) threatened species.
- Identify any specific habitats within the area that have potential ecologically significant value.

- 
- Describe the existing ecological setting based on the available information and identify data gaps that can addressed as part of field survey work.

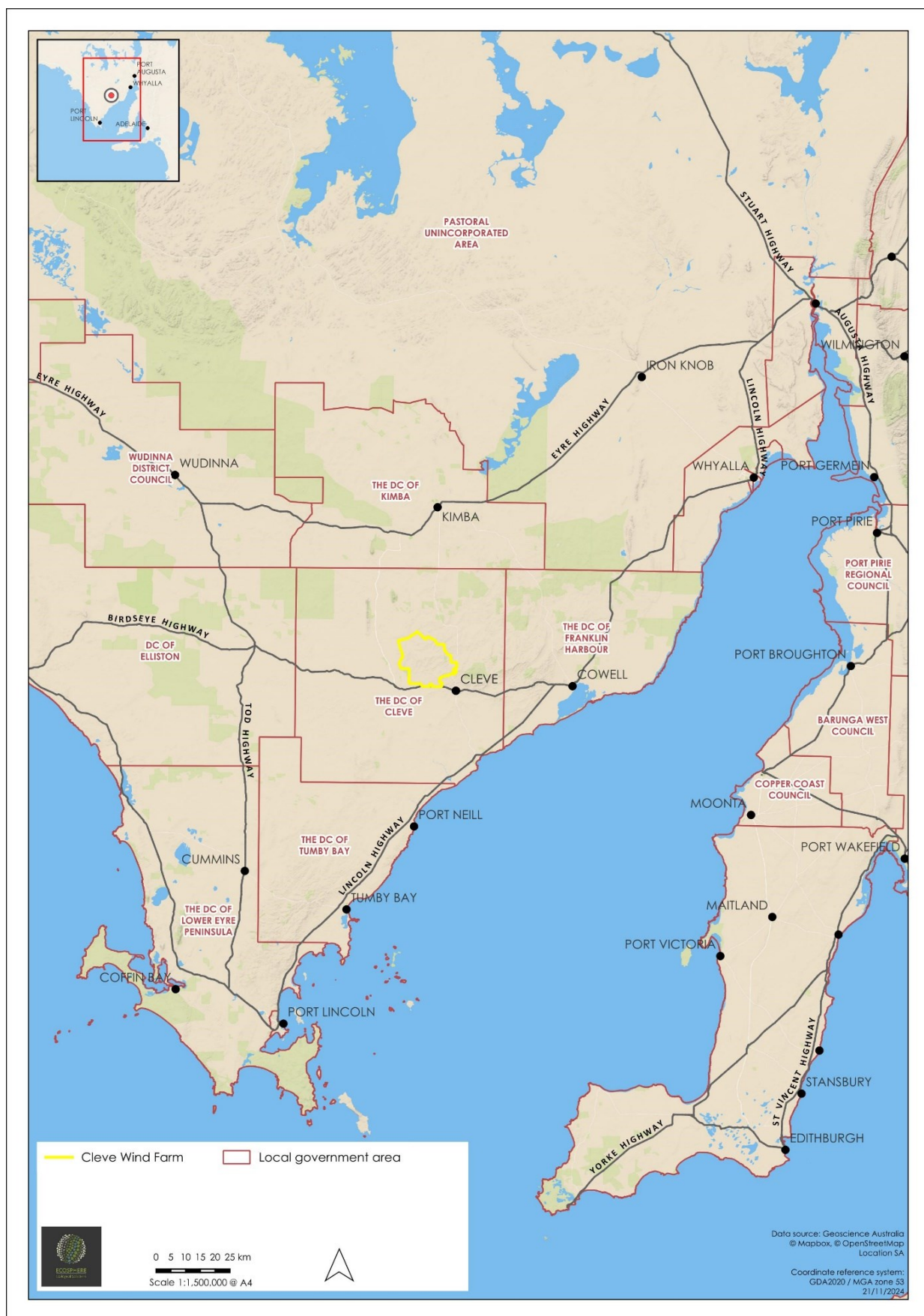


Figure 1. Location of the CWF on the Eyre Peninsula.

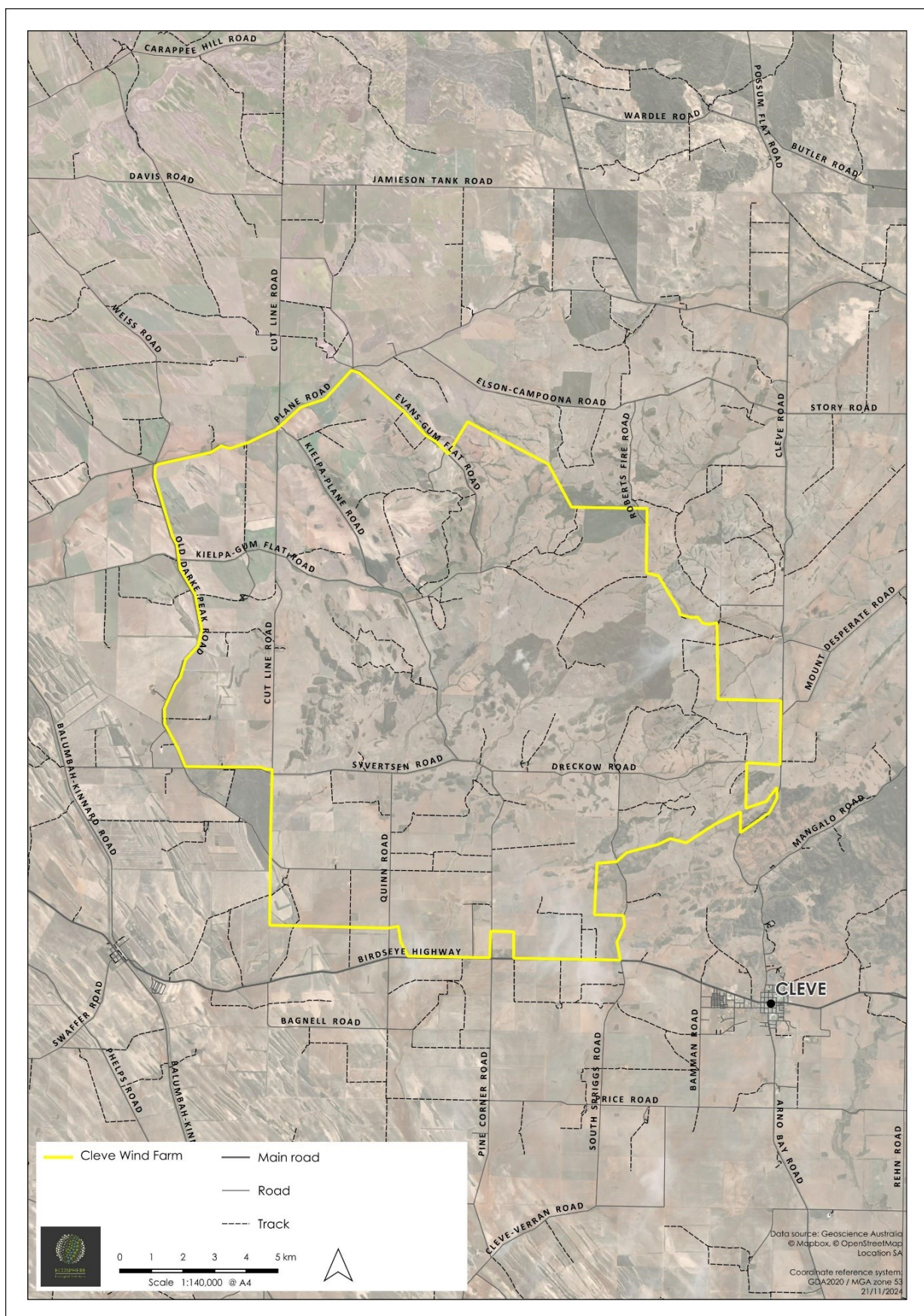


Figure 2. Location of the CWF north of the Cleve township

2 Background

2.1 Project Extent

The Project area is located within the Cleve Hills district and has a topography defined by low hills and valleys. Bounded to the south by the Birdseye highway, the Project area covers an area around 20 x 20 km in geographical extent. The upper elevations of the Project area stand at approximately 395 m Australian Height Datum (AHD) with the lower areas lying 130m AHD and the average elevation at 283m AHD.

The CWF project is a large-scale renewable energy generation and storage project comprising the following infrastructure (Figure 3):

- Wind farm up to 500MW, consisting of approximately 70 turbines. The turbines are proposed to be the Vestas V172-7.2 MW model and comprise the following dimensions:
 - Blade length – 84m
 - Hub Height – 150m
 - Overall Height – 250m
- 240MW battery storage facility (final site to be determined)
- Substation (final site to be determined)
- Associated onsite facilities and infrastructure, including:
 - Turbine pads
 - Crane hard stands pads (for construction)
 - Internal road network upgrades and new roads to accommodate turbine transport and maintenance.
 - Underground transmission cables
 - Construction compound
 - Concrete Batch Plant
 - O&M building
- Transmission connections to the Yadnarie Substation (final location to be determined)

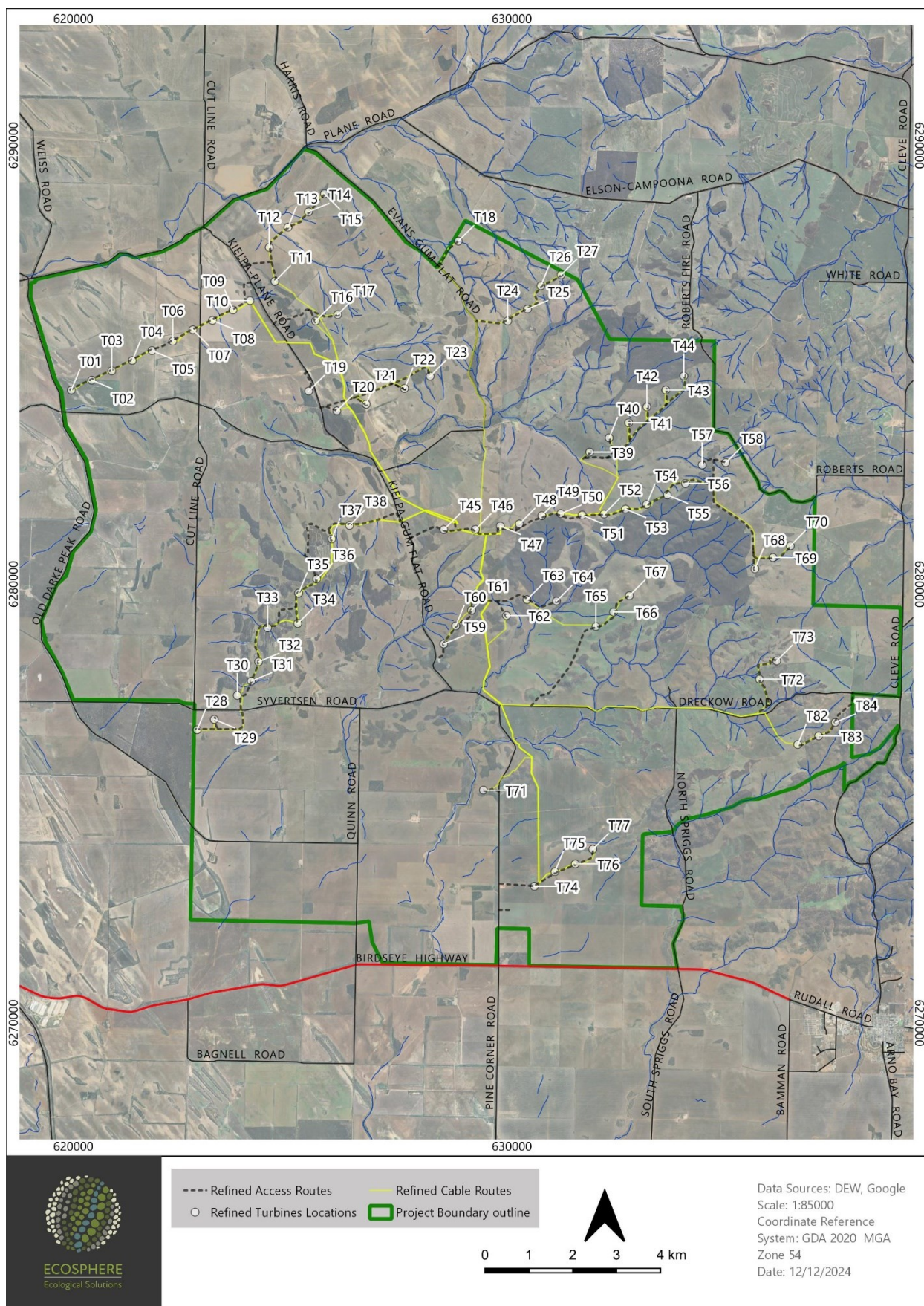


Figure 3. Refined layout of CWF Project area including access roads, turbine locations and transmission cable routes.

2.2 IBRA

The Interim Biogeographical Regionalisation of Australia (IBRA) identifies geographically distinct bioregions based on common climate, geology, landform, native vegetation and species information. The bioregions are further refined into subregions and environmental associations (DoEE 2012). The CWF Project area is located within the Eyre York Block Bioregion and the Eyre Hills Subregion and extends across two Environmental Associations, the Cleve Environmental Association and the Mount Desperate Environmental Association (Figure 4). Native vegetation remnancy figures for IBRA subregions and associations are useful for setting regional landscape targets and therefore relevant to the project with respect to available vegetation and habitat extent.

2.2.1 Cleve Environmental Association Description

The Cleve Environmental Association is characterised by gently sloping sandy plains and foot slopes with some dunes and low cliffs along the coastline. Soils are typically red calcareous earths, hard pedal red duplex soils, brownish sands and whitish calcareous sands. The association has 17% native vegetation cover, of which 17% is formally protected in reserves and heritage agreements (DoEE 2012). Vegetation consists of open scrub of *Eucalyptus socialis* (Beaked Red Mallee) and *Eucalyptus gracilis* (Yorrell), sometimes with *Eucalyptus incrassata* (Ridge-fruited Mallee) and *Melaleuca uncinata* (Broombush), open heath of *Olearia axillaris* (Coast Daisy-bush), *Leucopogon parviflorus* (Coast Beard-heath) and *Acacia longifolia* (Coastal Wattle).

2.2.2 Mt. Desperate Environmental Association Description

The Mt Desperate Environmental Association is characterised by hills on metasediments with short foot slopes and fans. Soils are typically dense brown loams, hard pedal red duplex soils and hard pedal mottled-yellow duplex soils. The association has 38% native vegetation cover of which 16% is formally protected in reserves and heritage agreements. The vegetation consists of open scrub of *Eucalyptus socialis* (Beaked Red Mallee), *Eucalyptus gracilis* (Yorrell), *Eucalyptus incrassata* (Ridge-fruited Mallee) and *Melaleuca uncinata* (Broombush) and low woodland of *Allocasuarina verticillata* (Drooping Sheoak).

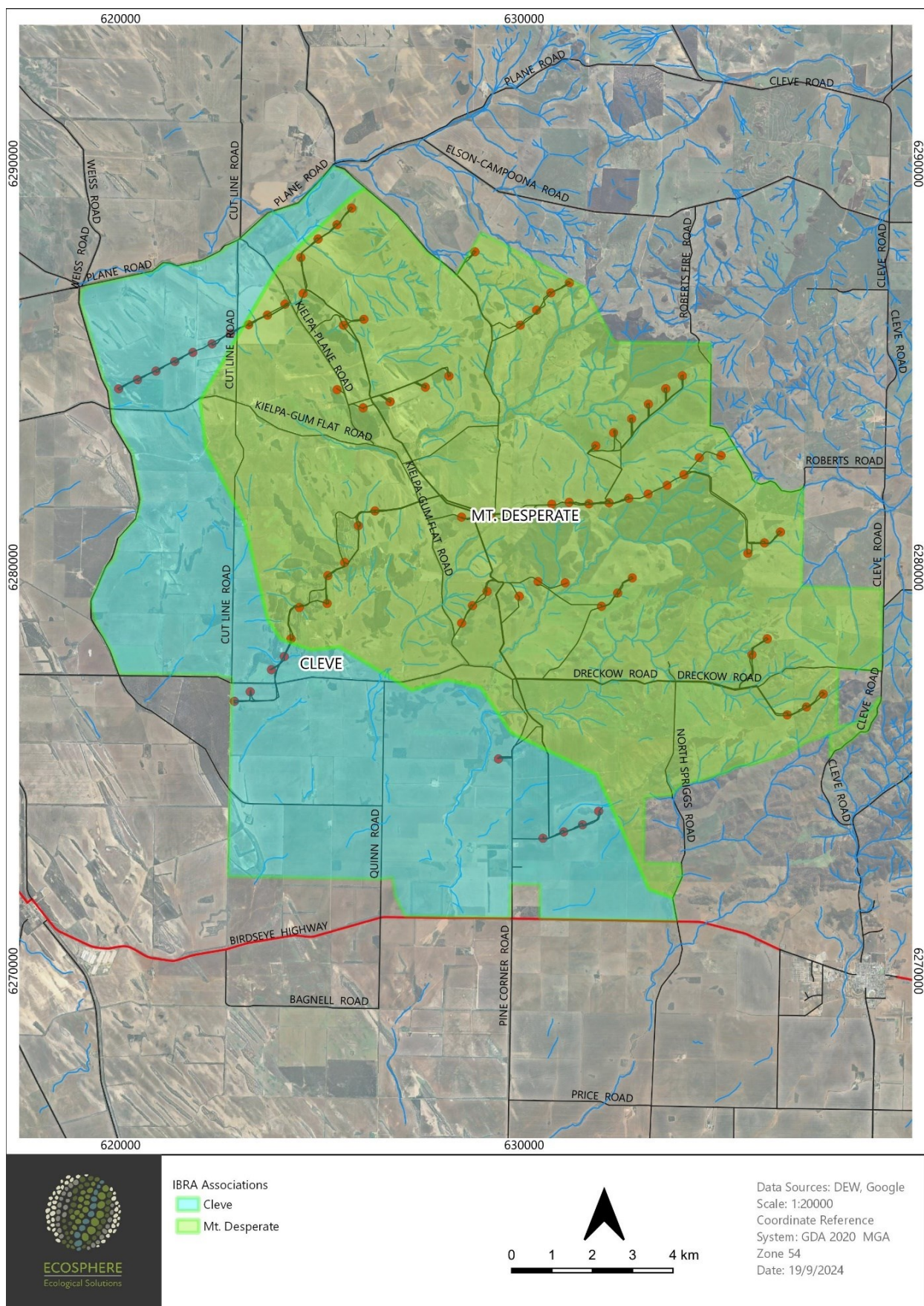


Figure 4. IBRA associations relevant to CWF Project.

2.3 Historical Land Use

The primary land uses in the Eyre York Block bioregion are pastoral activities and cereal crop production, with some areas of parks or reserves. Characterised by low open mallee woodlands, shrublands and heaths, the majority of which has been cleared for agriculture purposes.

The environment of the region has been heavily influenced by sheep grazing and cereal crop production since the 1900's. Grazing by domestic livestock and the invasive rabbit since European settlement have led to significant habitat modification of vegetation communities within the region, posing a major threat to indigenous flora and fauna. Key threats recognised for indigenous fauna species in the region include the presence of invasive predators (primarily cats and foxes) and exotic weed invasion of remnant vegetation (particularly in highly fragmented and disturbed areas such as roadsides).

2.4 National Vegetation Information System

The National Vegetation Information System (NVIS) is a comprehensive data system that provides information on the extent and distribution of vegetation types in Australian landscapes. The NVIS broadly maps the CWF Project area as primarily *Eucalyptus* Mallee Forest and Mallee Woodland. More specifically, remnant vegetation within the Project area is mapped as *Eucalyptus incrassata* (Ridge Fruited Mallee), *Eucalyptus leptophylla* (Narrow-leaved Mallee) mid mallee woodland over *Leptospermum coriaceum* (Dune Tea-tree), *Melaleuca uncinata* (Broombush), *Callitris verrucosa* (Scrubby Cypress Pine), *Babingtonia behrii* (Silver Broombush) shrubs over *Hibbertia australis* (Guinea Flower), *Glischrocaryon behrii* (Golden Pennants) shrubs with low limestone dune ridges and sandy soils.

2.5 Watercourses

There were no major watercourses recorded within the CWF Project area. Seasonal ephemeral creeks are known throughout the Project area including Gum Creek, She-oak Creek, Poolalalie Creek and Yadnarie Creek with these forming part of the Driver River Catchment. These creek lines experience seasonal flows after periods of heavy rainfall only and recede into dry channels for most of the year.

2.6 Climate

The Cleve weather station (Station Number: 018014) is located approximately 4 km south of the Study area and has records for rainfall and temperature available for the previous 80 years. Cleve shows an annual mean rainfall of 401.3 mm (BoM, 2023) and experiences a mean maximum temperature of 28.3°C in January, with overnight mean minimum temperatures of 15.8°C (Figure 5). The winter months have the coolest mean maximum and

minimum temperatures coupled with the higher rainfall periods. The climate is therefore Mediterranean but with drier cooler winters and relatively low annual rainfall (370-423 mm, NatureMaps, 2023).

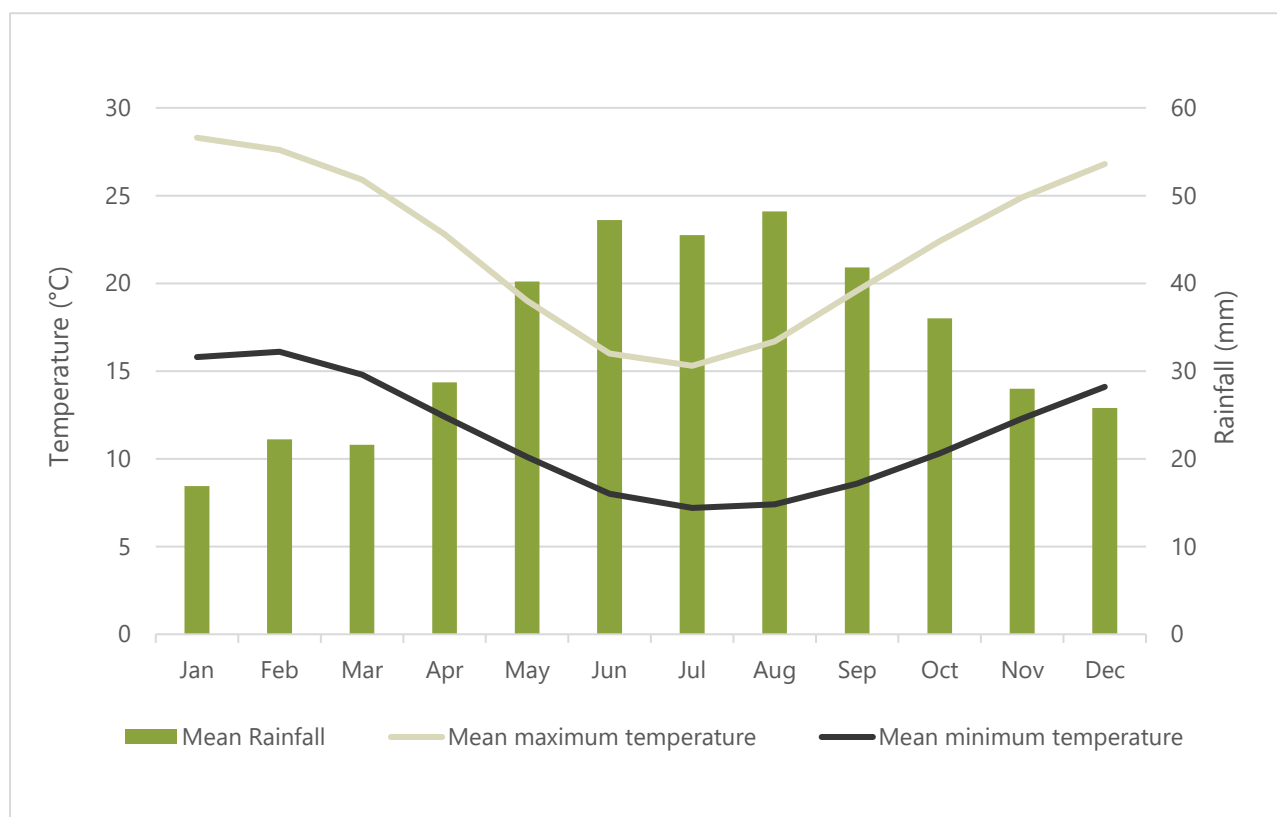


Figure 5. Average monthly temperatures and rainfall in Cleve (BOM, 2023)

3 Legislative Summary

A summary of key legislation relating to flora, fauna and ecological values and their relevance to the CWF Project area is provided in Table 1 below.

Table 1. Summary of Relevant Commonwealth and State Legislation.

Legislation	Summary	Relevance
Commonwealth		
<i>Environment Protection and Biodiversity Conservation Act 1999</i>	<p>To protect 'matters of national environmental significance' (MNES):</p> <ul style="list-style-type: none"> World Heritage properties National Heritage properties wetlands of international importance (Ramsar wetlands) listed threatened species and ecological communities. migratory species Commonwealth marine areas the Great Barrier Reef Marine Park nuclear actions (including uranium mining). a water resource, in relation to coal seam gas development and large coal mining development 	<p>Where an activity may trigger requirements of the EPBC Act, this legislation must be considered.</p> <p>Any action that has, will have, or is likely to have, a significant impact on a matter of national environmental significance requires referral and approval. Significant penalties apply.</p> <p>To determine whether an action is likely to have a significant impact on a matter of national environmental significance, refer to the Significant Impact Guidelines (Commonwealth of Australia 2009) at: http://www.environment.gov.au/epbc/publications/pubs/nes-guidelines.pdf.</p>
South Australia		
<i>National Parks and Wildlife Act 1972</i>	<p>Allows for the protection of habitat and wildlife through the establishment of parks and reserves (both on land and in State waters); provides for the protection of native flora and fauna; identifies flora and fauna species considered to be of conservation significance (under Schedules 7, 8, and 9 of the Act); and provides for the use of approved wildlife through a system of permits allowing certain actions, i.e. keeping and selling (s.58), harvesting (s.60G), farming (s.60C), hunting (s.68A), releasing (s.55) and undertaking scientific research (s.53) on/of native fauna species, and for the taking of plants (s.49).</p>	<p>Legislated for the conservation of animals, plants and ecosystems.</p> <p>Protected animals and plants are listed within the Act, giving effect to the international system of IUCN Red List of threatened species.</p>

Legislation	Summary	Relevance
<i>Native Vegetation Act 1991</i>	<p>To preserve, enhance and manage the State's native vegetation; provide a regulatory framework to control clearance of vegetation; and provide incentives and assistance to landowners to encourage them to preserve and enhance native vegetation.</p> <p>The Act protects all native vegetation that naturally occurs, i.e., vegetation which has not been planted. This includes all naturally occurring local native plants, from small ground covers and native grasses to mallee scrub and tall trees. It does not cover planted trees.</p>	<p>Significant penalties apply if a person clears native vegetation without the permission of the NVC.</p> <p>Approval is required for the clearance of native vegetation. Clearance is defined as:</p> <ul style="list-style-type: none"> the killing or destruction of native vegetation the removal of native vegetation the severing of branches, limbs, stems or trunks of native vegetation. the burning, poisoning and slashing of native vegetation. <p>any other substantial damage to native vegetation including activities such as the draining for the reclamation of wetlands or flooding of land, grazing land where stock have been excluded for more than ten years.</p> <p>The Act also provides the opportunity for landholders to enter into voluntary "Heritage Agreement(s)" to ensure vegetation on private land is protected for perpetuity (s.23).</p>
<i>Landscape South Australia Act 2019</i>	<p>From July 1, 2020, the <i>Landscape South Australia Act 2019</i> (LSA Act) replaced the <i>Natural Resources Management Act 2004</i>, as the key framework for managing the state's land, water, pest plants and animals, and biodiversity across the state.</p>	<p>Under the South Australian LSA Act, landholders have a legal responsibility to manage declared pest plants and animals and prevent land and water degradation. A key priority of landscape boards is to support local communities and landowners to be solely responsible for sustainably managing their region's landscapes with an emphasis on land and water management, pest animal and plant control, and biodiversity. This includes providing greater funding and partnership opportunities with local community organisations to deliver on ground works and projects.</p>

4 Methods

4.1 Database Searches

4.1.1 Protected Matters Search Tool (PMST) – EPBC Act

A PMST report was generated on 5th April 2024 to identify MNES under the EPBC Act, relevant to the Project area (DCCEEW, 2024). The PMST is maintained by the Department of Climate Change Energy, the Environment and Water (DCCEEW) and was used to identify flora and fauna species or ecological communities of national environmental significance that may occur or likely to have suitable habitat within the CWF Study area.

4.1.2 Biological Database of South Australia (BDBSA) – NPW Act

A Biological Database of South Australian (BDBSA) search was obtained from the South Australian Department for Environment and Water (DEW) on 5th April 2024 to identify flora and fauna species previously recorded within the CWF Study area (record number: DEWNRBDBSA240112-1, DEW 2024). The BDBSA is comprised of an integrated collection of corporate databases which meet DEW standards for data quality, integrity and maintenance. In addition to DEW biological data, the BDBSA also includes data from partner organisations (Birds Australia, Birds SA, Australasian Wader Study Group, SA Museum, and other State Government Agencies). This data is included under agreement with the partner organisation for ease of distribution, but they remain owners of the data and should be contacted directly for further information.

4.2 Desktop Study Limitations

The content of the desktop study was derived from existing datasets and references from a range of sources. Flora and fauna records were sourced from the Protected Matters Database via the PMST. The BDBSA only includes verified flora and fauna records submitted to DEW or partner organisations. It is recognised that drawing conclusions can be unreliable within areas that have been underrepresented in terms of biological studies. It is possible, therefore, that significant species occur within the CWF Study area that were not reflected by database records or that records prior to the advent of GPS within the Project area have limitations regarding location accuracy.

4.3 Field Survey

Ecosphere Ecological Solutions conducted field surveys for the CWF in March and October of 2024 as autumn and spring surveys in which to record a cross section of ecological assets available. The autumn survey was conducted from the 18th of March to the 22nd of March with three ecologists which primarily focused on the

Project area as a whole with some bias toward provisional turbine locations, cable and access routes. Two ecologists undertook broad vegetation assessments covering the extent of the Project area generally with the remaining field ecologist targeting individual avian species and habitat assessment.

The spring survey was conducted from the 1st to the 3rd of October 2024 with two field ecologists and focused on the provisional refined layout for threatened flora with a focus on identifying species only present seasonally such as orchids or other spring flowering species, and vegetation interacting with refined turbine and cable route locations. Any other opportunistic fauna observations were also recorded during this survey with a focus on threatened species considered likely to occur such as Diamond Firetail. This approach enabled observation of seasonal variations in plant presence and visibility, increasing the likelihood of achieving a more comprehensive species assessment.

See Section 4.3.1 for more information on vegetation survey methodology, and Section 4.3.2 for more information on fauna survey methodology.

4.3.1 Vegetation Survey

Vegetation surveys were performed in accordance with the Bushland Assessment Methodology (BAM) (NVC 2020). The BAM was designed for assessing vegetation that is located within the agricultural region of South Australia.

The BAM uses biodiversity 'surrogates' or 'indicators' to measure biodiversity value against benchmark communities. Each area to be assessed is termed an application area ('Block'), within which different vegetation associations ('Sites') are identified. For the BAM, three components of the biodiversity value of the Site are measured and scored (Vegetation Condition, Landscape Context, and Conservation Significance). These three component scores are combined to provide a 'Unit Biodiversity Score' (UBS) for a hectare and then multiplied by the size (hectares) of the Site to provide a 'Total Biodiversity Score' for the Site. Multiple Sites within a Block are totalled to reach the final overall score.

During the March survey, using the above methodology, each turbine site and cable route was assessed where native vegetation was present and could potentially be impacted by the construction and/or presence of the infrastructure. Access tracks through private property were assessed, including narrow tracks that would need to be widened to allow vehicles and larger machinery access during the construction of the CWF.

Roadside vegetation on the public roads along defined access routes throughout the Project area were assessed where road width was less than 8 metres, and in future would need to be widened to allow for vehicles and machinery during construction. See Section 6.2 for results of the March survey.

The October survey focused on areas of higher value vegetation as previously identified in the March survey for threatened species that may not have been visible during the previous survey. Targeted surveys focusing on larger, more intact areas of woodland for species such as orchids were conducted, as well as surveys of vegetation that may be impacted due to revised cable routes, not assessed in the previous survey. See Section **Error! Reference source not found.** for results of the October survey.

4.3.2 Avian Survey

Avian surveys were conducted during the March survey to establish a baseline of species richness within the Project area with targeted efforts on threatened species. The desktop assessment was used to identify any threatened species likely to utilise habitat within the Project area and thereby require targeted survey efforts.

Historical records from the BDBSA database search were ground-truthed for species such as Malleefowl (*Leipoa ocellata*) and their nesting mounds by walking a grid around the previous record for a nest mound, and a ramble walk in the general area to compensate for potentially inaccurate historical GPS coordinates.

Key areas such as water sources were specifically targeted for species known to frequent them for example Diamond Firetails (*Stagonopleura guttata*) and large trees possibly suitable for Wedge-tailed Eagle (*Aquila audax*) nest sites were examined throughout the entire Project area. Though not threatened this species was specifically targeted due to the heightened strike risk associated with large birds of prey in wind farm environments.

Bird point counts across a variety of habitats within the Project area were conducted for 20 minutes per site. Sites were chosen by using a combination of factors; how intact or undisturbed the native vegetation was, the size of the vegetation patch, the likelihood of providing habitat for threatened species, proximity to proposed turbine locations and historical records.

Upon arrival at a site, the observer would remain in the vehicle with the engine off for 10 minutes to allow any disturbance from arrival to subside. The sites were then traversed by foot for 20 minutes using a ramble method (observers chose a random route through the site) and where possible covering an area of one hectare per site. Bird species were identified by calls or a direct sighting.

Opportunistic sightings within roadside vegetation were also recorded while traveling between sites.

During the October survey opportunistic avian sightings were recorded while traveling between sites and during vegetation surveys. See Section 6.3 for results of the Avian Survey.

4.4 Assessment of the Likelihood of Occurrence

The likelihood of each threatened flora and fauna species occurring within the CWF Study area was assessed. A likelihood of occurrence rating (Highly Likely / Known, Likely, Possible and Unlikely) was assigned to each threatened species identified in the desktop PMST and BDBSA search. Field survey observations were used to inform on the presence of species or suitable habitat for species within the Project area and these observations were used to update desktop results post-survey (Table 2).

Table 2. Criteria for the likelihood of occurrence of conservation significant flora and fauna within the Project area based on BDBSA records and the field survey(s)¹.

Likelihood	Criteria
Highly Likely/Known	Recorded in the Study area within the previous 10 years. The species does not have highly specific niche requirements. The habitat within the Project area is largely intact and falls within the known species distribution or the species was recorded as part of field surveys.
Likely	Recorded in the Study area within the previous 20 years. The area falls within the known distribution of the species and the Project area provides species habitat which is largely intact.
Possible	Recorded in the Study area within the previous 20 years. The Project area falls inside the known distribution of the species, but the Project area does not provide species habitat which is largely intact. Recorded in the Study area within 20-40 years. Survey effort is considered adequate. Habitat within the Project area is present and intact, and species of similar habitat needs have been recorded in the Project area.
Unlikely	Recorded in the Study area within 20-40 years. However, suitable habitat does not occur, and species of similar habitat requirements have not been recorded in the Project area. No records within the Study area within the previous 40 years despite suitable habitat being known to occur in the Project area. No records despite adequate survey effort.

¹The final likelihood of the occurrence of conservation significant flora and fauna within the Project area was modified based on local knowledge and information obtained during the field survey(s).

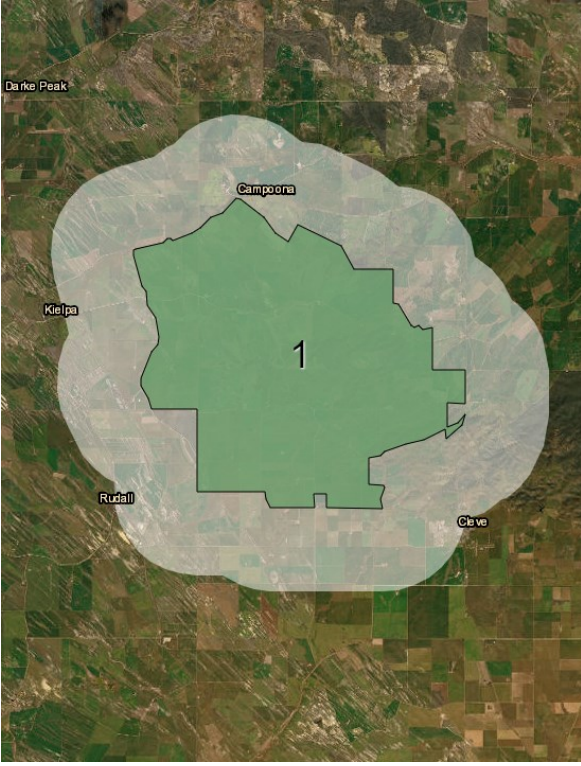
5 Desktop Assessment Outcomes

Results of the PMST and BDBSA databases searches as well as field survey ground truthing outcomes for matters of State and National conservation significance highlighted by the database searches are detailed below.

5.1 Matters of National Environmental Significance

The EPBC Act PMST report summary (Table 3) (DCCEEW 2024) highlights MNES potentially occurring or having suitable habitat potentially occurring within the CWF Study area. Marine only species were not assessed as part of this desktop assessment due to a lack of connectivity to marine environments within the scope of the CWF Project area. Individual matters relevant to the site are detailed below.

Table 3. EPBC Act PMST report results summary.

Study area	Matters of National Environmental Significance	Identified in Study area
	World Heritage Properties	0
	National Heritage Places	0
	Wetlands of International Importance (RAMSAR)	0
	Great Barrier Reef Marine Park	0
	Commonwealth Marine Area	0
	Listed Threatened Ecological Communities	1
	Listed Threatened Species	26
	Listed Migratory Species	11
	Other Matters Protected by the EPBC	
	Commonwealth Lands	0
	Commonwealth Heritage Places	0
	Listed Marine Species	18
	Whales and Other Cetaceans	0
	Critical Habitats	0
	Commonwealth Reserves Terrestrial	0
	Australian Marine Parks	0
	Habitat Critical to the Survival of Marine Turtles	0
	Extra Information	
	State and Territory Reserves	6
	Regional Forest Agreements	0
	Nationally Important Wetlands	0
	EPBC Act Referrals	6
	Key Ecological Features	0
	Biologically Important Areas	0
	Bioregional Assessments	0
	Geological and Bioregional Assessments	0

5.1.1 State and Territory Reserves

Six State and Territory reserves were highlighted by the PMST report. None of the reserves were located within the Project area. The Rudall Conservation Park (CP) covers approximately 360 ha and occurs just outside the southwestern boundary of the CWF Project area. One Heritage Agreement is located within the project footprint (HA1152) and a further two are located within the wider Study area. See Figure 6 below for locations of reserves within and surrounding the CWF Study area.

5.1.2 National Heritage Places

No National Heritage Places were identified within the Study area by the PMST.

5.1.3 Wetlands of National Importance

No wetlands of national importance were identified by the PMST as being within the Study area.

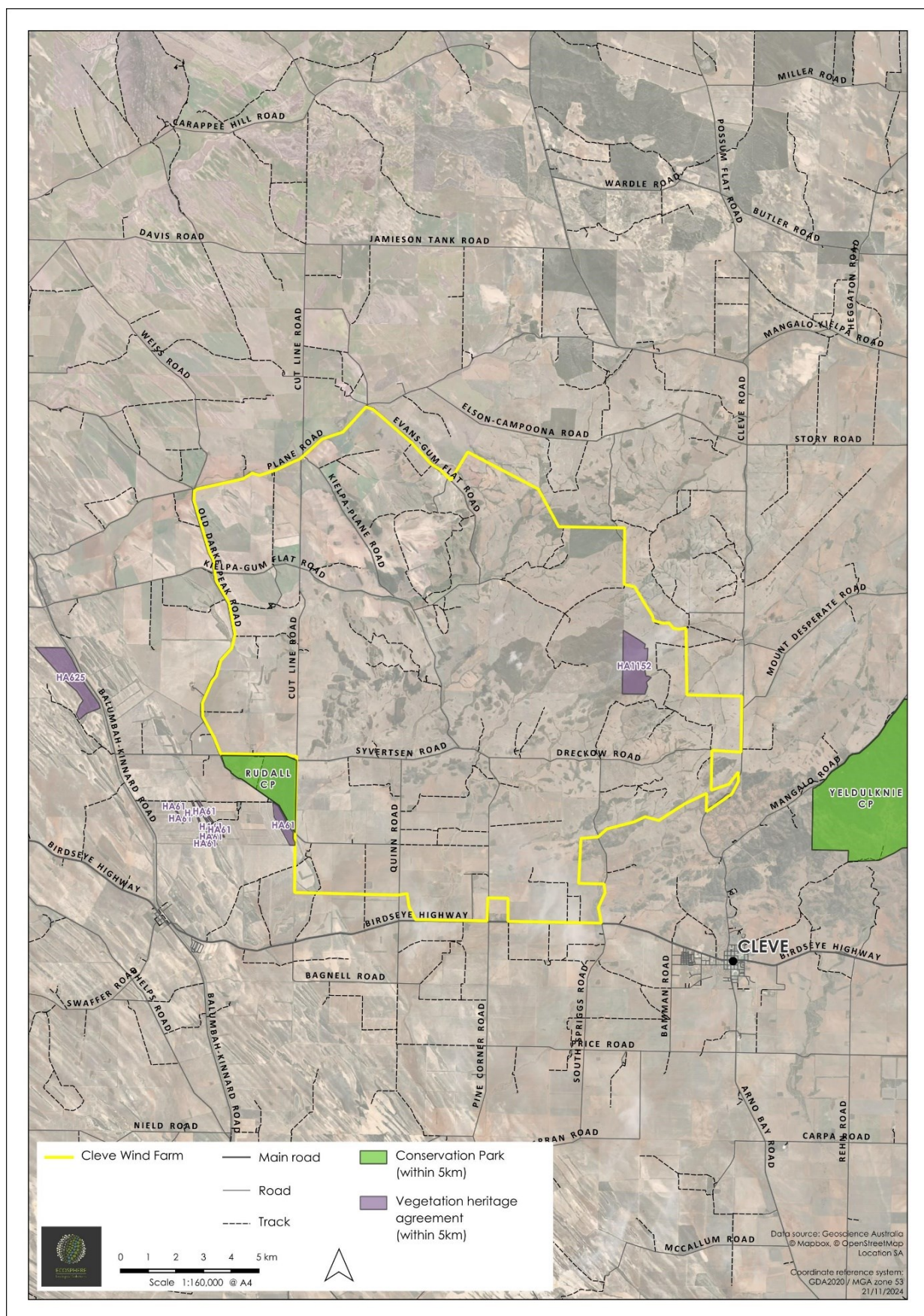


Figure 6. Protected areas within and external to the CWF Project area.

5.2 Threatened Ecological Communities

5.2.1 Nationally Threatened Ecosystems

One TEC was identified by the PMST as likely to occur within the CWF Project area. Eyre Peninsula Blue Gum (*Eucalyptus petiolaris*) Woodland Ecological communities are listed as Endangered under the EPBC Act.

The Eyre Peninsula Blue Gum Woodland (EPBGW) occurs south of the Gawler Ranges mainly in the Koppio Hills, Cleve Hills and west of the Marble Range where the mean rainfall is above 370 mm annually (Figure 7). The ecological community is predominantly restricted to well-drained, moderate to high fertility soils associated with sheltered valleys, lower hill slopes and watercourses (Bonifacio et al., 2012 in DOE 2024)

The typical structure of the ecological community is a woodland but may form open forest. The mid and ground layer can show considerable variation in floristic composition and structure, being greatly influenced by the history of disturbance and management of remnant patches.

National listing focuses legal protection on remaining patches of the ecological community that are most functional, relatively natural (as described by the 'Description') and in relatively good condition. Patches that do not meet the minimum condition thresholds are excluded from full national protection. Although very degraded/modified patches are not protected as the ecological community listed under the EPBC Act, it is recognised that patches that do not meet the condition thresholds may still retain important natural values and may be critical to protecting those patches that meet minimum thresholds.

The season in which surveys are undertaken is important as the ecological community can be variable in its appearance throughout the year and between years depending on hydrological inputs. Assessment should occur during spring and early summer when the greatest number of species are likely to be evident.

Therefore, the field survey aimed to identify potential areas of EPBGW within the project footprint that were likely to meet the criteria specified in the TEC listing advice. If any intact patches of potential EPBGW were found to interact with the project footprint, further investigations to determine whether the community meets the listing criteria would be required. This would include assessing the condition category of the TEC and the significance of any impacts to the TEC.

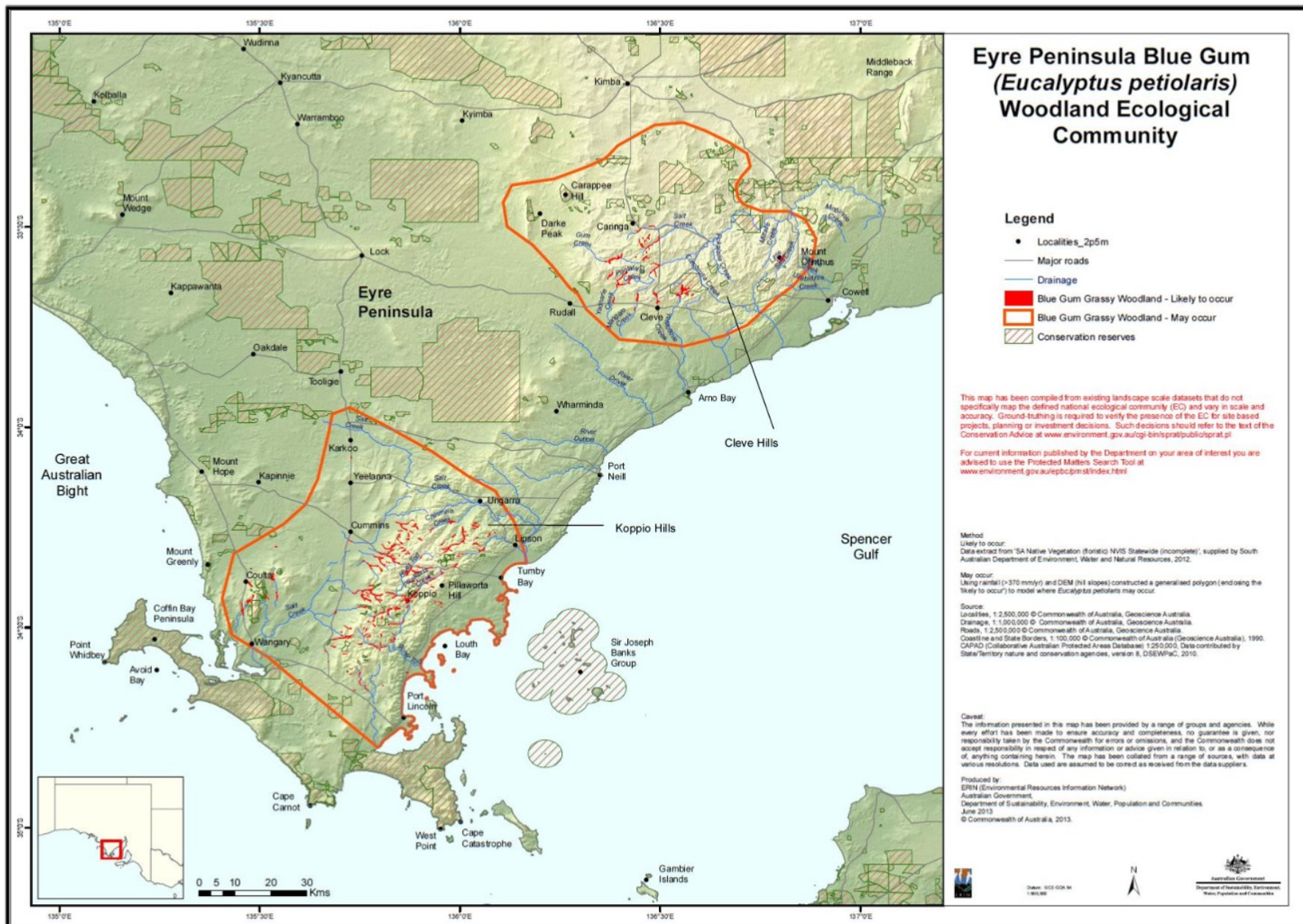


Figure 7. Potential locations of EPBC listed TEC *Eucalyptus petiolaris* (Eyre Peninsula Blue-gum) Woodland

5.2.2 State Provisional List of Threatened Ecosystems

The state provisional list of threatened ecosystems (DEH in progress), lists two communities which are both loosely associated with the TEC. These were:

E. peninsularis, *E. dumosa* complex Mallee on loams or clay-loams on flats. Very limited range with only small areas remaining in reserves. Reduced in extent and modified by clearance and grazing. IBRA Regions: EYB, Trend: declining

Eucalyptus petiolaris Grassy Woodland on heavy, fertile soils on plains. Few examples and highly modified by clearance, grazing, salinisation and degradation by weed invasion. Trend: declining.

Given the TEC was observed in agricultural zones in vastly degraded states the state provisional listings provide additional conservation targets to be broader and focused on avoidance and protection of these fringe or transitional communities. Any EPBGW communities not reaching condition criteria fulfilling the EPBC listing should be considered conservation significant under the state listing as this has no minimum criteria.

5.3 Significant Flora

5.3.1 Nationally Threatened Flora

Eleven flora species listed as threatened under the EPBC Act were identified in the PMST report as potentially occurring or having suitable habitat within the Study area (DCCEEW 2024). Of these, one had historical records within the Study area (See Table 4 & Figure 8):

***Acacia praemorsa* (Senna Wattle) EPBC: VU, SA: E**

This species was considered unlikely to occur outside of intact vegetation strata which will be avoided as part of the overall project. Senna Wattle was not recorded within flora surveys targeted for the presence of threatened species within or surrounding the CWF footprint. Senna Wattle is found on the lower slopes of small gullies in low, rocky ranges (Lang et al., 1990 and reference herewith in DWEHA 2009), on north-facing slopes in thick, low scrub (State Herbarium of South Australia, 2005) and in shady, sheltered sites in open mallee woodlands at the base of steep gullies (Lang et al., 1990). Senna Wattle was not recorded in areas associated with the footprint during targeted surveys and is considered sufficiently conspicuous to be readily identified if present.

5.3.2 State Threatened Flora

Twenty flora species of state conservation significance had historical records within the Study area from the BDBSA (Table 4 & Figure 8). Of these, seven were recorded within the Project area. Four species were likely or known to occur within the Project area, These were:

***Daviesia pectinata* (Zig-zag Bitter-pea) NPW: R**

Usually associated with Mallee habitats and most commonly with areas of *Eucalyptus odorata* (Peppermint Box) on Eyre Peninsula which were present within the Project area. Peppermint Box communities in the Project area were often fragmented and intergrades in poor condition within road reserves and not consistent with the typical habitat for *Daviesia pectinata*. Despite this some poor condition individuals were recorded within the project area during the targeted survey but not interacting with the footprint. See section 6.4 for further detail and locations.

***Eucalyptus cretata* (Darke Peak Mallee) NPW: R**

Eucalyptus cretata has a scattered distribution on the central Eyre Peninsula and is particularly common in the Darke Peake and Carapsee Hill areas. A spreading mallee or rarely a small tree which grows on plains in calcareous loams or clays, or on the sides of granite hills. This species is widespread within the Project area and is too commonly occurring to map due to extent and numbers of individuals. Considered conservation significant due to lack of extent and endemism in response to level of clearance in area. See 6.4 for further detail.

***Philotheca angustifolia* ssp. *angustifolia* (Narrow-leaf Wax-flower) NPW: R**

Philotheca angustifolia ssp. *angustifolia* has two records from a heritage agreement area within the Project area (Figure 8) and with a widespread distribution and habitat described as open woodland and mallee. Subspecies *angustifolia* occurs in central Victoria and in south-eastern South Australia. Subspecies *montana* only occurs in mountainous areas in western Victoria. Most likely to occur in intact patches and is commonly described as undershrub in woodland communities. Potentially occurs in intact Mallee and woodland patches within the Project area. This species was targeted as part of the spring surveys and while other *Prostanthera* species were recorded, none of this species were located during the spring survey.

Table 4. Threatened flora species listed under the EPBC Act and NPW Act identified in the PMST (Source 1), BDBSA (Source 2) database searches or observed during the field surveys (Source3). Likelihood of occurrence refers to occurrence within the Project area.

Scientific Name	Common Name	EPBC Act	NP&W Act	Data Source	Date of last record	Species known habitat preferences	Likelihood of occurrence
<i>Acacia enterocarpa</i>	Jumping-jack Wattle	EN	E	1	None	Mallee And grassy woodland with heavy clay soils with good rainfall. Highly unlikely in this area.	Unlikely
<i>Acacia praemorsa</i>	Senna Wattle	VU	E	1,2	23/06/2018	Mallee woodlands, open scrubs and open heath scrubs and in shady, sheltered sites in open mallee woodlands at the base of steep gullies. Not recorded during field survey.	Likely
<i>Acacia rhetinocarpa</i>	Neat Wattle	VU	V	1	None	Intact mallee on friable loams and often associated with areas where areas have been heavily cleared for cropping. Very unlikely this far north and no local records	Unlikely
<i>Austrostipa tenuifolia</i>	Spear Grass	-	R	2	01/12/1954	Sandy soils in grassland or grassy woodland associated with <i>Callitris</i> or <i>Allocasuarina</i> . Not recorded during field survey. Last record 1954.	Unlikely
<i>Caladenia brumalis</i>	Winter Spider-orchid	VU	V	1	None	Grows among grass and shrubs in light woodland or sedgeland usually over limestone and within a few kilometres of the sea.	Unlikely
<i>Caladenia tensa</i>	Green-comb Spider-orchid	EN	-	1	None	Intact woodlands and fragments where disturbance occurs but stratus still present.	Unlikely
<i>Caladenia zephyra</i>	West Wind Spider-orchid	-	V	2	01/09/2016	Grows in mixed <i>Callitris</i> - <i>Allocasuarina</i> woodland	Unlikely
<i>Ceratogyne obionoides</i>	Wingwort	-	R	2	05/11/1998	Records within Project area.	Unlikely
<i>Daviesia benthamii</i> ssp. <i>humilis</i>	Mallee Bitter-pea	-	R	2	05/11/1998	Grows in mallee.	Unlikely
<i>Daviesia devito</i>	Mallee Bitter-pea	-	R	2	30/10/1986	Grows in mallee, sometimes woodland or heathland and is found in scattered populations from the Eyre Peninsula in South Australia.	Unlikely
<i>Daviesia pectinata</i>	Zig-zag Bitter-pea	-	R	2	28/11/2012	Dryland Mallee and woodland. Not recorded within footprint but as isolated individuals in the general area.	Likely
<i>Eremophila gibbifolia</i>	Coccid Emubush	-	R	2	02/09/2016	Sandy loams usually under mallee	Unlikely
<i>Eucalyptus cretata</i>	Darke Peak Mallee	-	R	2,3	24/10/1977	Grow in mallee communities on the central Eyre Peninsula.	Known
<i>Goodenia benthamiana</i>	Bentham's Goodenia	-	R	2	16/10/1986	Forest, woodland and mallee scrubland.	Unlikely
<i>Limosella granitica</i>	Granite Mudwort	VU	V	1	None	Wet areas around granitic soils and depressions	Unlikely
<i>Lobelia cleistogamoides</i>	-	-	R	2	12/11/1998	Favours a coarse sand or gravelly loam often over granite.	Unlikely

Scientific Name	Common Name	EPBC Act	NP&W Act	Data Source	Date of last record	Species known habitat preferences	Likelihood of occurrence
<i>Maireana rohrlachii</i>	Rohrlach's Bluebush	-	R	2	7/11/1998	Saline or sandy loam soils rich in gypsum, often fringing lakes, and in seasonally wet areas.	Unlikely
<i>Olax obcordata</i>	-	-	R	2	16/10/1986	Woodlands, mallee and shrubland. Historic records suggest an association with calcareous soils or calcrete, predominately coastal.	Unlikely
<i>Olearia adenolasia</i>	Musk Daisy-bush	-	R	2	16/10/1986	In mallee on sandy soils.	Unlikely
<i>Olearia pannosa</i> ssp. <i>pannosa</i>	Silver Daisy-bush	VU	V	1	None	Open Mallee and grassy woodlands, often occurs in roadside reserves as disturbance tolerant.	Unlikely
<i>Philotheca angustifolia</i> ssp. <i>angustifolia</i>	Narrow-leaf Wax-flower	-	R	2	02/09/2016	Grows in open woodland.	Likely
<i>Prasophyllum fecundum</i>	Self-pollinating Leek-orchid	-	R	2	2/10/1998	Sandy soil, often with Callitris trees.	Possible
<i>Prasophyllum occultans</i>	Hidden Leek-orchid	-	R	2	6/10/1989	Mallee-Broombush or in low scrub about rock outcrops in the Lower North wheat-belt.	Possible
<i>Pterostylis mirabilis</i>	Nodding Rufoushood	VU	V	1	None	Occurs in coastal areas to areas about 100 km inland, in the high country (75–200 m above sea level) between Cleve and Kimba.	Unlikely
<i>Pterostylis</i> sp. <i>Hale</i>	Hale Dwarf Greenhood	EN	V	1	None	Occurring in mallee on Eyre Peninsula	Unlikely
<i>Pterostylis xerophila</i>	Desert Greenhood	VU	V	1	None	Dry woodland or granite or quartzite rock outcrops	Unlikely
<i>Spyridium bifidum</i> ssp. <i>bifidum</i>	Marble Range Spyridium	-	V	2	02/11/1998	Mallee shrubland on the Marble Range and on the hills to the east of Edillilie.	Possible
<i>Spyridium erymnocladum</i>	Cloaked Spyridium	-	R	2	6/10/1995	Open Shrubland	Possible
<i>Swainsona pyrophila</i>	Yellow Swainson-pea	VU	R	1	None	Short-lived, fire-adapted species that occurs in mallee vegetation communities in inland south-eastern Australia, where it is widely distributed from the northern Eyre Peninsula	Unlikely
<i>Wurmbea decumbens</i>	Trailing Nancy	-	R	2	20/07/1994	Moist well drained soils in open forest and woodland.	Unlikely

EPBC Act; EN = Endangered, VU = Vulnerable, NP&W Act; E = Endangered, V = Vulnerable, R = Rare.

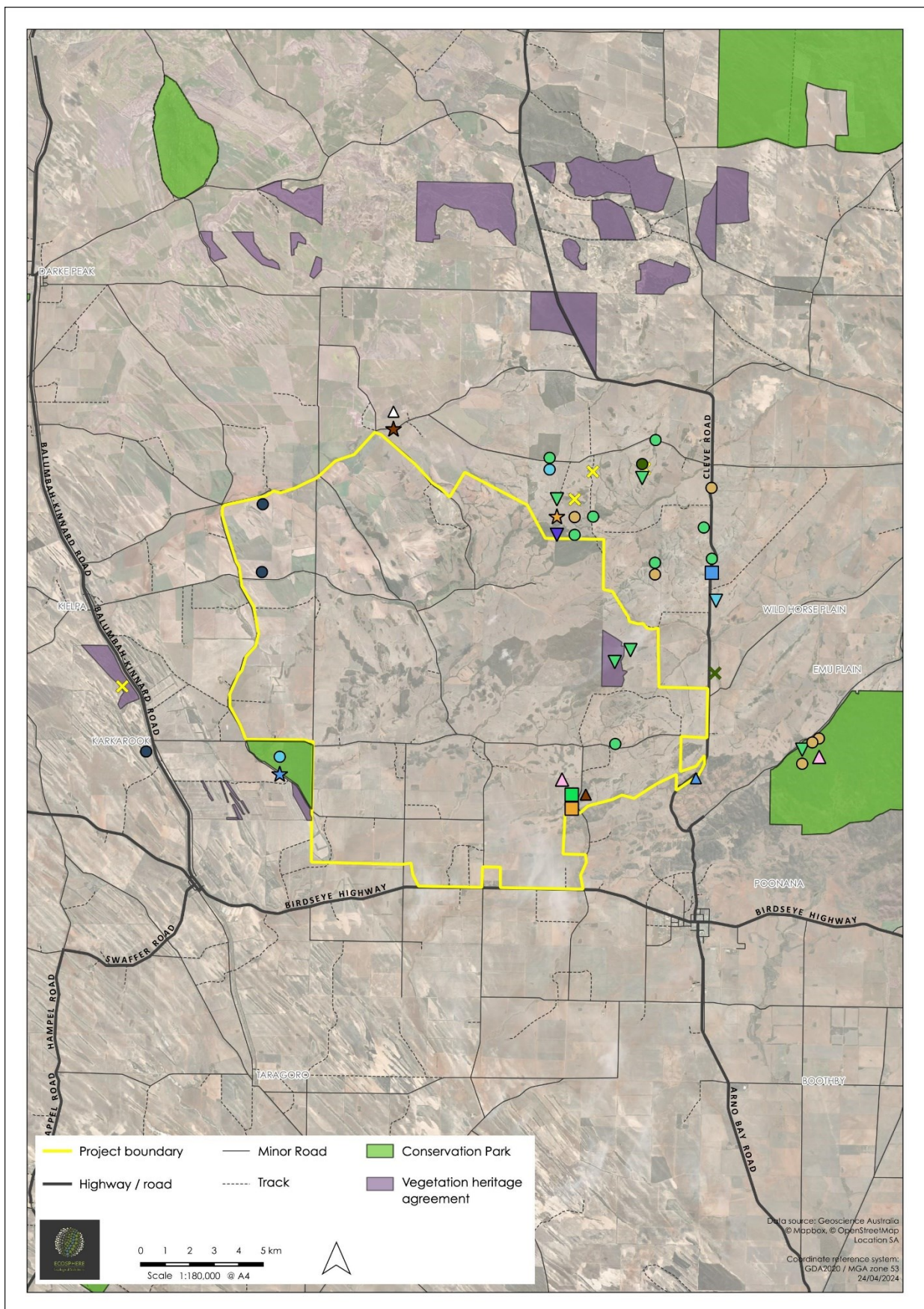


Figure 8. Historical BDBSA threatened flora records within CWF Study area (See Figure 9 for flora legend).

Threatened flora, EPBC (BDBSA records, number of records per point not represented)

▲ <i>Acacia praemorsa</i> (Senna Wattle) AUS : VU, SA : E	★ <i>Maireana rohrlichii</i> (Rohrlach's Bluebush) SA : R
▲ <i>Austrostipa tenuifolia</i> SA : R	▼ <i>Olax obcordata</i> SA : R
▲ <i>Caladenia zephyra</i> (West Wind Spider-orchid) SA : V	▼ <i>Olearia adenolasia</i> (Musk Daisy-bush) SA : R
▲ <i>Ceratogyne obionoides</i> (Wingwort) SA : R	▼ <i>Philotheca angustifolia</i> ssp. <i>angustifolia</i> (Narrow-leaf Wax-flower) SA : R
● <i>Daviesia benthamii</i> ssp. <i>humilis</i> (NC) (Mallee Bitter-pea) SA : R	■ <i>Prasophyllum fecundum</i> (Self-pollinating Leek-orchid) SA : R
● <i>Daviesia devito</i> (Mallee Bitter-pea) SA : R*	■ <i>Prasophyllum occultans</i> (Hidden Leek-orchid) SA : R
● <i>Daviesia pectinata</i> (Zig-zag Bitter-pea) SA : R	■ <i>Spyridium bifidum</i> ssp. <i>bifidum</i> (Marble Range Spyridium) SA : V
● <i>Eremophila gibbifolia</i> (Coccid Emubush) SA : R	■ <i>Spyridium bifidum</i> var. <i>Wanilla</i> (K.Clipstone 88) (NC) (Vanilla Spyridium) SA : V
● <i>Eucalyptus cretata</i> (Darke Peak Mallee) SA : R	✕ <i>Spyridium erymnocladum</i> (Cloaked Spyridium) SA : R
★ <i>Goodenia benthamiana</i> (Bentham's Goodenia) SA : R	✕ <i>Wurmbea decumbens</i> (Trailing Nancy) SA : R
★ <i>Lobelia cleistogamoides</i> SA : R	

Figure 9. Historical BDBSA threatened flora records within CWF Study area legend.

5.4 Significant Fauna

5.4.1 Nationally Significant Fauna

Fifteen fauna species listed as threatened under the EPBC Act were identified in the PMST report as potentially occurring or having suitable habitat within the CWF Study area (Table 5 & Figure 8).

Two species of national conservation significance had historical BDBSA records and were known from or considered possible or likely to occur in the Project area given the presence of suitable habitat. These were:

- Malleefowl (*Leipoa ocellata*) AUS:VU, SA: V
- Diamond Firetail (*Stagonopleura guttata*) AUS: VU, SA: V

Malleefowl (*Leipoa ocellata*) EPBC: VU, NPW: V

Malleefowl were listed as Vulnerable under the EPBC Act on 16 July 2000 due to continued population decline (DCCEEW, 2023c). Their population has shown steep declines in breeding densities over the past decade and further declines are expected as many remaining populations are small and isolated, are threatened by introduced competitors and predators, and are subject to recurrent catastrophic events that severely threaten habitat quality and the viability of populations. Malleefowl are found principally in the semi-arid to arid zone in shrublands and low woodlands dominated by mallee, in particular, habitats on sandy substrates that support *Triodia* (Spinifex) were of greatest importance. They are generalist feeders, and their diet includes seeds, flowers, fruits, invertebrates, tubers and fungi (Benshemesh, 2007). The species was considered as possibly occurring within the Study area based on the desktop assessment. However, following ground truthing of historical records and a lack of suitable habitat recorded within the Project area, this was downgraded to a presence likelihood of Unlikely. No evidence of critical habitat or historical nesting mounds, either active or

inactive, were observed during the field assessment. The habitat, in lacking significant *Triodia* and dense litter cover therefore was marginal at best. The site has a high level of fragmentation meaning individuals would find dispersal and finding new mates difficult and unable to persist in this environment.

Diamond Firetail (*Stagonopleura guttata*) EPBC: VU, NPW: V

Diamond Firetail was listed as Vulnerable under the EPBC Act on 31st March 2023 due to continued population decline (DCCEEW, 2023d) attributed to the clearance of native vegetation for large scale agriculture which has reduced the size and quality of important nesting and breeding habitats. Diamond Firetails occur in *Eucalypt*, *Acacia* or *Casuarina* woodlands, open forests and other lightly timbered habitats, including farmland and grassland with scattered trees. They feed predominantly on grass and herb seeds, green leaves and insects. Habitat critical to the survival of the Diamond Firetail includes areas of low tree density, few large logs, and little litter cover but high grass cover for foraging, roosting and breeding. This type of habitat is present across the wind farm site with many fragments having good grass cover despite the loss of mid and lower storey shrubs in many areas. The species or species habitat is known to occur within the Study area and this species was observed during targeted surveys in spring 2024. See section 8.3 for further detail.

5.4.2 Migratory Species

Eleven migratory species listed under the EPBC Act were highlighted as potentially present within the Study area (Table 5). None were considered likely to utilise the Project area due to a lack of habitat deemed suitable for migratory species. This includes shallow wetlands such as lakes and vegetated swamps, ephemeral salt pans and large waterbodies that supply invertebrate feeding habitat and protection from predators. The potential impact of wind farms on migratory species must be considered, however, when considering the Cleve area is likely to be under migratory flight paths for many species highlighted as part of desktop studies. See Section 8.2 for more information.

5.4.3 State Threatened Fauna

Six fauna species of state conservation significance had historical records from the BDBSA search within the Study area (Table 5). Threatened fauna and migratory species listed under the EPBC Act and NPW Act identified in the PMST (Source 1) and BDBSA (Source 2) database searches or observed during the field survey (Source 3). Of these, three species were considered as likely or possible to occur within the Project area:

- Shy Heathwren (*Hylacola cauta cauta*) NPW: R
- Purple-gaped Honeyeater (*Lichenostomus cratitius occidentalis*) NPW: R
- Gilbert's Whistler (*Pachycephala inornata*) NPW: R

Shy Heathwren (*Hylacola cauta cauta*) NPW: R

This species occurs within dense shrub or heath understorey in mallee woodland or shrubland so is likely to be largely confined to larger remnant patches away from the project footprint. The most recent record occurs from 2004 in the heritage agreement in the eastern portion of the Study area and is unlikely to occur within more fragmented areas of the site. The threats to this species from a project perspective are increased fragmentation of intact areas and disturbance from noise associated with construction.

Purple-gaped Honeyeater (*Lichenostomus cratitius occidentalis*) NPW: R

Occurs in Mallee and woodland habitats within the Study area and therefore is likely to occur periodically. Primarily feeds on nectar from mallee eucalypts and banksias but will also take insects from foliage and bark or whilst on the wing. Seeds, pollen and honeydew from scale insects (coccids) are less frequently consumed. Key threats in this area would be loss of connectivity between feeding areas such as creek lines, road reserves and other corridors that allow for movement through the landscape in search of foraging habitat.

Gilbert's Whistler (*Pachycephala inornata*) NPW: R

The species is typically found in semi-arid mallee woodland and occasionally in taller, semi-arid eucalypt woodland or forest, usually where a dense understorey is present (Higgins and Peter 2002). The Gilbert's Whistler feeds on the ground and in understorey layers, primarily on invertebrate prey, although they also eat fruit and seeds (Higgins and Peter 2002).

A list of all fauna species with records within the survey area is shown in Appendix 2.

Table 5. Threatened fauna and migratory species listed under the EPBC Act and NPW Act identified in the PMST (Source 1) and BDBSA (Source 2) database searches or observed during the field survey (Source 3). Likelihood of habitat use refers to habitat use within the Project area.

Scientific Name	Common Name	EPBC Act	NP&W Act	Data Source	Date of last record	Species known habitat preferences	Likelihood of habitat use
Aves							
<i>Actitis hypoleucos</i>	Common Sandpiper	Mi	R	1,2	16/10/2002	Migratory shorebird. Does not breed in Australia. Wide range of both coastal wetlands and some inland wetlands (Birdlife International 2024).	Unlikely
<i>Amytornis textilis myall</i>	Western Grasswren (Gawler Ranges)	VU	V	1	None	Inhabit low Blackbush (<i>Maireana pyramidata</i>) and/or Australian boxthorn (<i>Lycium australe</i>) shrublands as well as Western Myall (<i>Acacia papyrocarpa</i>) low woodland (DoE, 2014). Preferred habitats occur on drainage lines, low rocky hills, and semi-arid woodlands.	Unlikely
<i>Aphelocephala leucopsis</i>	Southern Whiteface	VU	-	1	None	Occurs across most of mainland Australia south of the tropics in a wide range of open woodlands and shrublands where there is an understorey of grasses or shrubs, or both. Prefers habitat with low tree densities and herbaceous understorey litter cover which provides essential foraging habitat (DCCEEW 2023a). No previous records occur within the Study area.	Unlikely
<i>Apus pacificus</i>	Fork-tailed Swift	Mi	-	1	None	Aerial migratory species. Rarely recorded on the ground (ALA, 2024). No previous records within the Study area.	Unlikely
<i>Botaurus poiciloptilus</i>	Australasian Bittern	EN	E	1	None	Inhabit shallow, vegetated freshwater or brackish swamps and on occasion can feed away from waterbodies such as in grassland or crop stubble (Birdlife International 2024).	Unlikely
<i>Calidris acuminata</i>	Sharp-tailed Sandpiper	VU, Mi	-	1	None	Migratory shorebird. Does not breed in Australia. Inhabits Intertidal mudflats, freshwater swamps, and saltwater lakes (ALA, 2024). No previous records within the Study area.	Unlikely
<i>Calidris ferruginea</i>	Curlew Sandpiper	CR, Mi	E	1	None	Migratory shorebird. Does not breed in Australia. Prefers coastal or inland mudflats but will also visit artificial dams and inland water habitats, freshwater and brackish wetlands (BirdLife International, 2024).	Unlikely
<i>Calidris melanotos</i>	Pectoral Sandpiper	Mi	R	1	None	Migratory shorebird. Inhabits freshwater or brackish wetlands, grassy or lightly vegetated coastal and inland swamps (BirdLife International, 2024).	Unlikely

Scientific Name	Common Name	EPBC Act	NP&W Act	Data Source	Date of last record	Species known habitat preferences	Likelihood of habitat use
<i>Charadrius veredus</i>	Oriental Plover	Mi	-	1	None	Migratory shorebird. Inhabits both coastal habitats (estuarine mudflats and sandbanks, sandy or rocky ocean beaches or nearby reefs, near-coastal grasslands) and flat, open, semi-arid or arid grasslands (DCCEEW, 2024).	Unlikely
<i>Cinclosoma castanotum</i>	Chestnut Quailthrush	-	R	2	01/08/2020	Inhabits mallee shrubland as well as other types of dry woodlands and scrublands over much of the southern inland	Unlikely
<i>Falco hypoleucos</i>	Grey Falcon	VU	R	1	None	Inhabits shrubland, grassland and wooded watercourses in arid/semi-arid regions of inland areas. Widespread, but sparse distribution across Australia (BirdLife International, 2024).	Unlikely
<i>Gallinago hardwickii</i>	Latham's Snipe	Mi	R	1	None	Migratory wetland species. Inhabits tussock grass and low dense sedges surrounding freshwater, permanent and ephemeral wetlands (BirdLife International, 2024). Can also occur in habitats with saline or brackish water.	Unlikely
<i>Grantiella picta</i>	Painted Honeyeater	VU	R	1	None	Inhabits dry, open forests and woodlands. Associated with mistletoe (DCCEEW, 2023c). Project area occurs outside of species known range.	Unlikely
<i>Hylacola cauta cauta</i>	Shy Heathwren (EP, YP, FR, MM, upper SE)	-	R	2	20/11/2004	Dense shrub or heath understorey in mallee woodland or shrubland (BirdLife International, 2024).	Possible
<i>Leipoa ocellata</i>	Malleefowl	VU	V	1,2	1/1/1973	Ground-dwelling species which makes large conspicuous nesting mounds. Inhabits semi-arid to arid shrublands and low woodlands. Sandy soils and abundance leaf litter are required for breeding (DCCEEW, 2024c).	Unlikely
<i>Lichenostomus cratitius occidentalis</i>	Purple-gaped Honeyeater (mainland SA)	-	R	2	28/11/2002	Mallee woodland and heathland (BirdLife Australia, 2024)	Likely
<i>Motacilla cinerea</i>	Grey Wagtail	Mi	-	1	None	Uncommon terrestrial migratory species. Prefers fast-flowing streams and rivers often in forested areas, in addition to lowland watercourses (BirdLife International, 2024).	Unlikely
<i>Motacilla flava</i>	Yellow Wagtail	Mi	-	1	None	Uncommon terrestrial migratory species. Has undergone taxonomic revision, this race is now <i>M. tschutschensis</i> . Inhabits a variety of damp or wet habitats including marshes and bogs (BirdLife International, 2024). Forages in damp grassland or on bare ground at the edge of rivers, lakes and other wetlands.	Unlikely

Scientific Name	Common Name	EPBC Act	NP&W Act	Data Source	Date of last record	Species known habitat preferences	Likelihood of habitat use
<i>Neophema chrysostoma</i>	Blue-winged Parrot	VU	V	1	None	Inhabits a range of habitats from coastal, sub-coastal and inland areas, through to semi-arid zones. Favours grasslands and grassy woodlands and are often found near wetlands both near the coast and in semi-arid zones. Also occurs in altered environments such as airfields, golf-courses and paddocks. Will forage on saltmarsh.	Unlikely
<i>Pachycephala inornata</i>	Gilbert's Whistler	-	R	2	28/09/1995	Semi-arid woodland and shrublands (BirdLife International, 2024).	Possible
<i>Pandion haliaetus</i>	Osprey	Mi	E	1	None	Areas around shallow waters, sufficiently tolerant of human settlement to persist in suburban and sometimes urban environments (BirdLife International, 2024).	Unlikely
<i>Pedionomus torquatus</i>	Plains-wanderer	CR	E	1	None	Small, ground-dwelling bird. Inhabits semi-arid, native grasslands with a diversity of plant species, which usually occur on red-brown soils.	Unlikely
<i>Rostratula australis</i>	Australian Painted Snipe	EN	E	1	None	Wetland species. Inhabits freshwater wetlands with dense reeds and rushes/ well vegetated margins.	Unlikely
<i>Stagonopleura guttata</i>	Diamond Firetail	VU	V	1,2,3	27/11/2012	Eucalypt, acacia or casuarina woodlands, open forests and other lightly timbered habitats, including farmland and grassland. Prefer areas with relatively low tree density, little litter cover but high grass cover (DCCEEW, 2023d).	Likely
<i>Sternula nereis nereis</i>	Australian Fairy Tern	VU	E	1	None	Inhabits coasts and estuaries, and breeds on sandy beaches and banks above the high tide line and below vegetation.	Unlikely
Mammals							
<i>Sminthopsis psammophila</i>	Sandhill Dunnart	EN	V	1	None	Occurs in sandy substrates in arid and semi-arid regions dominated by spinifex hummock grass (<i>Triodia</i> species) and sand dunes.	Unlikely

Source: 1: EPBC Act; CR = Critically Endangered, EN = Endangered, VU = Vulnerable, Mi = Migratory. 2: NP&W Act; E = Endangered, V = Vulnerable, R = Rare.

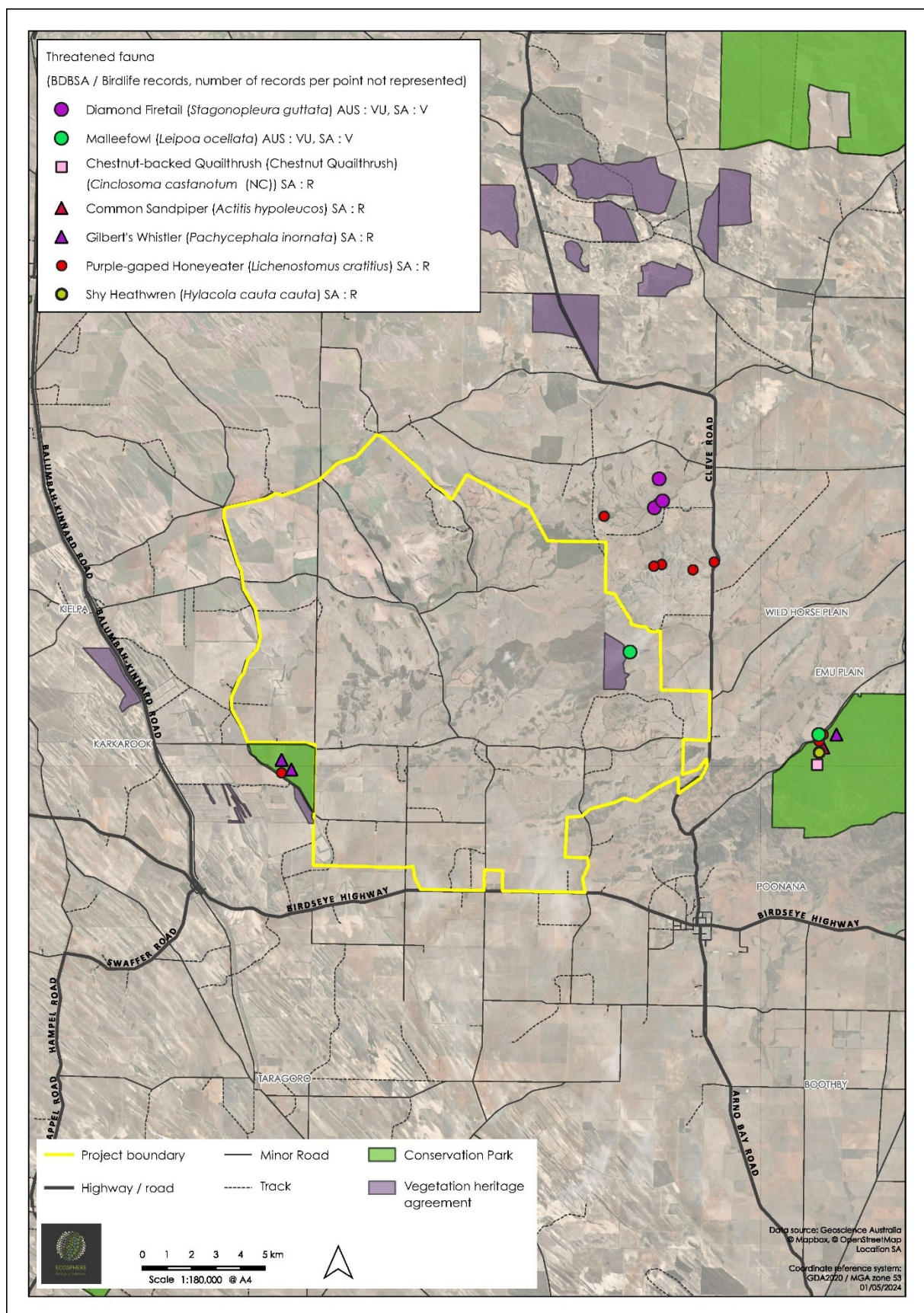


Figure 10. Historical BDBSA threatened fauna records within CWF Study area

6 Field Survey Results

6.1 General Landscape

The landscape generally consisted of low undulating plains supporting *Eucalyptus odorata* and *Eucalyptus petiolaris* or reddish sand loams with rock outcrops supporting *Eucalyptus incrassata* / *Melaleuca uncinata* mallee. The Project area overwhelmingly consisted of open, cropped paddocks with vegetation mainly restricted to areas not suitable for cropping as either rocky or deep sandy rises and hills or deeper valleys and ephemeral creeks, many of which were degraded due to grazing from stock and/or rabbits or spoilage from cropping activities (e.g., large mounds of rocks removed from paddocks), in drainage lines and other inaccessible areas, and as roadside corridors. Three large areas of intact vegetation totalling approximately 870 ha were present within the project boundary.

The remnant vegetation patches had evidence of grazing (scats) from livestock (sheep), native fauna (Kangaroo) and/or invasive species (rabbit), and edge effects of erosion and weeds from cropping land.

6.2 Baseline Survey

The baseline survey focussed on the CWF Project area as a whole. Despite being a broad overarching assessment, some targeted assessment approaches were used where availability of information allowed for a refined approach to species considered likely to occur such as Mallee Fowl where ground truthing of historical observations (i.e. nesting mounds) could be undertaken to give definitive outcomes for presence or availability of habitat. A provisional layout also allowed for targeted assessments where the layout interacted with areas such as:

- Historical conservation significant species observations
- Areas of high conservation value such as reserves or large intact blocks
- Specific habitats/niches such as creeks or outcrops

The observations and outcomes of the baseline assessment combined with the desktop assessment provided the information necessary as a first step to refinement of the provisional layout. A hierarchical approach of avoidance and minimisation was integral in planning for the project wherever it interacted with areas of moderate or high ecological value.

6.2.1 Vegetation Associations

Eight broad vegetation associations were recorded within the Project area during the March survey (Table 6), however this was exclusive of large intact patches and reserves not interacting directly with the Project area.

Associations were limited therefore to vegetation that:

- Interacts with or in the vicinity of cable routes, access routes and turbine pads
- Occurs on road reserves leading to access and cable routes
- Areas that may provide alternative alignments of lower value
- Areas of vegetation outside of footprints likely to contain or provide habitat for species of conservation significance

Vegetation association 3 was consistent with the EPBC listed TEC EPBGW (See Sections 5.2 and 8.1 for more information).

Table 6. Vegetation Association Descriptions

Assoc	Association Description
1	<i>Allocasuarina verticillata</i> (Drooping Sheoak) +/- <i>Eucalyptus socialis</i> (Red Mallee) very low open forest over open grassland and +/- sedges
2	<i>Eucalyptus brachycalyx</i> (Gilja) very open mallee over native grassland
3	<i>Eucalyptus petiolaris</i> (Eyre Peninsula Blue Gum) / <i>Eucalyptus odorata</i> (Peppermint Box) low woodland (TEC)
4	<i>Eucalyptus</i> spp. mixed mallee over <i>Bursaria Spinosa</i> (Christmas Bush) / <i>Melaleuca uncinata</i> (Broom Bush) very open shrubland and open grassland
5	<i>Eucalyptus</i> spp. mixed mallee over <i>Melaleuca uncinata</i> (Broom Bush) open shrubland
6	<i>Eucalyptus</i> spp. mixed mallee over <i>Melaleuca uncinata</i> (Broom Bush) open shrubland +/- native grasses and sedges
7	<i>Melaleuca uncinata</i> (Broom Bush) shrubland over +/- very open grassland and very open sedgeland
8	<i>Melaleuca uncinata</i> (Broom Bush) tall shrubland with emergent <i>Eucalyptus phenax</i> (White Mallee) / <i>Eucalyptus oleosa</i> (Red Mallee) / <i>Eucalyptus leptophylla</i> (Narrow-leaved Red Mallee)

A description of the habitats associated with the wind farm are described in detail below.

Vegetation Association 1		Allocasuarina verticillata (Drooping Sheoak) +/- Eucalyptus socialis (Red Mallee) very low open forest over open grassland and +/- sedges	
DIRECTION 236 deg(T)		33.62645°S 136.38174°E	ACCURACY 5 m DATUM WGS84
			
WP59		2024-03-21 10:40:01+10:30	
General description		Open forest in good condition with a sparse understorey of low shrubs and grasses. Weed coverage is greater where the edges border with agricultural paddocks and decrease towards the interior into fairly intact forest. This community is not consistent with Drooping Sheoak (Allocasuarina verticillata) Grassy Woodland on Calcrete of the Eyre Yorke Block Bioregion, a nationally significant TEC.	
Threatened species or community		The vegetation association could possibly provide habitat for the following threatened fauna species: <ul style="list-style-type: none">Gilbert's Whistler (Pachycephala inornata) NPW: RDiamond Firetail (Stagonopleura guttata) EPBC: VU, NPW: V	

Vegetation Association 2		<i>Eucalyptus brachycalyx</i> (Gilja) very open mallee over native grassland	
DIRECTION 58 deg(T)		33.58889°S 136.44901°E	ACCURACY 5 m DATUM WGS84
		WP36 2024-03-20 11:36:23+10:30	
General description		Grassland with very open mallee canopy and scattered small shrubs. More intact and in good condition at the top of the rise where there is a substantial covering of small rocks with moss and deteriorates with more weeds present towards agricultural paddocks.	
Threatened species or community		The vegetation association could possibly provide habitat for the following threatened fauna species: <ul style="list-style-type: none"> • Diamond Firetail (<i>Stagonopleura guttata</i>) EPBC: VU, NPW: V 	

Vegetation Association 3

Eucalyptus petiolaris (Eyre Peninsula Blue Gum) / *Eucalyptus odorata* (Peppermint Box) low woodland



General description

Fairly intact woodland with understorey of medium shrubs and grasses. Few weed species present and in small numbers. Located in a drainage line, with some deeper depressions that would potentially hold larger amounts of water during wetter months. This patch representative by TEC Patch 1.

Threatened species or community

The Eyre Peninsula Blue gum (*Eucalyptus petiolaris*) Woodland is a Threatened Ecological Community listed as Endangered under the EPBC Act.

The vegetation association could possibly provide habitat for the following threatened fauna species:


- Purple-gaped Honeyeater (*Lichenostomus cratitius*) NPW: R
- Diamond Firetail (*Stagonopleura guttata*) EPBC: VU, NPW: V

Vegetation Association 4		Eucalyptus spp. mixed mallee over <i>Bursaria Spinosa</i> (Christmas Bush) / <i>Melaleuca uncinata</i> (Broom Bush) very open shrubland and open grassland	
DIRECTION 15 deg(T)		33.59432°S 136.43563°E	ACCURACY 5 m DATUM WGS84
		<p>WP32</p> <p>2024-03-20 10:32:02+10:30</p>	
General description		Moderately degraded habitat with evidence of grazing from livestock and rabbits and greater abundance of weeds. Few taller trees, with a mix of native and exotic grasses.	
Threatened species or community		<p>The vegetation association could possibly provide habitat for the following threatened fauna species:</p> <ul style="list-style-type: none"> • Purple-gaped Honeyeater (<i>Lichenostomus cratitius</i>) NPW: R • Gilbert's Whistler (<i>Pachycephala inornata</i>) NPW: R • Diamond Firetail (<i>Stagonopleura guttata</i>) EPBC: VU, NPW: V 	

Vegetation Association 5		Eucalyptus spp. mixed mallee over <i>Melaleuca uncinata</i> (Broom Bush) open shrubland	
DIRECTION 104 deg(T)		33.62474°S 136.34160°E	ACCURACY 5 m DATUM WGS84
			
WP56		2024-03-21 08:57:40+10:30	
General description		Intact Mallee with areas of bare open ground and low weed cover. Limestone strew with a good cover of medium height shrubs, vegetation in good condition with little grass cover. These communities were often of higher species richness and condition due to lack of soil depth making it difficult for exotic species to compete with indigenous flora.	
Threatened species or community		The vegetation association could possibly provide habitat for the following threatened fauna species: <ul style="list-style-type: none">Purple-gaped Honeyeater (<i>Lichenostomus cratitius</i>) NPW: RGilbert's Whistler (<i>Pachycephala inornata</i>) NPW: R	

Vegetation Association 6		Eucalyptus spp. mixed mallee over <i>Melaleuca uncinata</i> (Broom Bush) open shrubland +/- native grasses and sedges	
<div>DIRECTION 215 deg(T)</div>		<div>33.63163°S 136.46370°E</div>	<div>ACCURACY 5 m DATUM WGS84</div>
<div><div>WP68</div><div>2024-03-21 13:49:30+10:30</div></div>			
General description	Low mallee often present as fragments where shallow soil depth was not suitable for cropping with ironstone and stone strew coupled with exposure to wind on crests and slopes of hills leading to poor growth with many small trees rather than less large habit trees. A resulting lower ecological value for this community with a lack of structures present such as hollow bearing limbs, mid and understorey shrubs and grass tussocks. A large number of these fragments were also narrow and long in shape aligning with rocky ridges and therefore further reduced quality due to high edge effect impacts with annual grass invasion into fringes of community.		
Threatened species or community	The vegetation association could possibly provide habitat for the following threatened fauna species: <ul style="list-style-type: none">Purple-gaped Honeyeater (<i>Lichenostomus cratitius</i>) NPW: RGilbert's Whistler (<i>Pachycephala inornata</i>) NPW: RDiamond Firetail (<i>Stagonopleura guttata</i>) EPBC: VU, NPW: V		

Vegetation Association 7		<i>Melaleuca uncinata</i> (Broom Bush) shrubland over +/- very open grassland and very open sedgeland	
DIRECTION 341 deg(T)		33.63687°S 136.43859°E	ACCURACY 4 m DATUM WGS84
			
WP82		2024-03-22 09:03:00+10:30	
General description		Only observed as roadside vegetation. In good condition, medium shrubs with no trees and small sedges and grasses with few weeds present. The soil type this community favours is less favourable for exotic grass species with shallow soils and pH values that lock up nutrients for species not adapted to these conditions.	
Threatened species or community		The vegetation association could possibly provide habitat for the following threatened species: <ul style="list-style-type: none">• Purple-gaped Honeyeater (<i>Lichenostomus cratitius</i>) NPW: R• Gilbert's Whistler (<i>Pachycephala inornata</i>) NPW: R	

Vegetation Association 8	<i>Melaleuca uncinata</i> (Broom Bush) tall shrubland with emergent <i>Eucalyptus phenax</i> (White Mallee) / <i>Eucalyptus oleosa</i> (Red Mallee) / <i>Eucalyptus leptophylla</i> (Narrow-leaved Red Mallee)	
DIRECTION 14 deg(T)	33.59972°S 136.36350°E	ACCURACY 4 m DATUM WGS84
 <div data-bbox="331 1265 405 1299">WP45</div> <div data-bbox="1099 1249 1350 1317">2024-03-20 15:03:19+10:30</div>		
General description	Tall shrubland with few emergent eucalypt species. Substantial rock cover and extensive moss, heavily grazed and in poor condition with few grasses or sedges. As with association 6 these communities are relatively well represented within Project areas as these are remnants on areas not cleared for cropping due to lack of soil. Granite outcropping consists of species adapted to soil type and usually has low species richness and degraded of significant forb growth due to grazing.	
Threatened species or community	The vegetation association could possibly provide habitat for the following threatened species: <ul style="list-style-type: none"> Purple-gaped Honeyeater (<i>Lichenostomus cratitius</i>) NPW: R 	

6.3 Threatened Ecological Communities

As described in section 5.2, one TEC was recorded during initial assessment and the targeted survey was undertaken in part to determine the quality of EPBGW patches during spring when annual forbs and grasses were most likely to be present and therefore provide reliability in aligning with diagnostic characteristics and species richness totals.

Patches potentially interacting directly with the Project area were assessed against the Condition Thresholds as prescribed by the conservation advice for this TEC (See Appendix 2 for condition categories and thresholds information). Patches along roadside reserves that did not interact directly with the CWF project were not assessed, however were still mapped due to final layouts and access routes for the project still being finalised at the time of writing this report.

Eight patches were identified during the targeted survey (Table 8 and Figure 12) with three being assessed against the Condition Thresholds as prescribed by the conservation advice for this TEC (See Appendix XX for more information).

A summary of an assessment against the TEC criteria provided in the listing advice is presented in Table 7. A representative photo of the TEC is shown in Figure 11. The extent of the TEC within the CWF Project area is shown in Figure 13 to Figure 15.

Table 7. *Eucalyptus petiolaris* Key diagnostic characteristics.

Key diagnostic characteristics	Meets condition
Distribution occurs within the Eyre York Block bioregion – in the Eyre Hills subregion EYB03 with outliers possibly occurring within the Talia subregion EYB04 (IBRA Version 7) of the Eyre Peninsula	Yes – Eyre Hills Sub-region.
Vegetation structure is typically woodland to open forest.	Yes.
The upper layer is dominated or co-dominated by <i>Eucalyptus petiolaris</i> (blue gum), and the tree canopy cover is 10% or more.	Yes, normally co-dominant with <i>Eucalyptus odorata</i> (Peppermint Box)
The mid layer varies from open to dense in response to soil moisture and disturbance and/or management history and consists of native sclerophyllous shrubs and small trees.	Generally open as all areas interacting with the project are grazed and therefore much under and mid storey diversity is compromised from the benchmark community.
The ground layer is variable in development and composition, ranging from sparse to a thick layer of native grasses and other herbs. Ground layer flora typically is dominated by one or more of the graminoid genera: <i>Austrostipa</i> , <i>Carex</i> , <i>Chorizandra</i> , <i>Gahnia</i> , <i>Juncus</i> , <i>Lepidosperma</i> , <i>Lomandra</i> and <i>Rytidosperma</i> ; but also, often contains other herbs and small shrubs.	Generally degraded condition but present.
The ecological community is mainly restricted to well-drained, moderate to high fertility soils and is typically associated with sheltered valleys, lower hill slopes and watercourses in the higher rainfall districts of the Eyre Peninsula.	Yes.



Figure 11. Patch 3a Mixed *Eucalyptus petiolaris* / *E. odorata* Woodland along watercourse qualifying as the EPBGW TEC.

Table 8. EPBGW patches within the CWF Project area

Patch Number	Category Rating	Comment
1	C2	Identified during autumn survey, targeted survey in spring – layout refined to be avoided.
2	Not Assessed	Explore refinement options
3A	C2 – Potentially C1	Further refinement may be required to minimise impacts
3B	C2 – Potentially C1	Further refinement may be required to minimise impacts
4	Not Assessed	Explore refinement options
5	Not Assessed	Explore refinement options
6	Not Assessed	Explore refinement options
7	Not Assessed	Explore refinement options

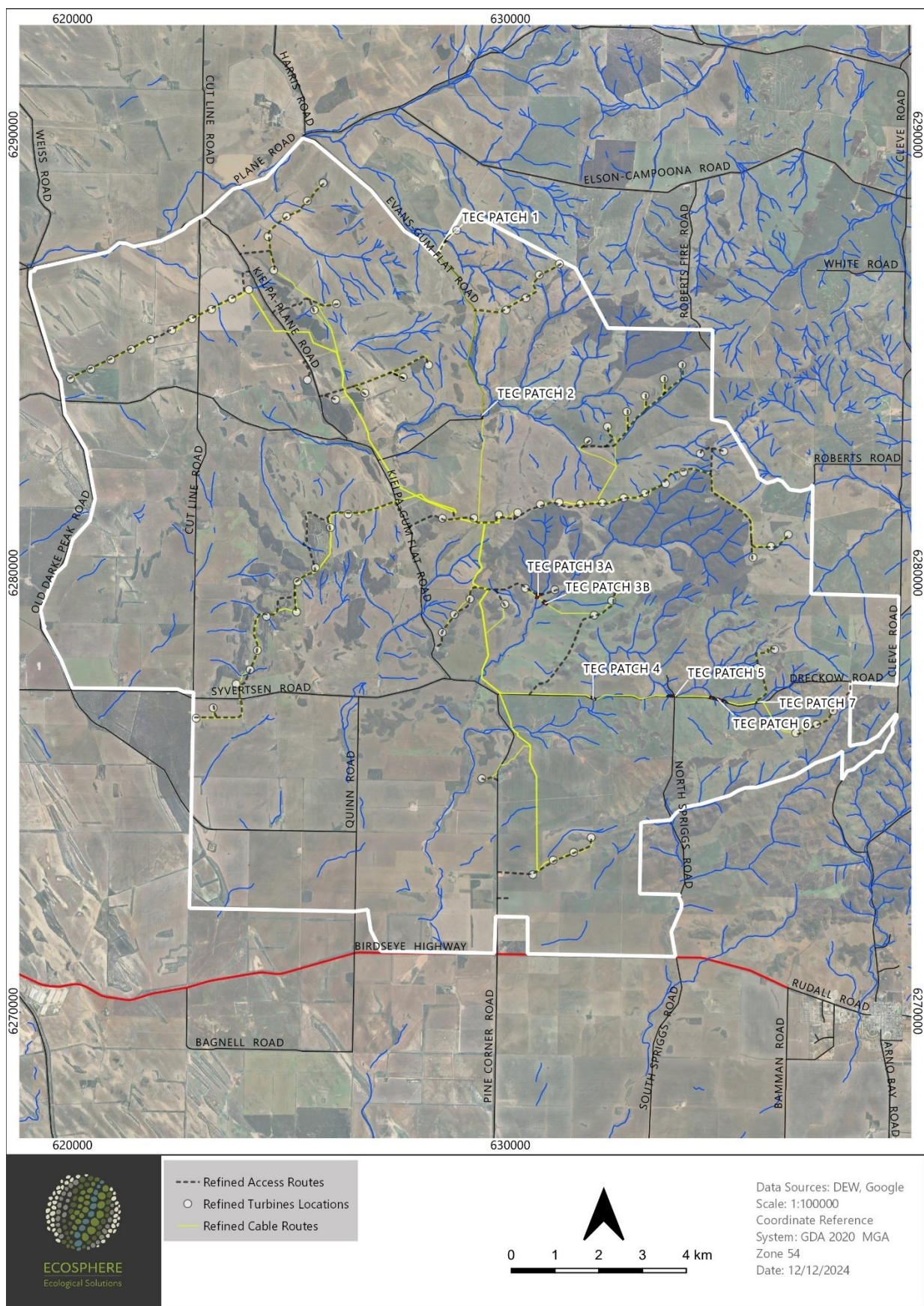


Figure 12. TEC locations within the CWF Project area.

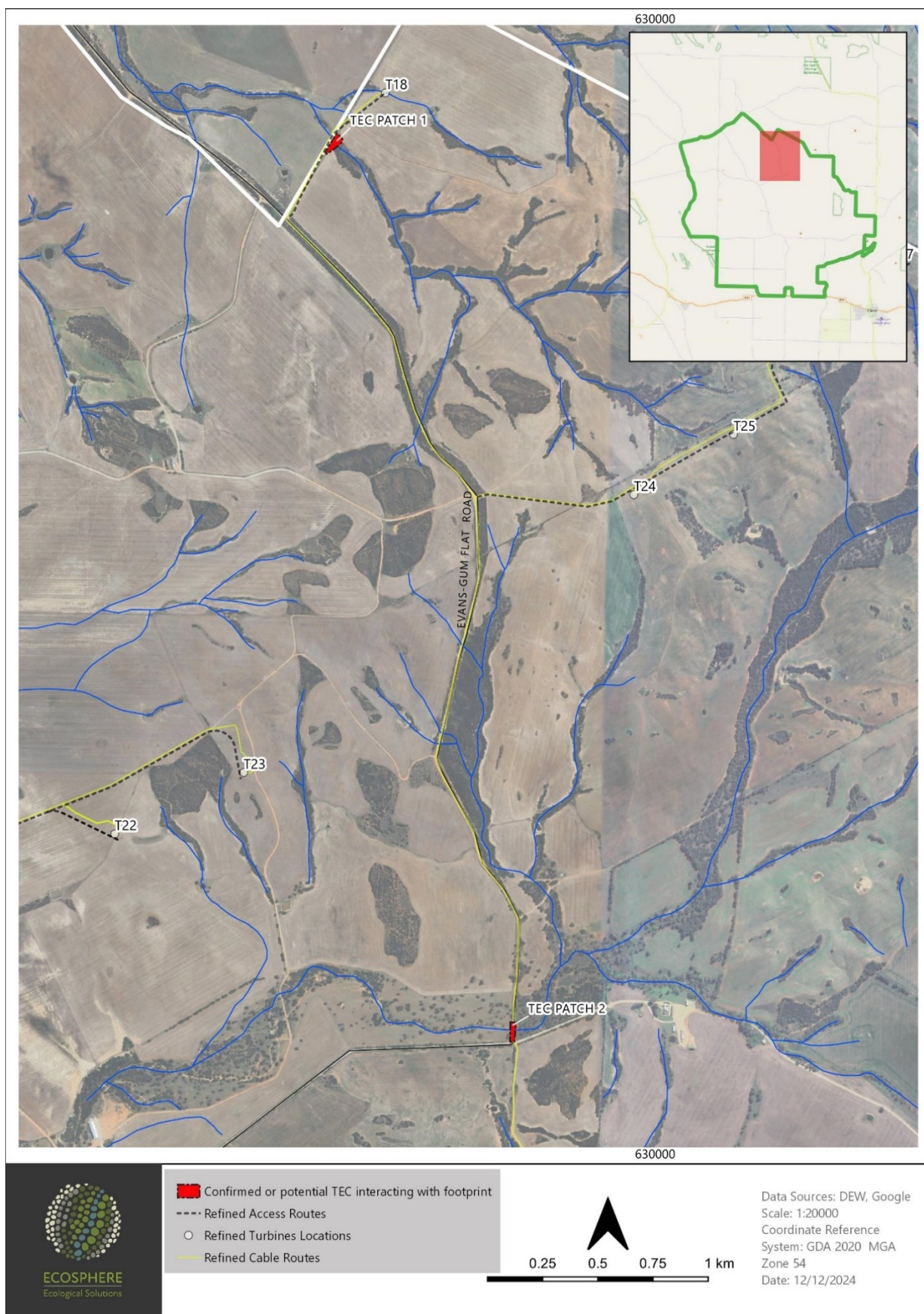


Figure 13. Locations of EPBGW TEC patch 1 and 2 interacting with or in close proximity to CWF footprint.

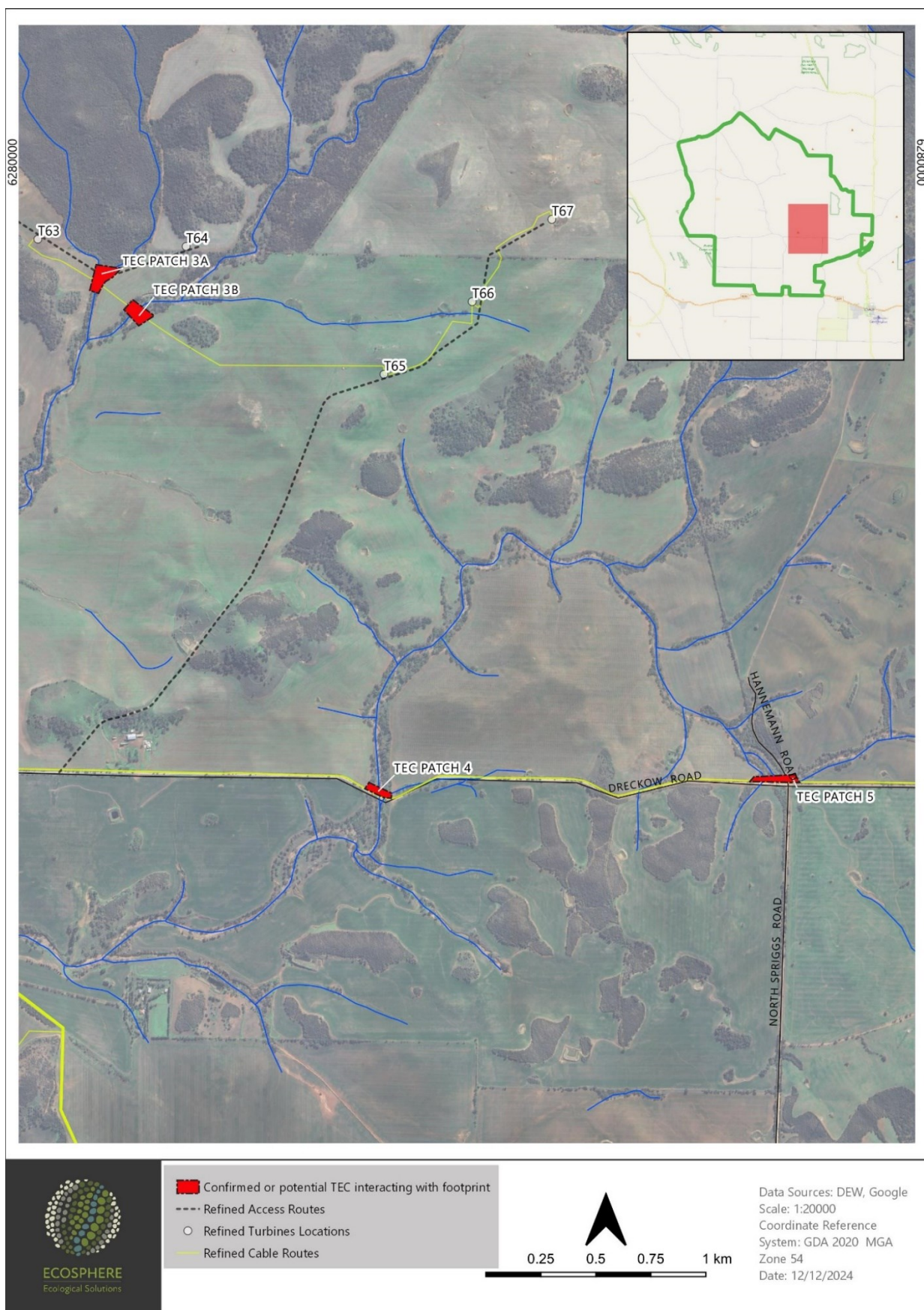


Figure 14. EPBGW TEC communities patches 3a, 3b, 4 and 5.

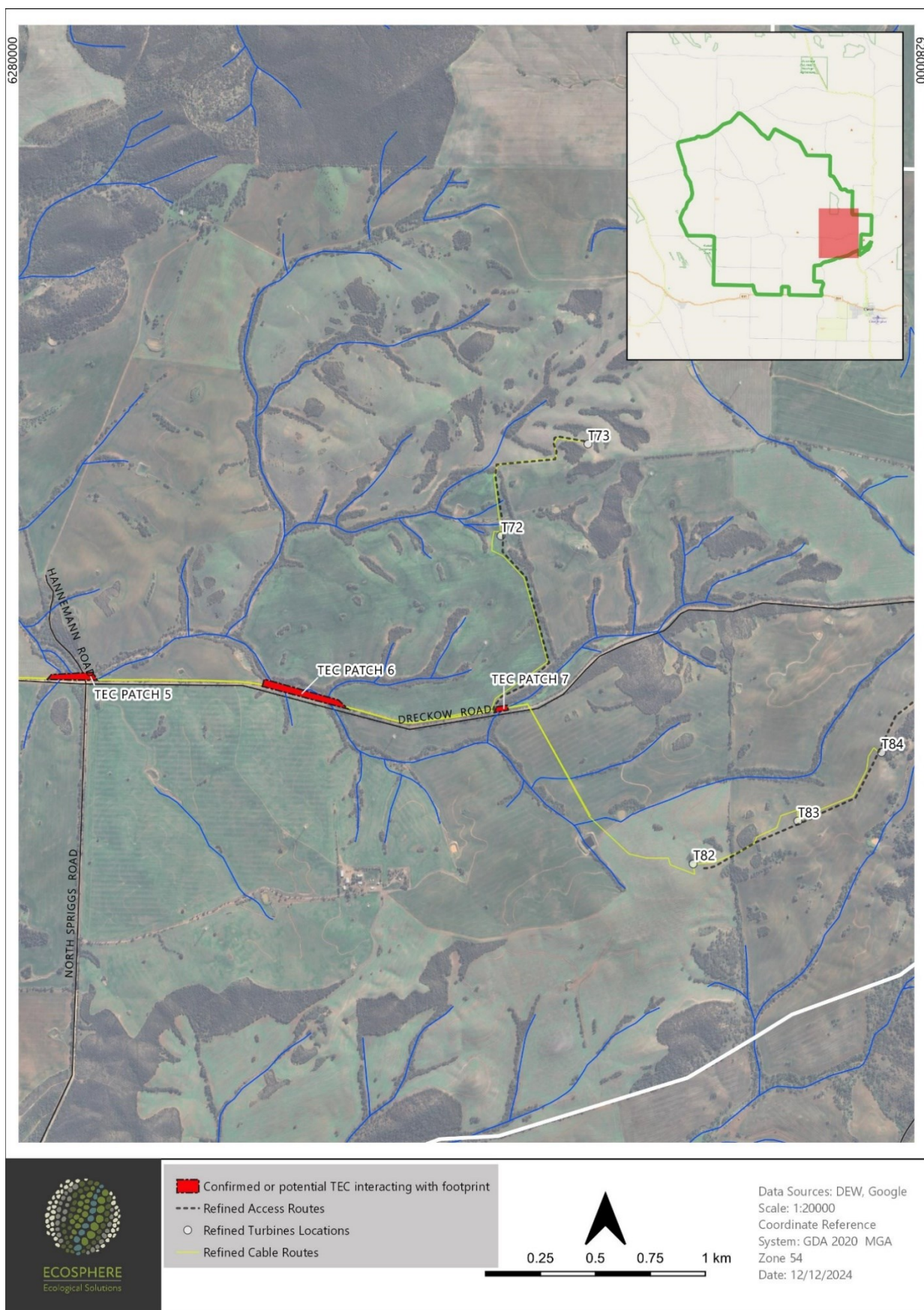


Figure 15. Locations of EPBGW TEC communities patches 5, 6 and 7.

6.4 Threatened Flora

Three threatened flora species were recorded during the targeted survey on the refined layout.

Daviesia pectinata (Zig-zag Bitter-pea, NPW: R - Figure 16), was recorded within the Syvertson Road reserve as scattered individuals however were not interacting directly with the CWF footprint. The individuals observed were in poor condition and likely to be some of the last fragments in the area. Some management of the individuals location may be required during construction phases to manage indirect impacts such as dust accumulation.



Figure 16. *Daviesia pectinata* (Zig Zag Bitter pea) present as poor condition individuals within road reserves.

Eucalyptus cretata (Darke Peak Mallee, NPW: R - Figure 17) was recorded throughout the Project area during survey and areas were highlighted as a limiting factor for micro-siting and refinement of the layout. This species was prevalent in road reserves and remnant areas and far too prolific to map accurately. The targeted survey aimed to provide refinements to the layout to avoid any interaction with this species.



Figure 17. *Eucalyptus cretata* (Darke Peak Mallee) within Project area.

Sarcozona bicarinata (Ridged Noon Flower, NPW: V) was recorded within road reserve areas as a scattered understorey species. This species has no historical records within the Study area despite being relatively well dispersed and moderately frequent. Considered very rare in South Australia the lack of records may be due to its close affinity with other *Sarcozona* and *Carpobrotus* (pigface) species. When in flower as was the case during the targeted spring survey it is given certainty through the distinct ridged (carinate) fruits as shown below in the specimen photographed within the CWF Project area (Figure 18). See Figure 21 for the locations of this and other threatened flora species recorded within the Project area.

Orchids were recorded prolifically throughout many of the road reserves within the Project area. No species recorded were of conservation significance however and species of the genera *Caladenia* and *Thelymitra* (Figure 19) were most frequent as well as *Pterostylis* and *Prasophyllum*. The presence of conservation significant species is likely within larger, more intact areas of the Project area which have been avoided as part of the planning process.



Figure 18. *Sarcozona bicarinata* (Ridged Noon flower) in CWF Project area



Figure 19. Two orchid species recorded during targeted surveys, *Caladenia septuosa* and *Thelymitra megcalyptra*

6.5 Threatened Fauna

Two Diamond Firetail (*Stagonopleura guttata* – EPBC VU, NPW: V) were observed within the Project area during the targeted spring assessment (Figure 20). Habitat is present throughout the project site, and it is expected that this area is a key area for Diamond Firetail given the presence of open modified woodlands and grass lands in degraded creeks and hillslopes. See Figure 21 for locations of the observations made.



Figure 20. Diamond Firetail (*Stagonopleura guttata*) within CWF Project area.

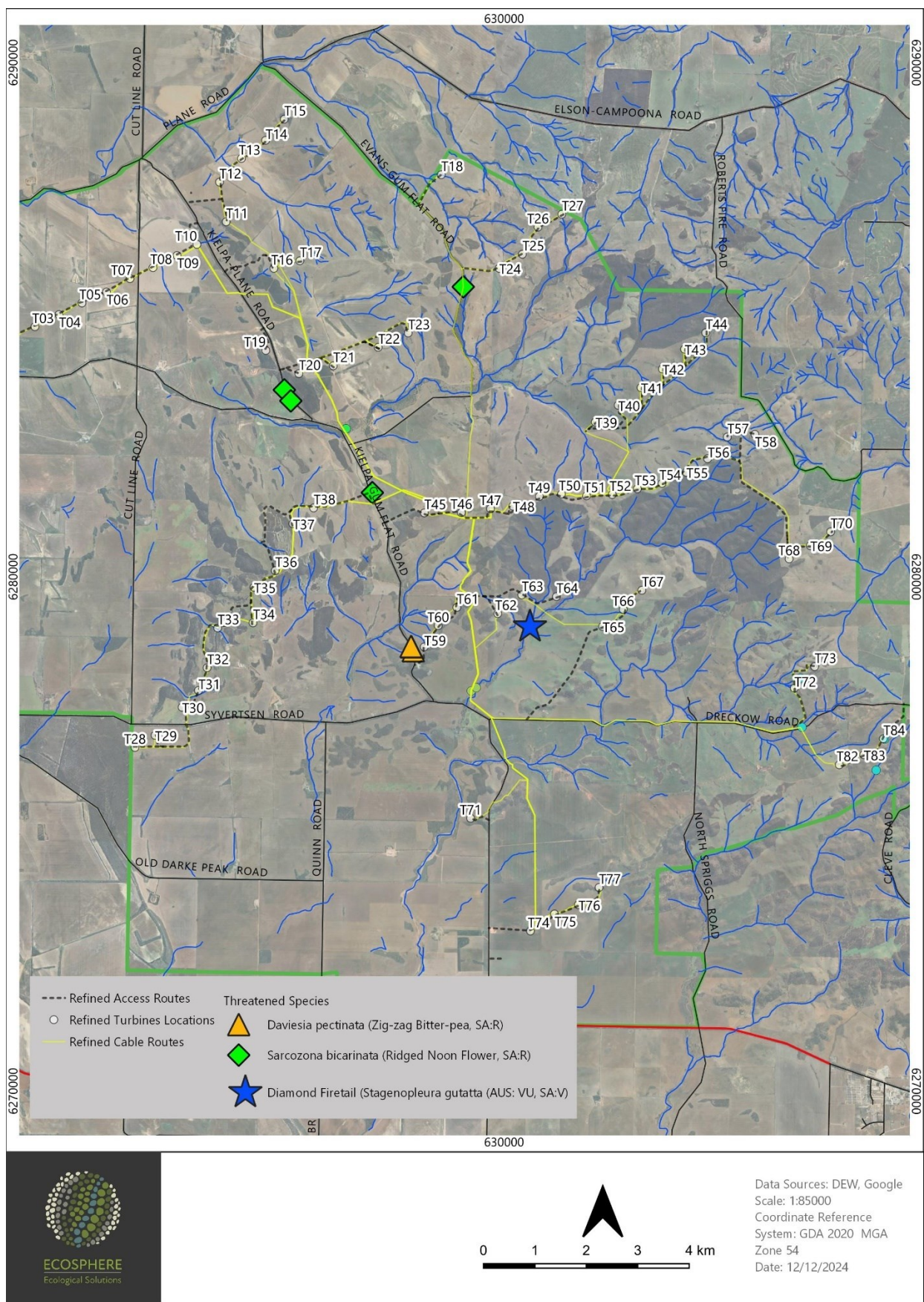


Figure 21. Locations of threatened flora and fauna species observed within the CWF Project area.

6.6 Avian Survey

Thirty-nine avian species (27 indigenous and 2 exotic) were recorded across 19 locations (Figure 22) during bird point counts throughout the Project area during the March survey. Species recorded were largely consistent with species expected in open and fragmented communities degraded through grazing and weed invasion. Species likely to utilise rotor sweep heights are listed below (Table 9) and are typical for South Australian agricultural environments. No large raptor nests were recorded during surveys to the site however are likely to occur within larger remnant patches of vegetation out of line of sight from adjoining cleared areas. The density of the remnant patches makes moving through these areas limiting and therefore there may need to be assumptions that these occur and the potential for rotor strikes in risk assessments made on these assumptions of presence. See Appendix 1 for all avian survey results.

Further avian utilisation assessments may be required to determine the utilisation times for these species within rotor sweep heights, however given this, baseline surveys suggest a low density of raptors and other species with soaring or gliding flight behaviours at these heights.

6.6.1 Malleefowl

There is one historical record for Mallee Fowl within the Project area recorded in 1973. The area around the record was searched with a grid for any sign of this species such as existing or old nest mounds, tracks or feathers. No evidence of this species persisting in this area was observed and based on the targeted survey for this species, the level of fragmentation and lack of significant litter and lack of any other records within the past 45 years within the Project area meant that it was considered unlikely that individuals persist within the Project area or surrounding reserves.

Table 9. Avian species recorded within the CWF Project area and likelihood to utilise rotor sweep heights.

Exotic	Scientific Name	Common Name	EPBC Act	NPW Act	Utilises rotor sweep height
	<i>Acanthagenys rufogularis</i>	Spiny-cheeked Honeyeater	-	-	-
	<i>Acanthiza apicalis</i>	Inland Thornbill	-	-	-
	<i>Acanthiza chrysorrhoa</i>	Yellow-rumped Thornbill	-	-	-
	<i>Anthochaera carunculata</i>	Red Wattlebird	-	-	-
	<i>Anthus australis</i>	Australian Pipit	-	-	Possible
	<i>Aquila audax audax</i>	Wedge-tailed Eagle	-	-	Yes
	<i>Artamus cyanopterus</i>	Dusky Woodswallow	-	-	Possible
	<i>Barnardius zonarius</i>	Australian Ringneck	-	-	Yes
	<i>Cincloramphus cruralis</i>	Brown Songlark	-	-	Yes
	<i>Colluricincla harmonica</i>	Grey Shrike-thrush	-	-	-
	<i>Coracina novaehollandiae</i>	Black-faced Cuckooshrike	-	-	-
	<i>Corvus coronoides</i>	Australian Raven	-	-	Yes

Exotic	Scientific Name	Common Name	EPBC Act	NPW Act	Utilises rotor sweep height
	<i>Corvus mellori</i>	Little Raven	-	-	Yes
	<i>Coturnix sp.</i>	Quails	-	-	-
	<i>Cracticus torquatus leucopterus</i>	Grey Butcherbird	-	-	-
	<i>Drymodes brunneopygia</i>	Southern Scrub Robin	-	-	-
	<i>Elanus axillaris</i>	Black-shouldered Kite	-	-	Yes
	<i>Eolophus roseicapilla</i>	Galah	-	-	Yes
	<i>Falco cenchroides cenchroides</i>	Nankeen Kestrel	-	-	Yes
	<i>Falco longipennis</i>	Australian Hobby	-	-	Yes
	<i>Gavicalis virescens</i>	Singing Honeyeater	-	-	-
	<i>Grallina cyanoleuca cyanoleuca</i>	Magpielark	-	-	-
	<i>Gymnorhina tibicen</i>	Australian Magpie	-	-	Yes
	<i>Lichenostomus cratitius</i>	Purple-gaped Honeyeater	-	R	-
	<i>Manorina flavigula</i>	Yellow-throated Miner	-	-	-
	<i>Manorina melanocephala</i>	Noisy Miner	-	-	-
	<i>Melithreptus brevirostris</i>	Brown-headed Honeyeater	-	-	-
	<i>Ocyphaps lophotes lophotes</i>	Crested Pigeon	-	-	-
	<i>Pachycephala fuliginosa fuliginosa</i>	Western Whistler	-	-	-
	<i>Pachycephala rufiventris rufiventris</i>	Rufous Whistler	-	-	-
	<i>Pardalotus punctatus</i>	Spotted Pardalote	-	-	-
	<i>Pardalotus striatus</i>	Striated Pardalote	-	-	-
*	<i>Passer domesticus domesticus</i>	House Sparrow	-	-	-
	<i>Phaps chalcoptera</i>	Common Bronzewing	-	-	-
	<i>Pomatostomus superciliosus</i>	White-browed Babbler	-	-	-
	<i>Rhipidura leucophrys leucophrys</i>	Willie Wagtail	-	-	-
	<i>Smicrornis brevirostris</i>	Weebill	-	-	-
	<i>Stagonopleura guttata</i>	Diamond Firetail	VU	V	-
*	<i>Sturnus vulgaris vulgaris</i>	Common Starling	-	-	Yes
	<i>Zosterops lateralis</i>	Silveryeye	-	-	-

6.7 Bat Surveys

No bat specific surveys were undertaken as part of baseline surveys and the BDBSA identified only three species as occurring within 50 km of the site. No species were highlighted as part of the EPBC PMST indicating a lack of conservation significant bat species records in the region. This may be due to lack of survey effort however and further studies to rule out the presence of conservation significant bat species and densities of other bat species will be undertaken as follow up surveys.

There are no known caves within the Project area or surrounds and therefore bat species are likely to be limited to those that seek shelter in tree hollows or under bark, old ruins etc.

Table 10. BDBSA records for bat species within 50km of the Project area.

Species Name	Common Name	EPBC Act	NPW Act
<i>Austronomus australis</i>	White-striped Free-tailed Bat	-	-
<i>Chalinolobus gouldii</i>	Gould's Wattled Bat	-	-
<i>Nyctophilus geoffroyi</i>	Lesser Long-eared Bat	-	-

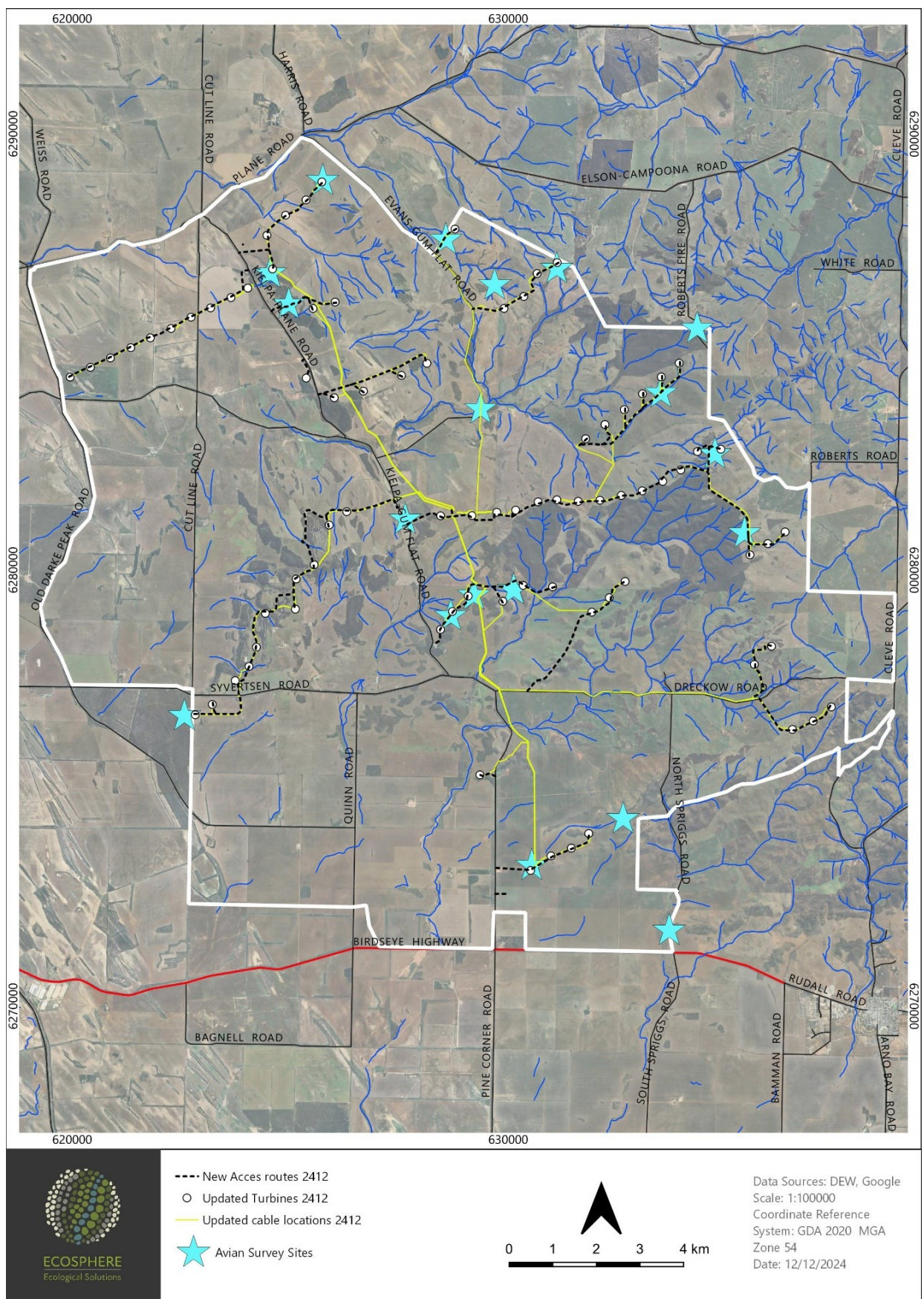


Figure 22. Locations of Avian survey sites

6.8 Exotic Species

6.8.1 Declared Weeds

Declared plants are weeds that are regulated under the *Landscape South Australia Act 2019* due to their threat to primary industry, the natural environment and public safety. Eight declared weed species had historical records from the NatureMaps BDBSA search within the Study area. A further three Weeds of National Significance (**bold**) were identified by the BDBSA or during previous ecological surveys across the wider area.

- ***Asparagus asparagoides* (Bridal Creeper)**
- *Cenchrus setaceus* (Fountain Grass)
- *Chondrilla juncea* (Skeleton Weed)
- *Echium plantagineum* (Salvation Jane)
- *Gazania linearis* (Gazania)
- ***Lycium ferocissimum* (African Boxthorn)**
- *Marrubium vulgare* (Horehound)
- ***Solanum elaeagnifolium* (Silver-leaf Nightshade)**

Two WONs were identified during the field surveys, *Asparagus asparagoides* (Bridal Creeper) and *Lycium ferocissimum* (African Boxthorn), and one declared weed, *Marrubium vulgare* (Horehound). None of the species recorded were considered a significant concern from a project perspective whereby specific management is required outside of weed hygiene principles applied to construction sites in agricultural areas generally. These include:

- Identification of significant weed outbreaks prior to construction being identified through engagement with stakeholders such as landowners
- Application of exclusion zones for any known outbreaks and management to ensure no weeds spread from known location
- Wash down areas and hygiene stations for machinery moving across the project site

As the district is farmed at an intensive broadacre scale and the grain product is valued on seed cleanliness, outbreaks are generally controlled. A weed regarded significant locally was *Tribulus terrestris* (Caltrop) with local farmers expressing a concern for this weed and ensuring vehicle hygiene measures were implemented before entering site.

6.8.2 Exotic Fauna

Nine exotic fauna species had historical records from the NatureMaps BDBSA search within the Study area.

Five mammal species:

- Cattle (European Cattle) (*Bos taurus*)
- Dingo (*Canis lupus dingo*)
- House Mouse (*Mus musculus*)
- Rabbit (European Rabbit) (*Oryctolagus cuniculus*)
- Fox (Red Fox) (*Vulpes vulpes*)

And four of bird species:

- House Sparrow (*Passer domesticus domesticus*)
- Spotted Dove (*Spilopelia chinensis*)
- Common Starling (*Sturnus vulgaris vulgaris*)
- Common Blackbird (*Turdus merula merula*)

Two exotic bird species were identified during field surveys, House Sparrow (*Passer domesticus domesticus*) and Common Starling (*Sturnus vulgaris vulgaris*). One Red Fox (*Vulpes vulpes*) was sighted and several Rabbits (*Oryctolagus cuniculus*) including active warrens were present at several locations within the Project area.

7 Project Interaction with Ecological Values

7.1 Baseline Survey

The initial baseline survey assessed the general Project area and a provisional layout in which each Wind Turbine Generator (WTG/WTG's) position, and road access were surveyed for potential impacts to native vegetation. While some WTG's and stringlines were in clear open paddocks with no impact, others were located either close to, or in larger patches of vegetation, with some located in vegetation of high ecological value. The position of many WTG's could potentially be altered only marginally to avoid any impact on vegetation; however, some will need to be completely relocated to avoid clearance of areas of high ecological value or threatened vegetation species.

7.2 Targeted Survey

Following refinement of the project layout, the access and cable routes have been further modified with the mitigation hierarchy in mind to avoid minimise and mitigate. This most recent refinement addresses avoidance of interaction with areas of high ecological value, threatened species observations and intact vegetation areas where possible. The resulting layout interacts predominantly with vegetation of lower value, quantified using the bushland assessment method and checked for threatened flora species presence and critical habitat for threatened fauna. Areas remaining that interacts with TEC's may require additional thought on achieving connection of transmission lines or slight additional modification of the layout. The figures below show the refined layout.

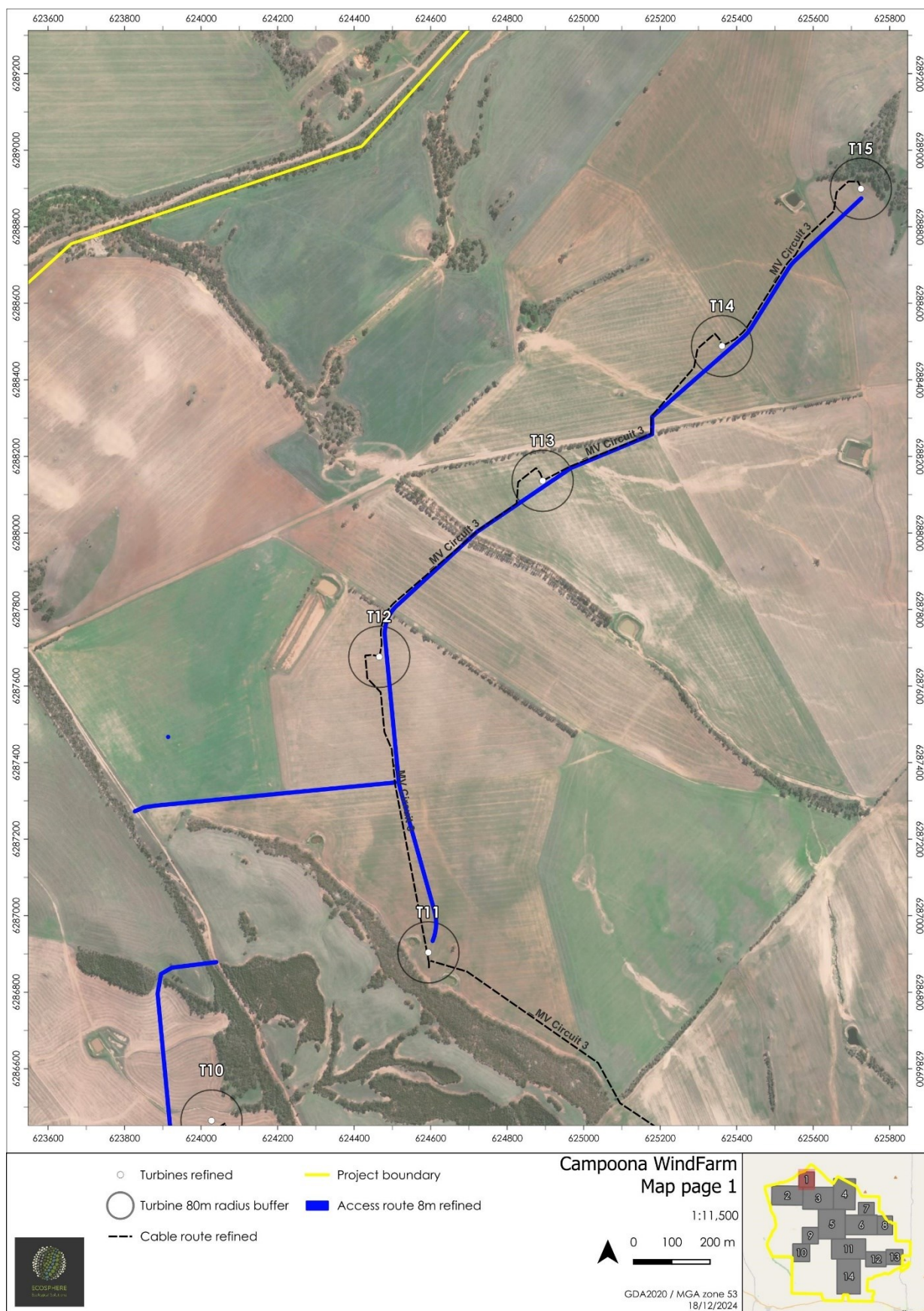


Figure 23. Map 1 of 14

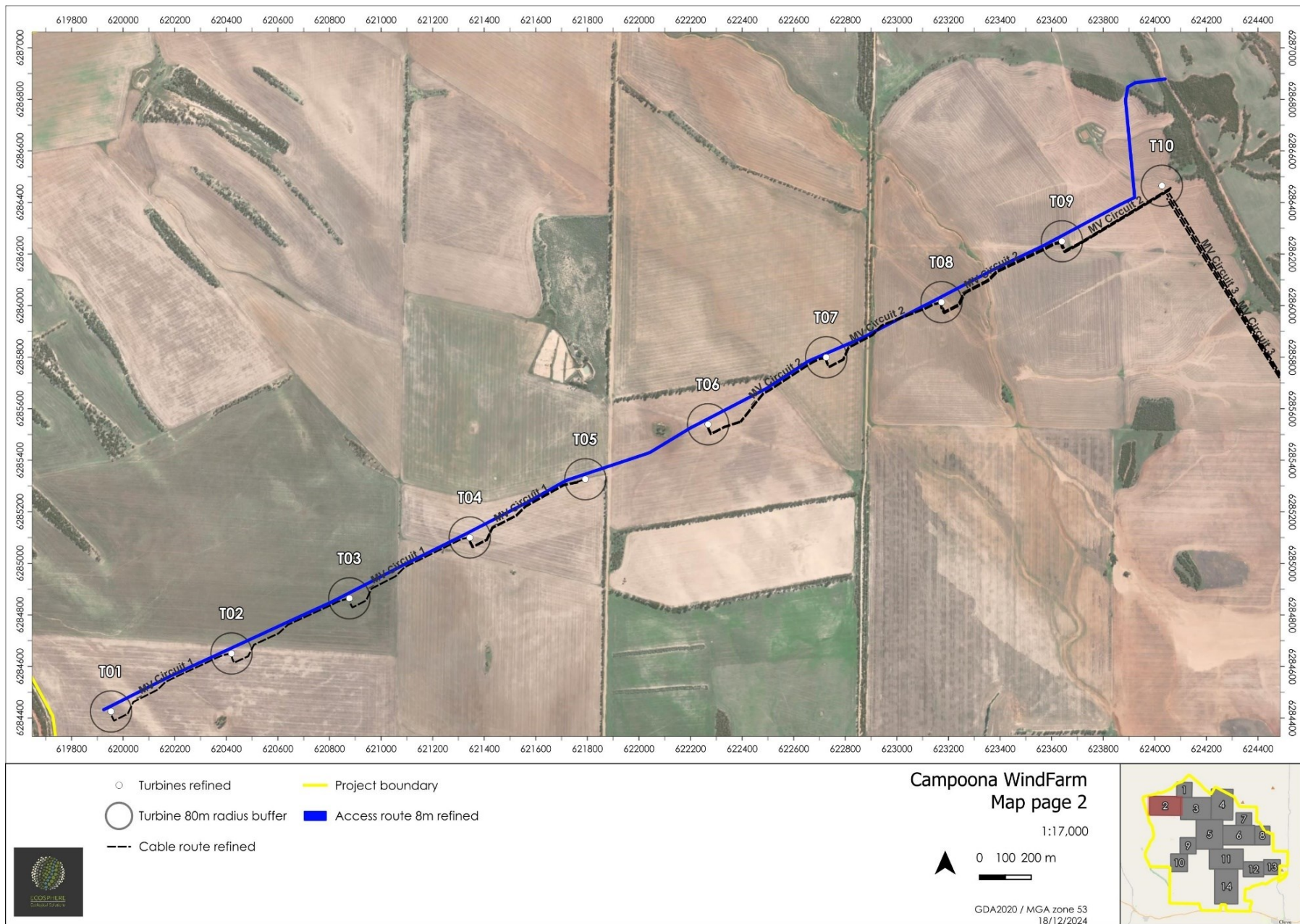


Figure 24. Map 2 of 14

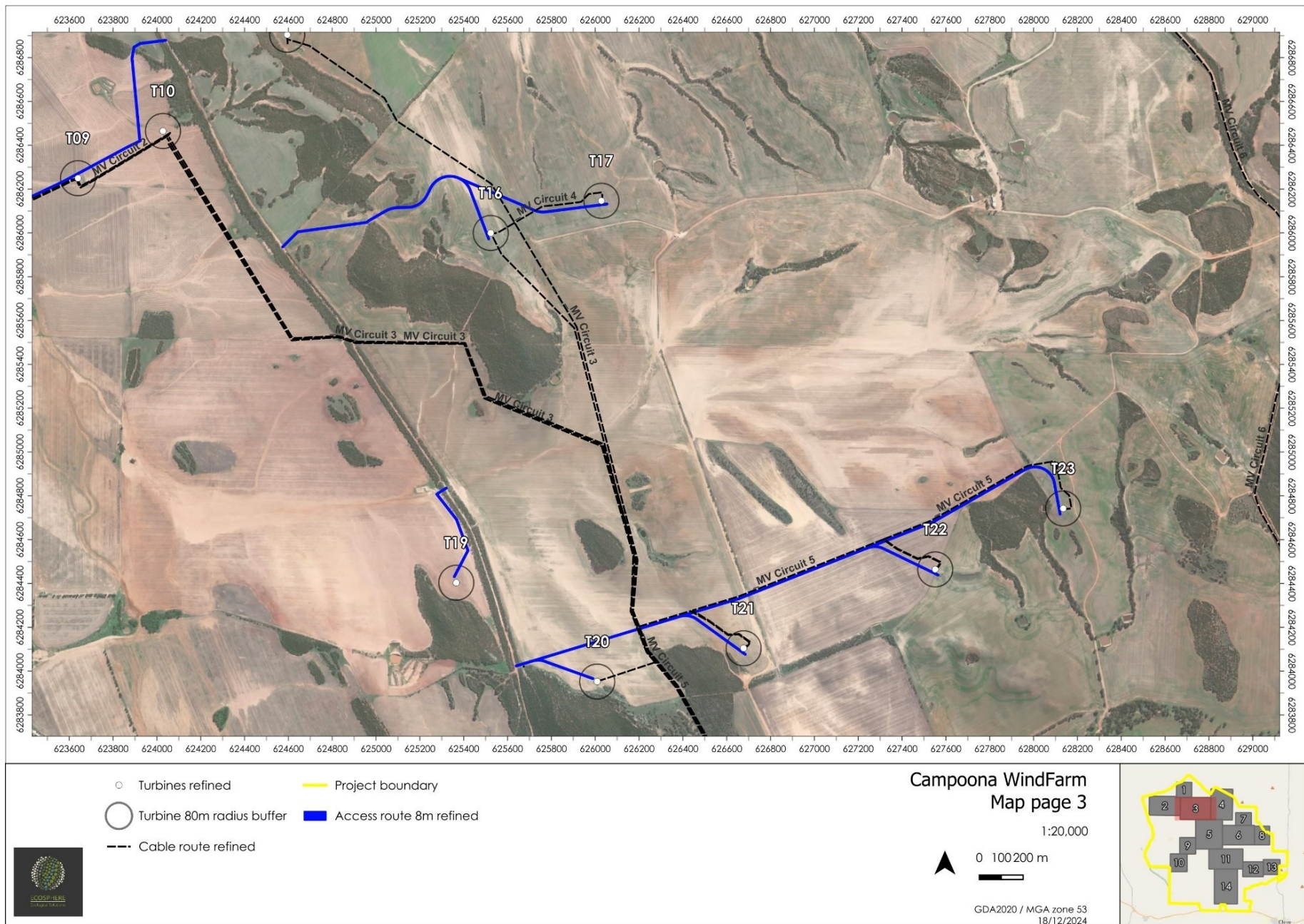


Figure 25. Map 3 of 14

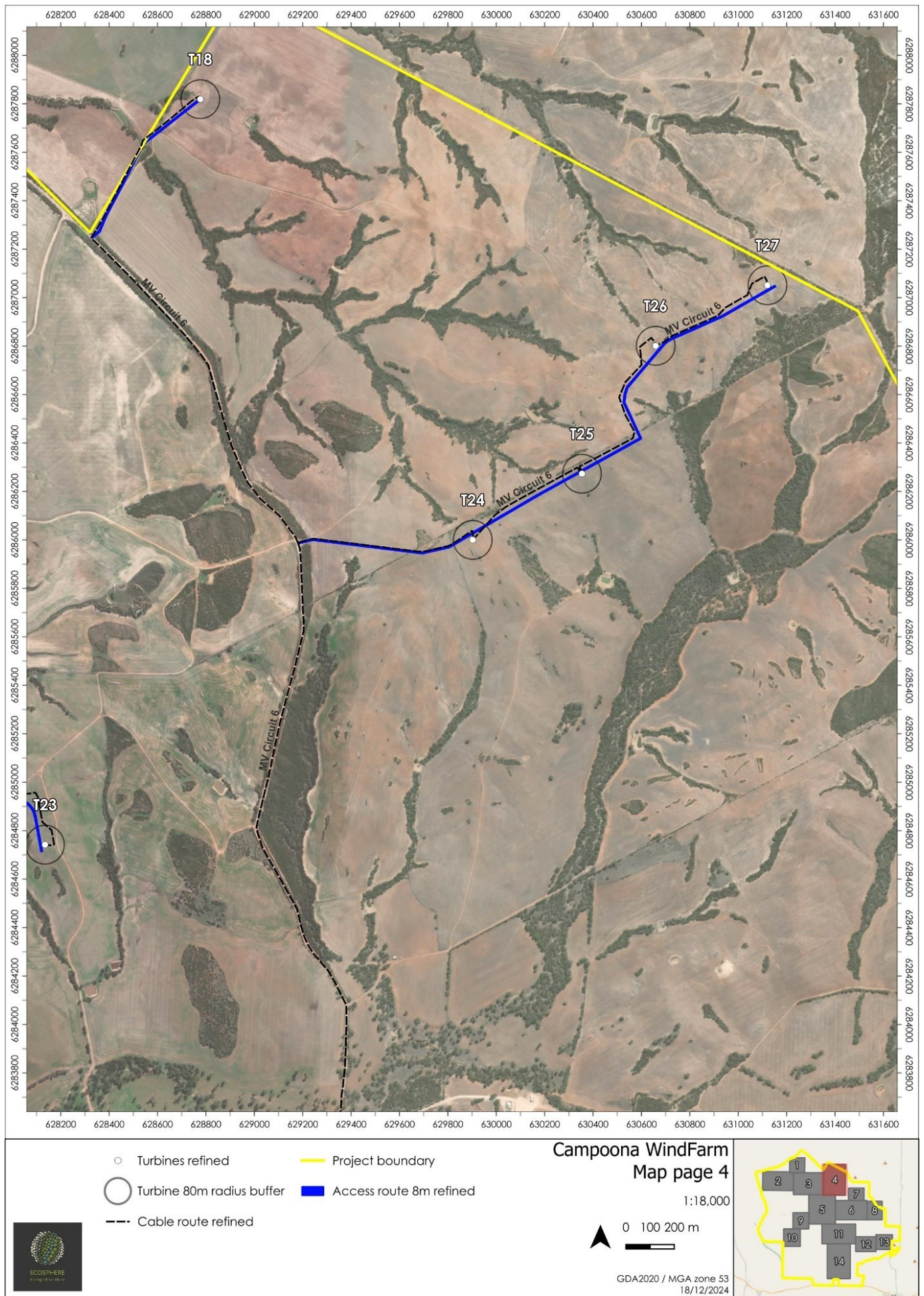


Figure 26. Map 4 of 14



Figure 27. Map 5 of 14

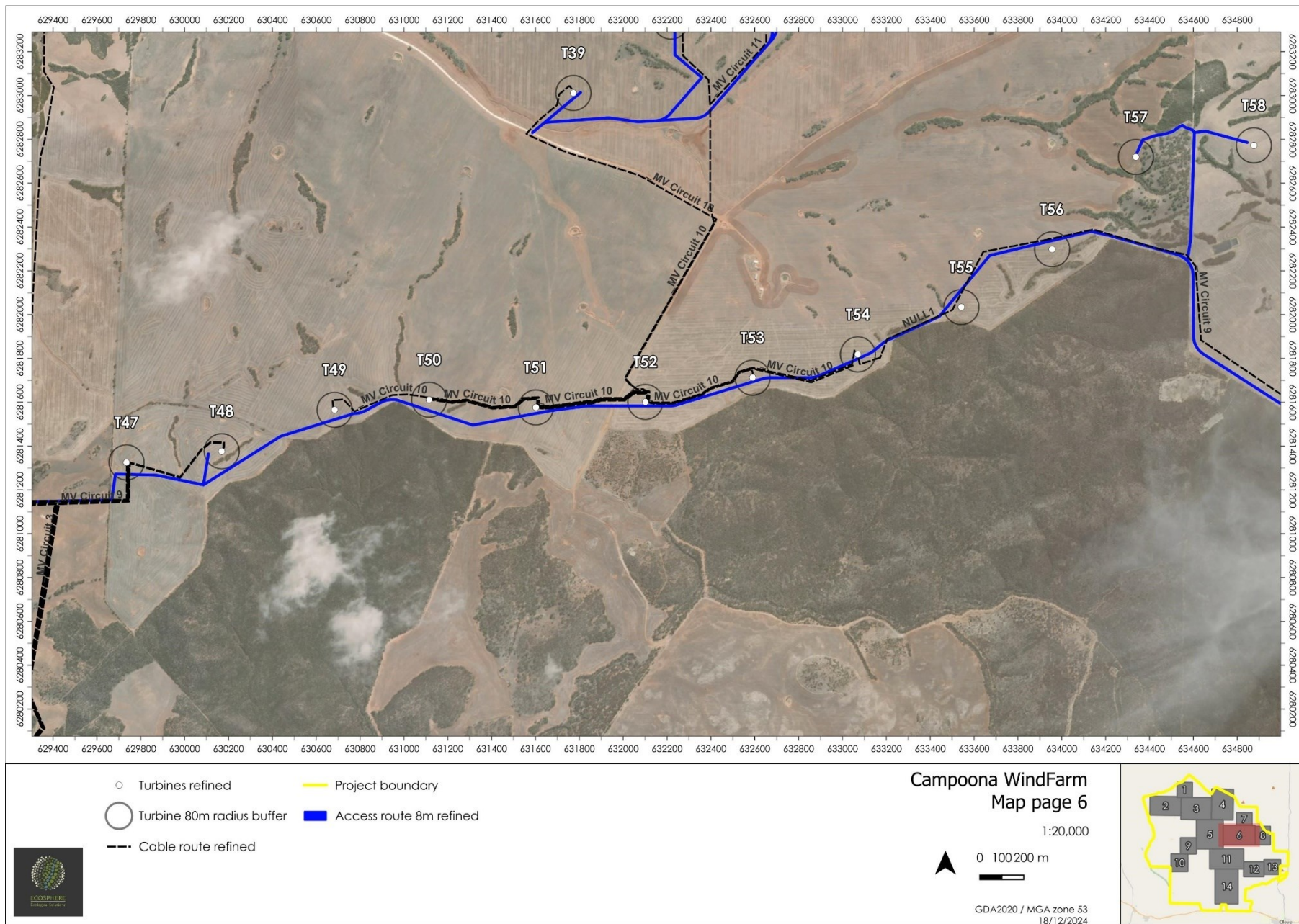


Figure 28. Map 6 of 14

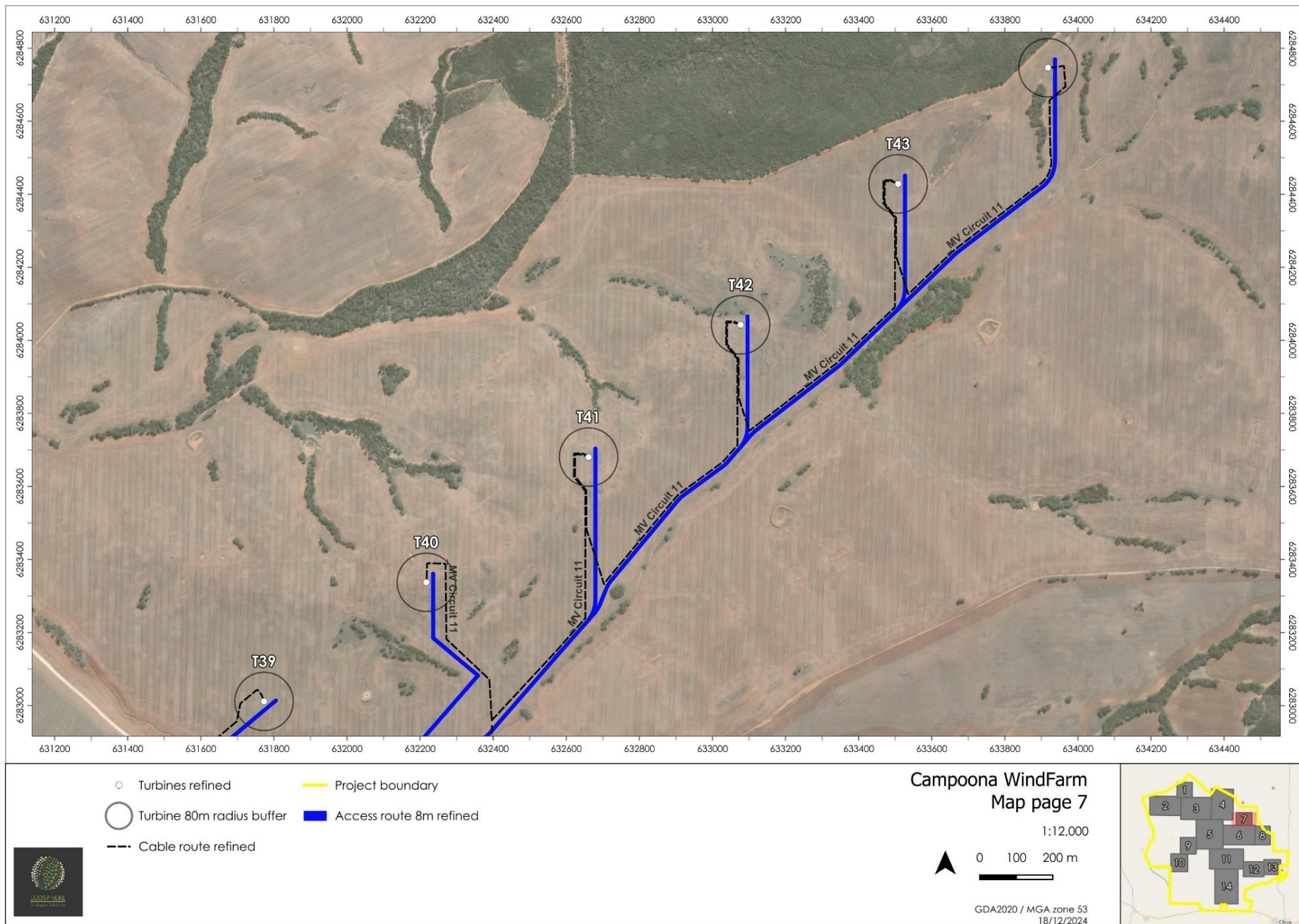


Figure 29. Map 7 of 14



Figure 30. Map 8 of 14



Figure 31. Map 9 of 14



Figure 32. Map 10 of 14

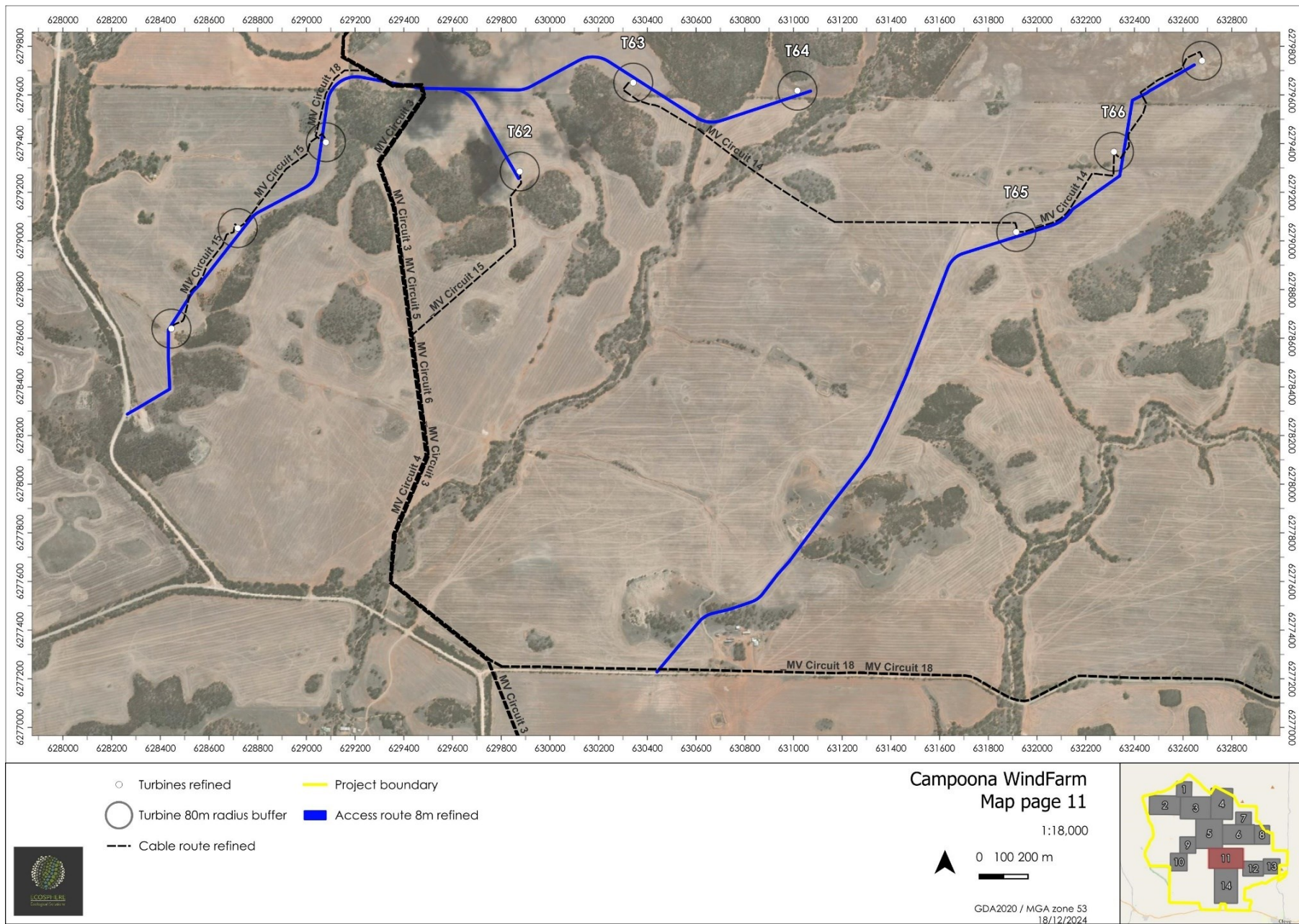


Figure 33. Map 11 of 14



Figure 34. Map 12 of 14

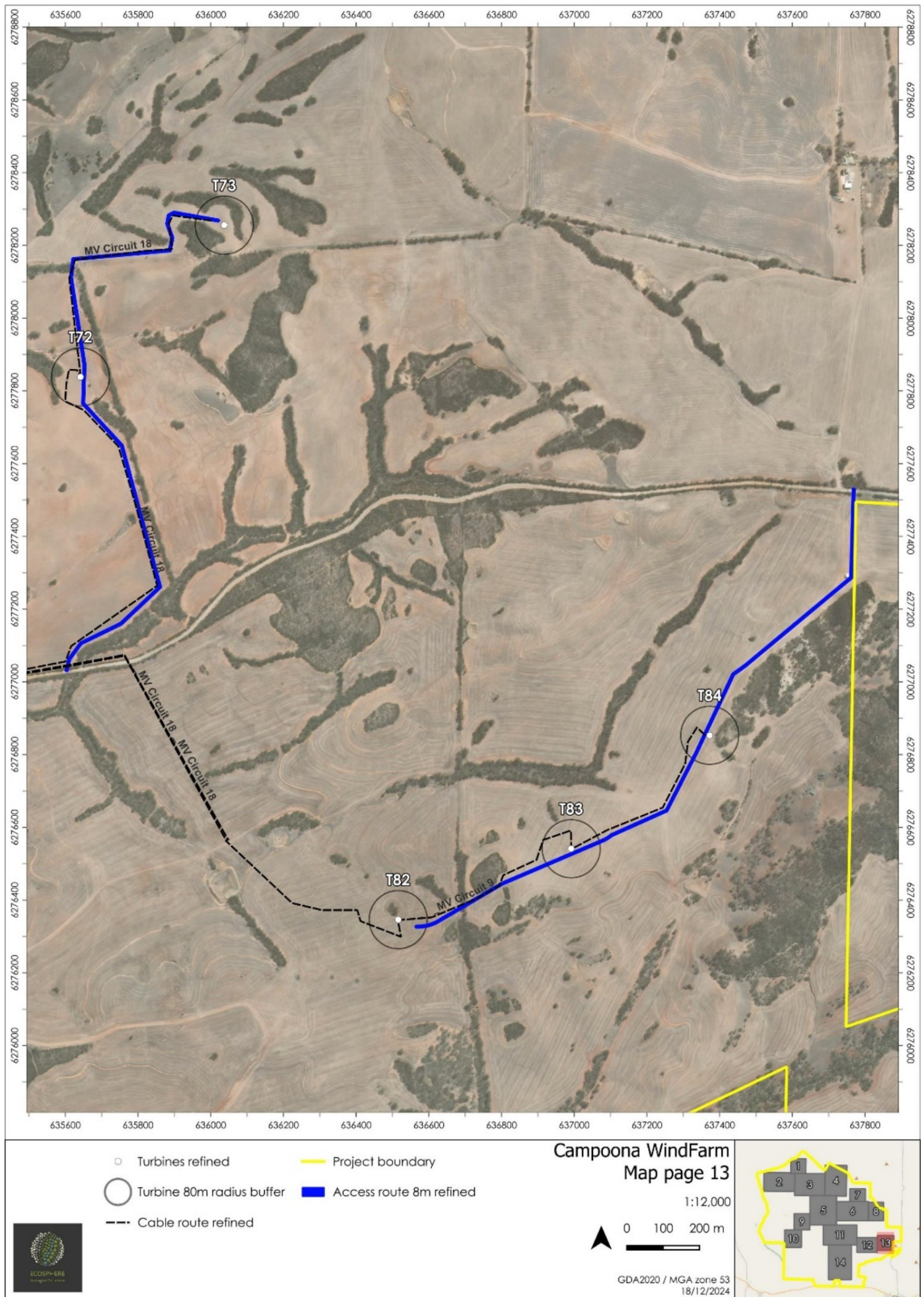


Figure 35. Map 13 of 14

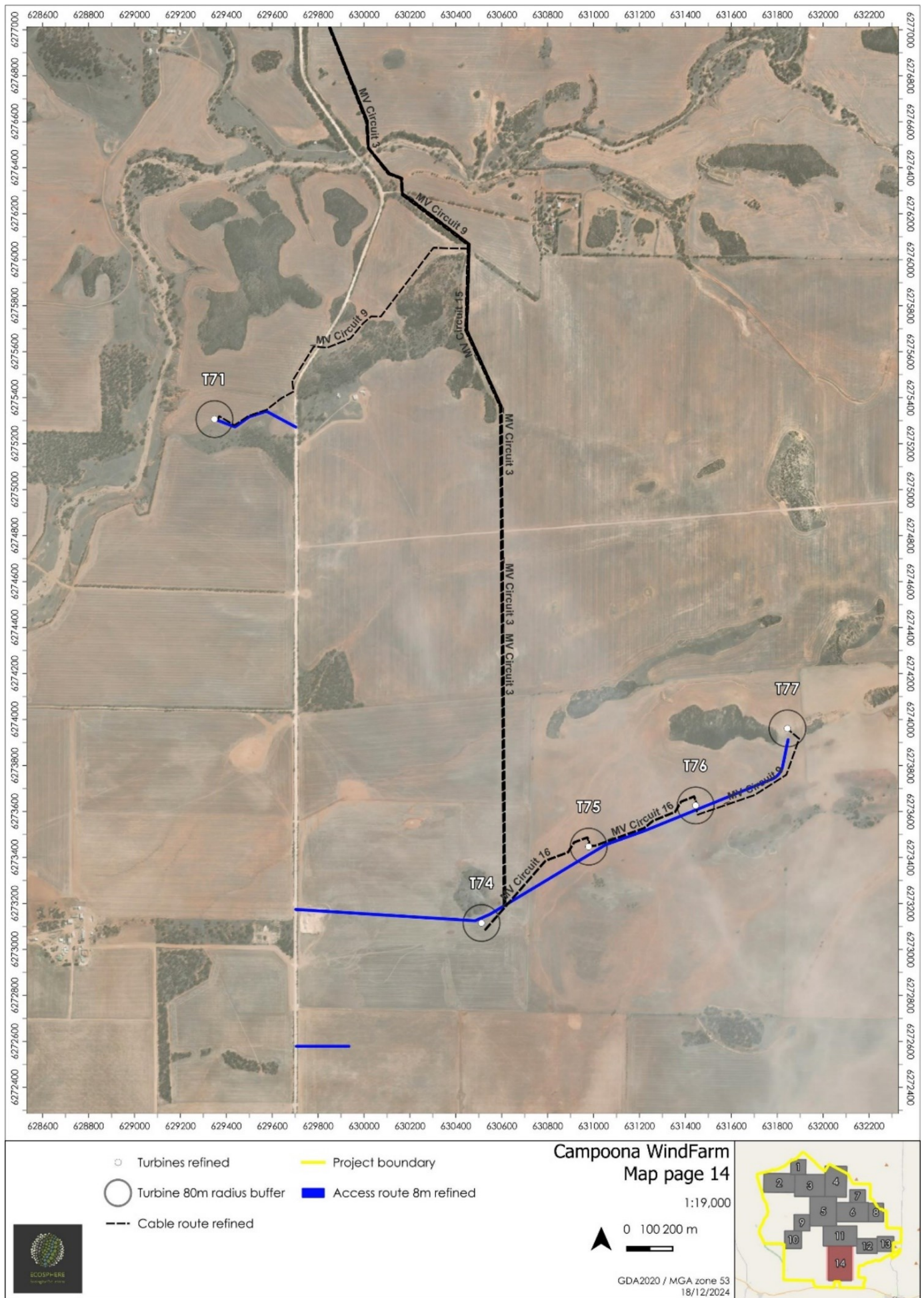


Figure 36. Map 14 of 14

8 Assessment of Significance

Assessments of Significance (AoS) for EPBC Act listed entities known or likely to occur within the Project area include the Diamond Firetail (*Stagonopleura guttata*) and the Eyre Peninsula Blue Gum (*Eucalyptus petiolaris*) Woodland Threatened Ecological Community.

8.1 Threatened Ecological Communities

One EPBC Act listed TEC was recorded within the Project area, Eyre Peninsula Blue Gum (*Eucalyptus petiolaris*) Woodland (EPBGW). This TEC was located in eight separate patches throughout the CWF Project area.

An action is likely to have a significant impact on a critically endangered or endangered ecological community if there is a real chance or possibility that it will:

1. Reduce the extent of an ecological community:

The EPBGW has undergone significant historical clearance throughout the Eyre Peninsula. What patches remain are highly disturbed, generally lacking significant understorey due to grazing pressures from livestock, introduced fauna (rabbits) and an overabundance of native fauna (kangaroos). The locations of the WTGs and associated cable and access routes have been micro-sited to avoid further clearance of this TEC within the CWF Project area, and thus will not further reduce the extent on this ecological community.

2. Fragment or increase fragmentation of an ecological community, for example by clearing vegetation for roads or transmission lines:

The TEC is already highly fragmented in the greater area due to clearance for dryland agriculture and grazing, and the patches are not prime examples of this community. The re-alignment of the WTGs, cable routes and access routes to areas of existing clearance will therefore not fragment this community further.

3. Adversely affect habitat critical to the survival of an ecological community:

By avoiding the extent of the community then no impact can occur to the habitat. The primary risk to sustainability of the community is changes in hydrology. Cutting new tracks or impacting the flow of surface and sub surface water is likely to impact the community. Use of existing tracks is not likely to adversely impact habitat.

4. Modify or destroy abiotic (non-living) factors (such as water, nutrients, or soil) necessary for an ecological community's survival, including reduction of groundwater levels, or substantial alteration of surface water drainage patterns:

The remnant patches of this TEC are located in drainage lines in paddocks used for dryland cropping, or in road reserves. The surrounding area has previously been highly modified due to farming practices or altered surface water drainage patterns due to run-off from the existing roads. The CWF will not further impact upon the TEC beyond the current existing levels.

5. Cause a substantial change in the species composition of an occurrence of an ecological community, including causing a decline or loss of functionally important species, for example through regular burning or flora or fauna harvesting:

The patches of this TEC throughout the CFW Project area have been altered due to grazing from livestock, introduced fauna and native fauna, leading to many of the understorey species making up this TEC to be absent. Highly palatable species are favoured by rabbits, and with the patches being unfenced, livestock such as sheep cause grazing pressure and disturbance to the surface layer. It is unlikely the CWF will cause a substantial change in the species composition or occurrence beyond what has historically occurred.

6. Cause a substantial reduction in the quality or integrity of an occurrence of an ecological community, including but not limited to:

- **Assisting invasive species, that are harmful to the listed ecological community, to become established, or**
- **Causing regular mobilisation of fertilisers, herbicides or other chemicals or pollutants into the ecological community which kill or inhibit the growth of species in the ecological community, or**

Invasive species known in the wider area include rabbits and domestic livestock that have contributed to habitat degradation through over grazing which can remove the shrub layer and assist in the dispersal of exotic plant seeds. With some of the TEC patches located in a shallow drainage lines in paddocks used for cropping, there is a possibility of pollutants used by agriculture to drain into these areas, similarly with patches located in road reserves. With micro-siting to avoid clearance, the CWF is unlikely to change the current drainage patterns and increase agriculture related runoff.

7. Interfere with the recovery of an ecological community:

The vegetation in this community is highly fragmented, have edge effects from farming and are located in highly disturbed areas, with grazing from introduced species such as rabbits and domestic livestock. The patches are unfenced, and any emergent vegetation will be unprotected from further grazing pressures. The CWF is unlikely to interfere with the recovery of this ecological community.

8.2 Migratory Species

Eleven migratory species listed under the EPBC Act were highlighted as potentially present within the Study area. Of these five were rare vagrants and not further considered in this assessment. Six species were waders and unlikely to utilise the Project area considering the lack of wetland or saltmarsh habitats that support many migratory species.

These species breed in wetland environments in the northern hemisphere during the northern summer, before migrating south to Australia and other locations over winter (Australian summer). As part of the annual migration, shorebirds tend to aggregate at significant coastal wetland and intertidal sites across Australia. Within South Australia the main feeding grounds for these species are in the Adelaide International Bird Sanctuary and Northern Gulf St Vincent.

The Project area is located approximately 193 km to the west from the Adelaide International Bird Sanctuary, an important rest and feeding stop for migratory birds, which is at the southern end of the East-Australasian Flyway (EAAF). The EAAF is a route that migratory birds traverse on an annual basis. It is especially important for the millions of migratory waders or shorebirds that breed in northern Asia and Alaska and spend the non-breeding season in South-East Asia and Australasia.

Waders departing feeding grounds for migration climb steeply to high altitude just after take-off. Several studies focussing on various shorebird/wader species confirm many species fly anywhere between 2000m and 5000m above sea level during migratory flights.

The height of each WTG (including blade length) is 250m and the highest elevation for the Project area is 395mAHD. With the combined height of the highest elevation and WTG being 645mAHD, this falls well below the altitudes that migratory birds have been recorded flying. This factor, in conjunction with the distance of the CWF location and direction (west) from the nearest habitat for migratory birds (migratory birds are travelling in north-south directions) and how quickly they gain altitude after take-off, this project is unlikely to pose a significant impact upon migratory species.

8.3 Threatened Species

Diamond Firetail (*Stagonopleura guttata*) are listed as Vulnerable under the EPBC Act. There are records for Diamond Firetail 3 km north-east of the north-east boundary of the Project area, and this species was observed during the October survey.

All populations of Diamond Firetail are considered important populations when considering impacts to the species based on the criterion listed below. Therefore, the populations must be considered for significant impact assessments, environmental impact assessments and EPBC referral.

8.3.1 Significant Impact Criteria for Vulnerable Species: Diamond Firetail (*Stagonopleura guttata*)

In accordance with the Significant Impact Assessment Guidelines, an action is likely to have a significant impact on a vulnerable species if there is a real chance or possibility that it will:

1. Lead to a long-term decrease in the size of an important population of a species:

Diamond Firetail was listed as Vulnerable under the EPBC Act in March 2023 due to continued population decline (DCCEEW, 2023d). Key threats to the species relate to habitat loss through clearance for agriculture, the replacement of native perennial grasses with exotic annual grasses, and overgrazing by domestic livestock, rabbits, and overabundant kangaroo populations. Diamond Firetail were recorded in the Project area during the October field survey.

The Diamond Firetail is a granivorous species, foraging largely in grass cover and almost exclusively at ground level (Antos and Bennett 2006, DCCEEW, 2023d). The species is therefore susceptible to disturbances in the ground-layer. Invasive weeds, changes in grazing regimes and changes in grass and forb communities can all impact their food supply (Hodder et al 2018). The project is unlikely to cause a change in grass species composition or restrict the availability of perennial grass seed as foraging material given that the project layout has been realigned to minimise the clearance of vegetation of higher ecological value, including habitat suitable for threatened species. In particular, areas with low density of trees and shrubs, a high cover of native herbs, and fallen timber on the ground will be avoided during micro siting. The blade sweep arc is also unlikely to interfere with ground foraging species. Therefore, the CWF project is unlikely to lead to a long-term decrease in the population size of the species.

2. Reduce the area of occupancy of an important population:

Diamond Firetail occur on the south-east of mainland Australia, and in South Australia have three isolated subpopulations (Eyre Peninsula, My Lofty to Southern Flinders Ranges, and the south-east) (DCCEEW, 2023d). The species occurs in eucalypt, acacia or casuarina woodlands, open forests, and other lightly timbered habitats, including farmland and grassland with scattered trees. The removal of vegetation within the Project area is unlikely to significantly reduce the area of occupancy for the species, given micro siting will be implemented to ensure areas of suitable habitat for the species area avoided. Importantly, sites requiring clearance lack the quantity of native grasses required for species foraging.

3. Fragment an existing important population into two or more populations:

Diamond Firetails appear to be sedentary, though some populations move locally (DCCEEW, 2023d). Diamond Firetail were observed within the Project area during the October survey however, there are no historical records for the species within the CWF Project area. Suitable habitat is present within the Project area and the species is considered likely to move through the area as resources become available. Realignment of the project footprint has been recommended to avoid fragmentation of suitable habitat. Areas proposed for clearance consist predominantly of areas historically cleared for agricultural cropping and livestock grazing or areas of low habitat suitability. Therefore, it is unlikely that clearance of habitat within the CWF Project area will cause fragmentation of an existing population.

4. Adversely affect habitat critical to the survival of the species:

Habitat critical to the survival of Diamond Firetail includes areas of relatively low tree density, few large logs and little litter cover but high grass cover of native perennial grasses for foraging, roosting, and breeding. The areas of proposed clearance have a low cover of native grasses and are generally unsuitable as habitat for Diamond Firetails. Therefore, the project is unlikely to affect habitat critical to the survival of the species.

5. Disrupt the breeding cycle of an important population:

Habitat requirements for breeding include large areas of grassland for feeding, and suitable areas to build nests, such as in the base of nests of larger raptor species (e.g. Whistling Kites or Brown Falcons), in the prickly foliage of shrubs such as hakeas/boxthorn, in thickly foliated branches of trees and shrubs or in mistletoe growing on eucalypts. The vegetation proposed for removal lacks both shrub vegetation that is appropriate for nest building and grassland vegetation that is suitable for foraging. Therefore, the removal of this vegetation is unlikely to disrupt the breeding cycle of any potential important populations within the Project area.

6. Modify, destroy, remove or isolate or decrease the availability or quality of habitat to the extent that the species is likely to decline:

Although clearance of habitat is proposed, realignment of the project footprint has been undertaken to avoid areas of high ecological value, including those areas suitable for Diamond Firetail. Therefore, the areas proposed for clearance are generally degraded and lack the critical factors needed for the species (e.g. high cover of native grasses and appropriate shrub species for nest-building).

7. Result in invasive species that are harmful to a vulnerable species becoming established in the vulnerable species' habitat:

Invasive species known to be harmful to Diamond Firetail include livestock, rabbits, and exotic grasses. Whilst livestock and rabbits have led to habitat degradation through over grazing which can remove the shrub layer,

the replacement of native perennial grasses with exotic annual grasses (exacerbated by overgrazing) has resulted in food shortages during periods as exotic annual grass seed germinates only in the late autumn and winter. Given rabbits and livestock are already present in the survey area, there is a low likelihood that clearance will increase the abundance of rabbits above the background density.

8. Introduce disease that may cause the species to decline:

The Conservation Advice for the Diamond Firetail does not list any diseases as a threat to populations of the species (DCCEEW, 2023d).

9. Interfere substantially with the recovery of the species:

There is no recovery plan for the species. The Conservation Advice for the species includes ensuring all known populations of the species are stable and habitat important for the survival of the species is protected (DCCEEW, 2023d). Management priorities include retaining and protecting woodland, open forest, grassland, and mallee habitat from clearing, fragmentation and disturbance. The vegetation proposed for clearance in the Project area is of low quality, and therefore low value as habitat for Diamond Firetail. Realignment of the project footprint to avoid area of high habitat value ensure adherence to the conservation advice for the species.

Referral Requirements: Based on the significant impact assessment undertaken for Diamond Firetail (*Stagonopleura guttata*) within the Project area, no significant impact in accordance with Significant Impact Guidelines 1.1 was considered to occur and it is not recommended to undertake a referral for this species.

9 Clearance Summary

9.1 Cumulative Impact

When exercising a power or making a decision under Division 5 of the Native Vegetation Regulations 2017, the NVC must consider the potential cumulative impact, both direct and indirect, that is reasonably likely to result from a proposed clearance activity.

All impacts (direct and indirect) will be confined to the Project area, including any supporting infrastructure or ancillary works. Clearance will be mitigated through design and placement of turbine, stringlines and associated infrastructure, and management of stormwater runoff and dust during construction which will aid in preventing cumulative impacts post construction.

9.2 Address the Mitigation Hierarchy

When exercising a power or making a decision under Division 5 of the Native Vegetation Regulations 2017, the NVC must have regard to the mitigation hierarchy. The NVC will also consider, with the aim to minimize, impacts on biological diversity, soil, water and other natural resources, threatened species or ecological communities under the EPBC Act or listed species under the NP&W Act.

a) Avoidance – outline measures taken to avoid clearance of native vegetation

To avoid clearance of native vegetation the following measures will be adopted where possible/practical:

- The position of WTGs, stringlines and all other infrastructure associated with a WTG have been placed in areas with the least amount of native vegetation e.g., in an area of open paddock, or if vegetation cannot be avoided, in areas with the least amount of vegetation, or areas of vegetation that are more degraded.
- The use of pre-existing tracks for access to WTG locations has negated the need to clear vegetation in many areas.
- The layout avoids fragmentation of larger patches of vegetation.
- Areas that are known to contain threatened species have been avoided.

b) Minimization – if clearance cannot be avoided, outline measures taken to minimize the extent, duration and intensity of impacts of the clearance on biodiversity to the fullest possible extent (whether the impact is direct, indirect or cumulative).

Clearing extents will be minimised where practical, and vegetation clearance, interference or damage will occur in pre-approved areas only. Workers to be made aware of vegetation management requirements during induction training through work instructions.

- c) **Rehabilitation or restoration – outline measures taken to rehabilitate ecosystems that have been degraded, and to restore ecosystems that have been degraded, or destroyed by the impact of clearance that cannot be avoided or further minimized, such as allowing for the re-establishment of the vegetation.**

All areas around WTGs and stringline footprints will be rehabilitated back to pre-construction condition.

- d) **Offset – any adverse impact on native vegetation that cannot be avoided or further minimized should be offset by the achievement of a significant environmental benefit that outweighs that impact.**

SEB offset through payment into the Native Vegetation Fund. To be calculate upon final project layout finalisation.

4.5 Principles of Clearance (Schedule 1, *Native Vegetation Act 1991*)

The Native Vegetation Council will consider Principles 1(b), 1(c) and 1(d) when assigning a level of Risk under Regulation 16 of the Native Vegetation Regulations. The Native Vegetation Council will consider all the Principles of clearance of the Act as relevant, when considering an application referred under the PDI Act.

10 Discussion

10.1 Direct Impacts

10.1.1 Vegetation Clearance

The total Project area currently covers an approximate area of 23,853 ha. However, clearance is likely to be limited to the immediate project footprint (turbine sites, cable routes, access tracks and associated infrastructure). The project footprint will largely be aligned to impact on cleared landscapes and located in areas where there is availability of wind resource but at the same time, lacks intact habitats and native vegetation. Any clearance is likely to be limited to crossovers or where fences and road reserves have no other option for access. Micro siting works will avoid clearance wherever possible.

10.1.2 Fauna Habitat Fragmentation

Habitat fragmentation can impact species populations through increasing edge effects, reducing gene flow between small and isolated populations, reducing potential for species to adapt to climate change, and loss or severe modification of the interactions between species. Avoidance of fragmentation will be a high priority of the project. This particularly applies to threatened species and communities present within the general area.


10.1.3 Disturbance, Injury and Mortality to Fauna

Fauna mortality has the potential to occur during the operational phases of wind farms. Micro siting will target areas of high habitat value for resident and migratory species (if present). Nest sites for species that are resident and have foraging strategies such as soaring, gliding and low flight patterns will be highlighted in order to provide sufficient buffers to enable species such as this to maintain sustainable habitats.

10.2 Summary

The assessment has been prepared to assess the ecological values of the Project area including EPBC Act and NPW Act listed threatened species and communities and provide guidance on targeting subsequent field survey of the area.

Results of the broad desktop assessment indicate that the Project area consists of mostly of farmland under agricultural land use but has around 30% on average remnant vegetation present largely as patches of protected reserves and heritage agreements, vegetation associated with road reserves and riparian corridors. This is largely Mallee vegetation however some areas of the EPBC Act listed threatened Ecological community exists in the Project site and some alternatives will be sought to avoid interference where possible i.e., directional drilling.



Numerous federal and state listed conservation significant flora and fauna have records from within and surrounding the Project area. However, records are very strongly linked to reserves and larger intact patches on areas not previously cleared. This demonstrates the importance of avoidance and interaction with further fragmentation of existing corridors between smaller patches.

Potential direct impacts from the Project include native vegetation clearance, fauna habitat fragmentation, disturbance, injury and mortality to fauna. It is anticipated that most impacts from the Project can be avoided, minimised or mitigated through the implementation of a variety of measures during the detailed design phase. With the majority of the Project area under cereal cropping land use, the potential to utilise these areas for burial of transmission cables means that levels of disturbance during construction of this element is low. Access tracks are present throughout the Project area as part of standard farming practices and additional access to turbine sites also results in minimal disturbance. Turbines as part of the operational phase avoid areas of intact vegetation and area anticipated to not have a significant impact above that of wind farms in other parts of the Eyre Peninsula. Threatened fauna species known to utilise the area are low flying and ground dwelling species not known to generally fly at heights in the blade sweep area. Monitoring to determine impacts to higher flying species with soaring habits such as raptors (Eagles, Falcons, Kites etc.) are a common risk associated with operations around windfarms however have shown to be adaptable to these types of infrastructure in similar environments elsewhere.

A Native Vegetation Clearance Report / Application including Significant Environmental Benefit (SEB) calculations would be required for removal of native vegetation.

11 References

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12 Appendices

Appendix 1. Avian survey results.

Species	Common Name	Site																			Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
<i>Acanthagenys rufogularis</i>	Spiny-cheeked Honeyeater		1											1	1			1	1		5
<i>Acanthiza apicalis</i>	Inland Thornbill						1	1											1		3
<i>Acanthiza chrysorrhoa</i>	Yellow-rumped Thornbill				1			1	1												3
<i>Acanthiza sp.</i>	thornbills													1			1				2
<i>Anthochaera carunculata</i>	Red Wattlebird		1			1	1	1			1		1		1			1	1		9
<i>Anthus australis</i>	Australian Pipit		1						1												2
<i>Aquila audax audax</i>	Wedge-tailed Eagle									1											1
<i>Artamus cyanopterus</i>	Dusky Woodswallow		1	1																	2
<i>Artamus sp.</i>	woodswallows													1				1			2
<i>Barnardius zonarius</i>	Australian Ringneck													1				1	1	1	4
<i>Cincloramphus cruralis</i>	Brown Songlark												1					1			2
<i>Colluricincla harmonica</i>	Grey Shrike-thrush						1							1			1		1		4
<i>Coracina novaehollandiae</i>	Black-faced Cuckooshrike	1															1				2
<i>Corvus coronoides</i>	Australian Raven																		1		1
<i>Corvus mellori</i>	Little Raven		1		1	2						1		1				1			7
<i>Corvus sp.</i>	Crows						1				1				1						3
<i>Coturnix sp.</i>	Quails		1																		1
<i>Cracticus torquatus leucopterus</i>	Grey Butcherbird				1	3								1		1			1		7
<i>Drymodes brunneopygia</i>	Southern Scrub Robin													3							3
<i>Elanus axillaris</i>	Black-shouldered Kite		1																		1

Species	Common Name	Site																			Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
<i>Eolophus roseicapilla</i>	Galah										1			1	1						3
<i>Falco cenchroides cenchroides</i>	Nankeen Kestrel			1	1																2
<i>Gavialis virescens</i>	Singing Honeyeater			1	1	1								1		1	1		1		7
<i>Grallina cyanoleuca cyanoleuca</i>	Magpielark		1								1		1							1	4
<i>Gymnorhina tibicen</i>	Australian Magpie			1	1	1					1			1					1		6
<i>Lichenostomus cratitius</i>	Purple-gaped Honeyeater				1	1															2
<i>Manorina flavigula</i>	Yellow-throated Miner							1					1								2
<i>Manorina melanocephala</i>	Noisy Miner					5															5
<i>Melithreptus brevirostris</i>	Brown-headed Honeyeater																		1		1
<i>Ocyphaps lophotes lophotes</i>	Crested Pigeon				1			1								1					3
<i>Pachycephala fuliginosa fuliginosa</i>	Western Whistler																		1		1
<i>Pachycephala rufiventris rufiventris</i>	Rufous Whistler																1				1
<i>Pardalotus punctatus</i>	Spotted Pardalote													1			1		1		3
<i>Pardalotus sp.</i>	Pardalote				1																1
<i>Pardalotus striatus</i>	Striated Pardalote						1	1													2
<i>Passer domesticus domesticus</i>	House Sparrow	1																			1
<i>Phaps chalcoptera</i>	Common Bronzewing	1			1								1	1					1		5
<i>Pomatostomus superciliosus</i>	White-browed Babbler																1		1		2
<i>Rhipidura leucophrys leucophrys</i>	Willie Wagtail						1	1					1	1	1	1	1				7
<i>Smicrornis brevirostris</i>	Weebill						1	1					1				1				4
<i>Sturnus vulgaris vulgaris</i>	Common Starling		1																		1
<i>Zosterops lateralis</i>	Silvereye																		1		1
Total		3	9	4	10	14	7	8	2	1	5	1	7	16	5	4	9	6	15	2	128

Appendix 2.

Condition categories and thresholds for the Eyre Peninsula Blue Gum (*Eucalyptus petiolaris*) Woodland Ecological Community.

Category and Rationale	Thresholds
A. Exceptional quality – larger patches with very high native species vegetation cover and very diverse understorey.	Patch size is ≥ 1 ha; AND $\geq 70\%$ of total vegetative cover ¹ in the mid and ground layers are comprised of native species ² ; AND 18 or more native species from Appendix B, Table B1 are present in the mid and ground layers.
B. High quality – good native vegetation cover and good native species diversity in the understorey.	Patch size is ≥ 0.2 ha; AND $\geq 50\%$ of total vegetative cover in the mid and ground layers are comprised of native species; AND 12 or more native species from Appendix B, Table B1 are present in the mid and ground layers.
C1. Medium quality – good native vegetation cover and diverse native species in the understorey.	Patch size is ≥ 0.2 ha; AND $\geq 50\%$ of total vegetative cover in the mid and ground layers are comprised of native species; AND 4 or more native species from Appendix B, Table B1 are present in the mid and ground layers;
OR	
C2. Medium quality – patches with connectivity to other native vegetation remnants in the landscape.	Patch size is ≥ 0.2 ha; AND $\geq 30\%$ of total vegetative cover in the mid and ground layers are comprised of native species; AND 4 or more native species from Appendix B, Table B1 are present in the mid and ground layers; AND The patch is contiguous with a native vegetation remnant (any native vegetation where cover in each layer present is dominated by native species) that is ≥ 1 ha in area.
OR	
C3. Medium quality – patches that have large mature trees or trees with hollows (habitat)	Patch size is ≥ 0.2 ha; AND $\geq 30\%$ of total vegetative cover in the mid and ground layers are comprised of native species; AND 4 or more native species from Appendix B, Table B1 are present in the mid and ground layers; AND The patch has at least one tree with hollows or at least one large tree (≥ 80 cm dbh ³) from the upper layer species list in Table B1. Where patches are ≥ 1 ha, a density of at least one mature tree or tree with hollows per hectare is required.

¹ Vegetative cover excludes mosses and lichens, patches of bare grounds, plant litter.

² Mid and ground layers exclude juvenile canopy species. This applies to categories A, B, C1, C2, and C3.

³ dbh: diameter at breast height.

BDBSA Flora records within the Study area.

Species Name	Common Name	EPBC Act	NPW Act	Most Recent Obs.
<i>Acacia ancistrophylla</i> var. <i>lissophylla</i>	Hook-leaf Wattle			13/05/2004
<i>Acacia ancistrophylla/sclerophylla</i>	(blank)			1/10/2020
<i>Acacia beckleri</i> (NC)	Beckler's Rock Wattle			1/02/1990
<i>Acacia beckleri</i> ssp. <i>beckleri</i>	Beckler's Rock Wattle			24/09/2003
<i>Acacia brachybotrya</i>	Grey Mulga-bush			2/12/1999
<i>Acacia burkittii</i>	Pin-bush Wattle			9/11/2021
<i>Acacia calamifolia</i>	Wallowa			8/11/2021
<i>Acacia calamifolia</i> (NC)	Wallowa			13/05/2004
<i>Acacia continua</i>	Thorn Wattle			25/03/2014
<i>Acacia cretacea</i>	Chalky Wattle	EN	E	3/02/1962
<i>Acacia cupularis</i>	Cup Wattle			2/12/2002
<i>Acacia enterocarpa</i>	Jumping-jack Wattle	EN	E	9/11/2021
<i>Acacia euthycarpa</i>	Wallowa			24/09/2003
<i>Acacia farinosa</i>	Mealy Wattle			2/12/1999
<i>Acacia gillii</i>	Gill's Wattle			20/11/1998
<i>Acacia hakeoides</i>	Hakea Wattle			7/11/1998
<i>Acacia halliana</i>	Hall's Wattle			1/10/2020
<i>Acacia halliana/microcarpa</i>	(blank)			1/12/1999
<i>Acacia hexaneura</i>	Six-nerve Spine-bush		R	8/11/2021
<i>Acacia ligulata</i>	Umbrella Bush			13/05/2004
<i>Acacia merrallii</i>	Merrall's Wattle			8/11/2021
<i>Acacia microcarpa</i>	Manna Wattle			28/11/2002
<i>Acacia notabilis</i>	Notable Wattle			8/11/2021
<i>Acacia nyssoophylla</i>	Spine Bush			18/07/1991
<i>Acacia oswaldii</i>	Umbrella Wattle			7/11/1998
<i>Acacia paradoxa</i>	Kangaroo Thorn			4/05/2012
<i>Acacia praemorsa</i>	Senna Wattle	VU	E	20/06/2018
<i>Acacia pycnantha</i>	Golden Wattle			24/07/2014
<i>Acacia rheticocarpa</i>	Resin Wattle	VU	V	5/09/2006
<i>Acacia rhigiophylla</i>	Dagger-leaf Wattle		R	4/11/1998
<i>Acacia rigens</i>	Nealie			25/03/2014
<i>Acacia rupicola</i>	Rock Wattle			25/03/2014
<i>Acacia sclerophylla</i> var. <i>sclerophylla</i>	Hard-leaf Wattle			9/11/2021
<i>Acacia sericophylla</i>	Wirewood			9/11/2021
<i>Acacia</i> sp.	Wattle			9/11/2021
<i>Acacia spinescens</i>	Spiny Wattle			25/03/2014
<i>Acacia wilhelmiana</i>	Dwarf Nealie			26/03/2008
<i>Acrotriche cordata</i>	Blunt-leaf Ground-berry			30/10/1991
<i>Acrotriche patula</i>	Prickly Ground-berry			3/09/2016
<i>Actinobole uliginosum</i>	Flannel Cudweed			24/09/2003
<i>Adenanthos terminalis</i>	Yellow Gland-flower			3/10/2002
<i>Adriana quadripartita</i>	Coast Bitter-bush			26/11/1985
<i>Agrostis avenacea</i> var. <i>avenacea</i> (NC)	Common Blown-grass			7/11/1998

Species Name	Common Name	EPBC Act	NPW Act	Most Recent Obs.
<i>Aira caryophyllea</i>	Silvery Hair-grass			8/11/2021
<i>Aira cupaniana</i>	Small Hair-grass			24/09/2003
<i>Aira sp.</i>	Hair-grass			8/11/2021
<i>Aizoon pubescens</i>	Coastal Galenia			2/12/1999
<i>Aizoon secundum</i>	Galenia			9/11/2021
<i>Alectryon oleifolius ssp. canescens</i>	Bullock Bush			13/05/2004
<i>Allocauarina helmsii</i>	Helm's Oak-bush			1/06/1941
<i>Allocauarina muelleriana ssp.</i>	Common Oak-bush			25/03/2014
<i>Allocauarina muelleriana ssp. muelleriana</i>	Common Oak-bush			9/11/1998
<i>Allocauarina pusilla</i>	Dwarf Oak-bush			7/03/1991
<i>Allocauarina verticillata</i>	Drooping Sheoak			25/03/2014
<i>Aloe arborescens</i>	(blank)			24/07/2014
<i>Alyogyne hakeifolia</i>	Hakea-leaf Hibiscus			1/10/1998
<i>Alyogyne huegelii</i>	Native Hibiscus			2/12/2002
<i>Alyogyne huegelii (NC)</i>	Native Hibiscus			25/03/2014
<i>Alyxia buxifolia</i>	Sea Box			2/09/2016
<i>Amanita sp.</i>	(blank)			29/06/2000
<i>Amphibromus archeri</i>	Pointed Swamp Wallaby-grass		R	29/09/1989
<i>Amphibromus macrorhinus</i>	Long-nosed Swamp Wallaby-grass		R	8/10/1990
<i>Amphipogon caricinus var. caricinus</i>	Long Grey-beard Grass			10/11/1998
<i>Amyema melaleucae</i>	Tea-tree Mistletoe			2/11/1998
<i>Amyema miquelii</i>	Box Mistletoe			1/02/1990
<i>Amyema miraculosa ssp. boormanii</i>	Fleshy Mistletoe			1/10/1998
<i>Amyema sp.</i>	Mistletoe			5/02/1984
<i>Anagallis sp.</i>	(blank)			8/11/2021
<i>Androcalva tatei</i>	Trailing Commersonia			3/10/2002
<i>Angianthus preissianus</i>	Salt Angianthus			15/11/1990
<i>Angianthus tomentosus</i>	Hairy Angianthus			16/12/1992
<i>Anthocercis anisantha ssp.</i>	Spiny Ray-flower			1/02/1990
<i>Anthocercis anisantha ssp. collina</i>	Gawler Ranges Ray-flower			21/10/1998
<i>Aotus subspinescens</i>	Mallee Aotus			10/11/1998
<i>Arctotheca calendula</i>	Cape Weed			9/11/2021
<i>Argentipallium obtusifolium</i>	Blunt Everlasting			13/11/1990
<i>Argyranthemum frutescens ssp. foeniculaceum</i>	Teneriffe Daisy			29/09/1989
<i>Aristida behriana</i>	Brush Wire-grass			29/11/2002
<i>Aristida contorta</i>	Curly Wire-grass			24/09/2003
<i>Aristida personata</i>	Purple Wire-grass			24/01/1996
<i>Aristida sp.</i>	Three-awn/Wire-grass			8/11/2021
<i>Arrhenia sp.</i>	(blank)			22/07/2016
<i>Arthropodium minus</i>	Small Vanilla-lily			16/09/2000
<i>Asparagus asparagoides (NC)</i>	Bridal Creeper			25/10/2000
<i>Asparagus asparagoides f.</i>	Bridal Creeper			25/03/2014
<i>Asparagus asparagoides f. asparagoides</i>	Bridal Creeper			8/09/2010

Species Name	Common Name	EPBC Act	NPW Act	Most Recent Obs.
<i>Asperula conferta</i>	Common Woodruff			2/11/1998
<i>Asphodelus fistulosus</i>	Onion Weed			9/11/2021
<i>Asplenium subglandulosus</i>	Blanket Fern			24/09/2003
<i>Asteridea athrixioides</i>	Wirewort			21/10/1998
<i>Asteridea athrixioides f. athrixioides (NC)</i>	Wirewort			2/11/1998
<i>Atriplex acutibractea ssp. acutibractea</i>	Pointed Saltbush			7/11/1998
<i>Atriplex acutibractea ssp. karoniensis</i>	Pointed Saltbush			6/11/1998
<i>Atriplex paludosa ssp.</i>	Marsh Saltbush			5/02/1984
<i>Atriplex semibaccata</i>	Berry Saltbush			9/11/2021
<i>Atriplex sp.</i>	Saltbush			26/11/1985
<i>Atriplex stipitata</i>	Bitter Saltbush			1/10/2020
<i>Atriplex suberecta</i>	Lagoon Saltbush			13/05/2004
<i>Atriplex vesicaria</i>	Bladder Saltbush			8/11/2021
<i>Atriplex vesicaria ssp. (NC)</i>	Bladder Saltbush			1/12/1999
<i>Austrostipa acrocliata</i>	Graceful Spear-grass			8/11/2021
<i>Austrostipa blackii</i>	Crested Spear-grass			10/11/1998
<i>Austrostipa drummondii</i>	Cottony Spear-grass			9/11/2021
<i>Austrostipa elegantissima</i>	Feather Spear-grass			9/11/2021
<i>Austrostipa eremophila</i>	Rusty Spear-grass			8/11/2021
<i>Austrostipa exilis</i>	Heath Spear-grass			10/11/1998
<i>Austrostipa hemipogon</i>	Half-beard Spear-grass			8/11/2021
<i>Austrostipa hemipogon/mollis</i>	(blank)			15/10/1998
<i>Austrostipa macalpinei</i>	Annual Spear-grass			7/11/1998
<i>Austrostipa mollis</i>	Soft Spear-grass			6/11/1998
<i>Austrostipa mundula</i>	Neat Spear-grass			6/11/1998
<i>Austrostipa nitida</i>	Balcarra Spear-grass			24/11/2009
<i>Austrostipa nodosa</i>	Tall Spear-grass			10/11/1998
<i>Austrostipa platychaeta</i>	Flat-awn Spear-grass			3/12/2002
<i>Austrostipa puberula</i>	Fine-hairy Spear-grass			7/11/1998
<i>Austrostipa scabra group</i>	Falcate-awn Spear-grass			1/10/2020
<i>Austrostipa scabra ssp.</i>	Rough Spear-grass			8/11/2021
<i>Austrostipa scabra ssp. falcata</i>	Slender Spear-grass			9/11/2021
<i>Austrostipa scabra ssp. scabra</i>	Rough Spear-grass			9/11/2021
<i>Austrostipa sp.</i>	Spear-grass			9/11/2021
<i>Austrostipa tenuifolia</i>	(blank)		R	1/12/1954
<i>Austrostipa trichophylla</i>	(blank)			9/11/1998
<i>Avellinia festuoides</i>	Avellinia			24/09/2003
<i>Avena barbata</i>	Bearded Oat			9/11/2021
<i>Avena fatua</i>	Wild Oat			1/01/1987
<i>Avena sp.</i>	Oat			2/12/1999
<i>Bellardia latifolia</i>	Red Bartsia			4/11/1998
<i>Bertya tasmanica ssp. vestita</i>	Mitchell's Bertya			1/12/2002
<i>Beyeria lechenaultii</i>	Pale Turpentine Bush			1/10/2020
<i>Billardiera cymosa (NC)</i>	Sweet Apple-berry			4/12/2002

Species Name	Common Name	EPBC Act	NPW Act	Most Recent Obs.
<i>Billardiera cymosa</i> ssp. <i>cymosa</i>	Sweet Apple-berry			8/11/2021
<i>Billardiera cymosa</i> ssp. <i>pseudocymosa</i>	Sweet Apple-berry			30/10/1983
<i>Billardiera sericophora</i>	Silky Apple-berry			2/12/2002
<i>Billardiera</i> sp.	Apple-berry			16/12/1992
<i>Billardiera versicolor</i>	Yellow-flower Apple-berry			13/11/1990
<i>Blennospora drummondii</i>	Dwarf Button-flower			14/08/2008
<i>Boronia coerulescens</i> ssp. <i>coerulescens</i>	Blue Boronia			3/10/2002
<i>Boronia inornata</i> ssp. <i>leptophylla</i>	Dryland Boronia			9/11/2021
<i>Brachyscome ciliaris</i> var. <i>ciliaris</i>	Variable Daisy			7/11/1998
<i>Brachyscome ciliaris</i> var. <i>lanuginosa</i>	Woolly Variable Daisy			12/04/1992
<i>Brachyscome goniocarpa</i>	Dwarf Daisy			1/02/1990
<i>Brachyscome lineariloba</i>	Hard-head Daisy			14/08/2008
<i>Brachyscome perpusilla</i>	Tiny Daisy			2/09/2016
<i>Brachyscome</i> sp.	Native Daisy			8/11/2021
<i>Brassica</i> sp.	(blank)			9/11/2021
<i>Brassica tournefortii</i>	Wild Turnip			9/11/2021
<i>Briza minor</i>	Lesser Quaking-grass			6/11/1998
<i>Bromus diandrus</i>	Great Brome			10/11/1998
<i>Bromus diandrus</i> (NC)	Great Brome			25/10/2000
<i>Bromus madritensis</i>	Compact Brome			1/02/1990
<i>Bromus rubens</i>	Red Brome			24/09/2003
<i>Bromus</i> sp.	Brome			2/10/1990
<i>Buglossoides arvensis</i>	Sheepweed			1/02/1990
<i>Bulbine semibarbata</i>	Small Leek-lily			24/09/2003
<i>Bupleurum semicompositum</i>	Hare's Ear			1/10/1998
<i>Bursaria spinosa</i> ssp.	Bursaria			25/03/2014
<i>Bursaria spinosa</i> ssp. <i>spinosa</i>	Sweet Bursaria			24/09/2003
<i>Caladenia brumalis</i>	Winter Spider-orchid	VU	V	1/02/1990
<i>Caladenia capillata</i>	Wispy Spider-orchid			6/09/2000
<i>Caladenia cardiochila</i>	Heart-lip Spider-orchid			21/09/1990
<i>Caladenia carnea</i>	Pink Fingers			1/02/1990
<i>Caladenia clavula</i>	Brown-club Spider Orchid			10/11/1998
<i>Caladenia fuscata</i>	Dusky Caladenia			15/09/2000
<i>Caladenia septuosa</i>	Eyre Peninsula Spider-orchid			24/09/2003
<i>Caladenia</i> sp.	Spider-orchid			7/03/1991
<i>Caladenia stricta</i>	Upright Caladenia			2/10/1990
<i>Caladenia tentaculata</i>	King Spider-orchid			21/10/1998
<i>Caladenia verrucosa</i>	Yellow-club Spider-orchid			26/11/1985
<i>Caladenia White spider orchid group</i>	White Spider-orchid			1/10/1998
<i>Caladenia zephyra</i>	West Wind Spider-orchid		V	1/09/2016
<i>Calandrinia calyptrata</i>	Pink Purslane			24/09/2003
<i>Calandrinia corrigioloides</i>	Strap Purslane			24/09/2003
<i>Calandrinia eremaea</i>	Dryland Purslane			5/09/2006
<i>Calandrinia granulifera</i>	Pigmy Purslane			16/10/2007

Species Name	Common Name	EPBC Act	NPW Act	Most Recent Obs.
<i>Calandrinia sp.</i>	Purslane/Parakeelya			20/09/1990
<i>Callistemon rugulosus</i>	Scarlet Bottlebrush			8/11/2021
<i>Callistemon rugulosus var. (NC)</i>	Scarlet Bottlebrush			2/12/1999
<i>Callitris glaucophylla</i>	White Cypress-pine			14/09/1974
<i>Callitris gracilis</i>	Southern Cypress Pine			25/03/2014
<i>Callitris sp.</i>	Native Pine			20/11/1998
<i>Callitris sp. Limestone (M.D.Crisp 11785)</i>	Limestone Cypress Pine			7/03/1991
<i>Callitris verrucosa</i>	Scrub Cypress Pine			9/11/2021
<i>Calotis cymbacantha</i>	Showy Burr-daisy			9/11/2021
<i>Calotis erinacea</i>	Tangled Burr-daisy			23/10/1998
<i>Calotis hispidula</i>	Hairy Burr-daisy			6/11/1998
<i>Calytrix involucrata</i>	Cup Fringe-myrtle			9/11/2021
<i>Calytrix sp.</i>	Fringe-myrtle			25/03/2014
<i>Calytrix tetragona</i>	Common Fringe-myrtle			25/03/2014
<i>Carduus tenuiflorus</i>	Slender Thistle			27/10/1983
<i>Carex breviculmis</i>	Short-stem Sedge			5/11/1998
<i>Carpobrotus modestus</i>	Inland Pigface			10/11/1998
<i>Carpobrotus modestus/rossii</i>	Native Pigface			16/12/1992
<i>Carpobrotus rossii</i>	Native Pigface			5/11/1998
<i>Carpobrotus rossii (NC)</i>	Native Pigface			7/11/1998
<i>Carpobrotus sp.</i>	Pigface			18/07/1991
<i>Carrichtera annua</i>	Ward's Weed			9/11/2021
<i>Carthamus lanatus</i>	Saffron Thistle			8/11/2021
<i>Cassinia arcuata</i>	Drooping Cassinia			26/03/2008
<i>Cassinia arcuata (NC)</i>	Drooping Cassinia			26/03/2008
<i>Cassinia complanata</i>	Sticky Cassinia			20/06/2018
<i>Cassinia uncata</i>	(blank)			5/11/1998
<i>Cassinia uncata (NC)</i>	Sticky Cassinia			7/11/1998
<i>Cassytha glabella f. dispar</i>	Slender Dodder-laurel			1/10/2020
<i>Cassytha melantha</i>	Coarse Dodder-laurel			9/11/2021
<i>Cassytha peninsularis</i>	Peninsula Dodder-laurel			25/03/2014
<i>Cassytha pubescens</i>	Downy Dodder-laurel			16/12/1992
<i>Cassytha sp.</i>	Dodder-laurel			9/11/2021
<i>Casuarina glauca</i>	Grey Bul oak			1/10/2004
<i>Casuarina pauper</i>	Black Oak			13/05/2004
<i>Casuarinaceae sp.</i>	Sheoak Family			2/12/1999
<i>Caustis pentandra</i>	Thick Twist-rush			13/07/1993
<i>Cenchrus clandestinus</i>	Kikuyu			24/07/2014
<i>Cenchrus setaceus</i>	Fountain Grass			2/12/1999
<i>Centaurea melitensis</i>	Malta Thistle			8/11/2021
<i>Centaurea solstitialis</i>	St Barnaby's Thistle			8/11/2021
<i>Centaurea sp.</i>	Centaury			8/11/2021
<i>Centaureum erythraea</i>	Common Centaury			8/11/2021
<i>Centaureum tenuiflorum</i>	Branched Centaury			25/03/2014

Species Name	Common Name	EPBC Act	NPW Act	Most Recent Obs.
<i>Centaurium tenuiflorum</i> (NC)	Branched Centaury			4/11/1998
<i>Centipeda cunninghamii</i>	Common Sneezeweed			8/11/2021
<i>Centrolepis aristata</i>	Pointed Centrolepis			24/09/2003
<i>Centrolepis cephaloformis</i> ssp. <i>cephaloformis</i>	Cushion Centrolepis		R	18/10/1998
<i>Centrolepis polygyna</i>	Wiry Centrolepis			24/09/2003
<i>Centrolepis strigosa</i> ssp. <i>strigosa</i>	Hairy Centrolepis			24/09/2003
<i>Ceratogyne obionoides</i>	Wingwort		R	18/09/2008
<i>Chamelaucium uncinatum</i>	Geraldton Wax			9/10/2013
<i>Cheilanthes austrotenuifolia</i>	Annual Rock-fern			24/09/2003
<i>Cheilanthes distans</i>	Bristly Cloak-fern			1/10/1998
<i>Cheilanthes lasiophylla</i>	Woolly Cloak-fern			21/10/1998
<i>Cheilanthes sieberi</i> ssp.	Narrow Rock-fern			25/03/2014
<i>Cheilanthes sieberi</i> ssp. <i>sieberi</i>	Narrow Rock-fern			1/10/1998
<i>Cheiranthra alternifolia</i>	Hand-flower			2/11/1998
<i>Chenopodium curvispicatum</i>	Cottony Goosefoot			9/11/2021
<i>Chenopodium desertorum</i> ssp.	Desert Goosefoot			18/07/1991
<i>Chenopodium desertorum</i> ssp. <i>anidiophyllum</i>	Mallee Goosefoot			8/11/2021
<i>Chenopodium desertorum</i> ssp. <i>desertorum</i>	Frosted Goosefoot			15/08/2013
<i>Chenopodium desertorum</i> ssp. <i>microphyllum</i>	Small-leaf Goosefoot			8/11/2021
<i>Chenopodium desertorum</i> ssp. <i>rectum</i>	Erect Goosefoot			12/04/1992
<i>Chloris truncata</i>	Windmill Grass			8/11/2021
<i>Chondrilla juncea</i>	Skeleton Weed			20/11/1998
<i>Choretrum chrysanthum</i>	Yellow Sour-bush		R	14/12/2022
<i>Choretrum chrysanthum/glomeratum</i>	Sour-bush			1/12/2002
<i>Choretrum glomeratum</i>	White Sour-bush			28/11/2002
<i>Choretrum</i> sp.	Sour-bush			18/06/1986
<i>Chrysanthemoides monilifera</i> ssp. <i>monilifera</i>	Boneseed			30/06/2008
<i>Chrysocephalum apiculatum</i>	Common Everlasting			9/11/2021
<i>Chrysocephalum apiculatum</i> (NC)	Common Everlasting			20/11/1998
<i>Chrysocephalum baxteri</i>	White Everlasting			7/11/1998
<i>Chrysocephalum semipapposum</i>	Clustered Everlasting			8/11/2021
<i>Chrysocephalum</i> sp.	Everlasting			8/11/2021
<i>Chthonocephalus pseudevax</i>	Ground-heads			5/09/2006
<i>Citrullus colocynthis</i>	Colocynth			31/03/1965
<i>Clematis microphylla</i>	Old Man's Beard			25/03/2014
<i>Clematis microphylla</i> var. <i>microphylla</i> (NC)	Old Man's Beard			28/11/2002
<i>Clematis</i> sp.	(blank)			31/10/1986
<i>Comesperma calymega</i>	Blue-spike Milkwort			28/11/2002
<i>Comesperma scoparium</i>	Broom Milkwort			3/10/2002
<i>Comesperma volubile</i>	Love Creeper			24/09/2003
<i>Commersonia tatei</i> (NC)	Trailing Commersonia			7/11/1998

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<i>Compositae sp.</i>	Daisy Family			2/12/1999
<i>Conospermum patens</i>	Slender Smoke-bush			7/11/1998
<i>Convolvulus angustissimus</i>	Narrow-leaf Bindweed			8/11/2021
<i>Convolvulus angustissimus ssp. peninsularum</i> (NC)	Narrow-leaf Bindweed			1/10/1998
<i>Convolvulus erubescens</i> (NC)	Australian Bindweed			2/11/1998
<i>Convolvulus eyreanus</i> (NC)	Silver Bindweed			12/04/1992
<i>Convolvulus remotus</i>	Grassy Bindweed			7/11/1998
<i>Correa backhouseana</i> var. <i>coriacea</i>	Thick-leaf Correa			3/12/2002
<i>Correa reflexa</i> (NC)	Common Correa			28/11/2002
<i>Correa reflexa</i> var.	(blank)			25/03/2014
<i>Correa sp.</i>	Correa			19/06/1986
<i>Cortinarius sp.</i>	(blank)			22/07/2016
<i>Crassula closiana</i>	Stalked Crassula			20/08/2007
<i>Crassula colligata</i> ssp. <i>lamprosperma</i>	(blank)			24/09/2003
<i>Crassula colorata</i> var.	Dense Crassula			24/09/2003
<i>Crassula colorata</i> var. <i>acuminata</i>	Dense Crassula			10/11/1998
<i>Crassula colorata</i> var. <i>colorata</i>	Dense Crassula			10/11/1998
<i>Crassula decumbens</i> var. <i>decumbens</i>	Spreading Crassula			6/11/1998
<i>Crassula exserta</i>	Large-fruit Crassula		R	19/10/1998
<i>Crassula sieberiana</i> ssp. <i>tetramera</i> (NC)	Australian Stonecrop			10/11/1998
<i>Crassula sp.</i>	Crassula/Stonecrop			8/11/2021
<i>Cratystylis conocephala</i>	Bluebush Daisy			23/10/1998
<i>Critesion sp.</i> (NC)	Barley-grass			2/10/1990
<i>Cryptandra amara</i> var. (NC)	Cryptandra			15/11/1990
<i>Cryptandra amara</i> var. <i>amara</i> (NC)	Spiny Cryptandra			13/05/2004
<i>Cryptandra amara</i> var. <i>floribunda</i> (NC)	Pretty Cryptandra			10/11/1998
<i>Cryptandra propinqua</i>	Silky Cryptandra			14/07/1993
<i>Cryptandra sp.</i>	Cryptandra			4/06/1986
<i>Cryptandra sp. Floriferous</i> (W.R.Barker 4131)	Pretty Cryptandra			27/08/1995
<i>Cryptandra sp. Floriferous</i> (W.R.Barker 4131) (NC)	Pretty Cryptandra			14/10/1998
<i>Cryptandra tomentosa</i> (NC)	Heath Cryptandra			27/08/1995
<i>Cucumis myriocarpus</i> ssp. <i>myriocarpus</i>	Paddy Melon			8/11/2021
<i>Cullen discolor</i>	Prostrate Scurf-pea			24/11/2009
<i>Cymbopogon ambiguus</i>	Lemon-grass			25/03/2014
<i>Cymbopogon oblectus</i>	Silky-head Lemon-grass			15/09/1974
<i>Cynanchum viminalis</i> ssp. <i>australe</i>	Caustic Bush			22/07/1985
<i>Cynodon dactylon</i> (NC)	Couch			3/11/1998
<i>Cynodon dactylon</i> var. <i>dactylon</i>	Couch			24/07/2014
<i>Cyperus gymnocaulos</i>	Spiny Flat-sedge			24/07/2014
<i>Cyphanthera myosotidea</i>	Small-leaf Ray-flower			3/10/2002
<i>Cyrtostylis robusta</i>	Robust Gnat-orchid			1/02/1990
<i>Dampiera dysantha</i>	Shrubby Dampiera			9/06/1984

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<i>Dampiera lanceolata</i> var. <i>lanceolata</i>	Grooved Dampiera			2/12/2002
<i>Dampiera rosmarinifolia</i>	Rosemary Dampiera			9/11/2021
<i>Danthonia</i> sp. (NC)	Wallaby-grass			13/05/2004
<i>Daucus glochidiatus</i>	Native Carrot			24/09/2003
<i>Daviesia aphylla</i>	Dryland Bitter-pea			4/11/1998
<i>Daviesia arenaria</i>	Sand Bitter-pea			23/05/1990
<i>Daviesia benthamii</i> ssp. (NC)	Spiny Bitter-pea			13/05/2004
<i>Daviesia benthamii</i> ssp. <i>humilis</i> (NC)	Mallee Bitter-pea		R	4/10/2002
<i>Daviesia brevifolia</i>	Leafless Bitter-pea			4/06/1986
<i>Daviesia devito</i>	Mallee Bitter-pea		R*	30/10/1986
<i>Daviesia genistifolia</i>	Broom Bitter-pea			31/10/1986
<i>Daviesia pectinata</i>	Zig-zag Bitter-pea		R	28/11/2012
<i>Daviesia ulicifolia</i> ssp. <i>aridicola</i>	Gorse Bitter-pea			13/10/1984
<i>Dianella brevicaulis</i>	Short-stem Flax-lily			9/11/2021
<i>Dianella brevicaulis/revoluta</i> var.	Black-anther Flax-lily			11/04/1992
<i>Dianella revoluta</i> var.	(blank)			4/12/2002
<i>Dianella revoluta</i> var. <i>revoluta</i>	Black-anther Flax-lily			9/11/2021
<i>Dianella</i> sp.	Flax-lily			2/12/1999
<i>Dichondra repens</i>	Kidney Weed			25/03/2014
<i>Dicrastylis verticillata</i>	Whorled Sand-sage			9/11/2021
<i>Dillwynia hispida</i>	Red Parrot-pea			1/02/1990
<i>Dillwynia sparsifolia</i>	Sparse-leaf Parrot-pea			1/10/2020
<i>Disphyma crassifolium</i> ssp. <i>clavellatum</i>	Round-leaf Pigface			3/12/2002
<i>Dittrichia graveolens</i>	Stinkweed			13/05/2004
<i>Diuris pardina</i>	Spotted Donkey-orchid			2/11/1998
<i>Diuris pardina</i> (NC)	Spotted Donkey-orchid			2/11/1998
<i>Dodonaea baueri</i>	Crinkled Hop-bush			8/11/2021
<i>Dodonaea bursariifolia</i>	Small Hop-bush			9/11/2021
<i>Dodonaea hexandra</i>	Horned Hop-bush			1/10/2020
<i>Dodonaea</i> sp.	Hop-bush			9/11/2021
<i>Dodonaea stenozyga</i>	Desert Hop-bush			9/11/2021
<i>Dodonaea viscosa</i> ssp.	Sticky Hop-bush			8/11/2021
<i>Dodonaea viscosa</i> ssp. <i>angustissima</i>	Narrow-leaf Hop-bush			26/03/2008
<i>Dodonaea viscosa</i> ssp. <i>spatulata</i>	Sticky Hop-bush			25/03/2014
<i>Drosera glanduligera</i>	Scarlet Sundew			24/09/2003
<i>Drosera hookeri</i>	Pale Sundew			21/10/1998
<i>Drosera macrantha</i> ssp. <i>planchonii</i>	Climbing Sundew			24/09/2003
<i>Drosera peltata</i> (NC)	Pale Sundew			21/10/1998
<i>Drosera peltata</i> s.str.	Swamp Sundew			3/09/2016
<i>Dysphania melanocarpa</i>	Black Crumbweed			8/11/2021
<i>Echium plantagineum</i>	Salvation Jane			25/03/2014
<i>Ehrharta calycina</i>	Perennial Veldt Grass			25/10/2000
<i>Ehrharta longiflora</i>	Annual Veldt Grass			5/11/1998
<i>Ehrharta</i> sp.	Veldt Grass			7/05/1981

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<i>Einadia nutans</i> ssp.	Climbing Saltbush			26/11/1985
<i>Einadia nutans</i> ssp. <i>nutans</i>	Climbing Saltbush			8/11/2021
<i>Elymus scaber</i> var. <i>scaber</i> (NC)	Native Wheat-grass			4/11/1998
<i>Enchylaena tomentosa</i> var.	Ruby Saltbush			9/11/2021
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	Ruby Saltbush			9/11/2021
<i>Enneapogon nigricans</i>	Black-head Grass			1/10/1998
<i>Enneapogon</i> sp.	Bottle-washers/Nineawn			2/12/1999
<i>Eragrostis cilianensis</i>	Stink Grass			22/04/1955
<i>Eragrostis dielsii</i>	Mulka			1/10/1998
<i>Eremophila alternifolia</i>	Narrow-leaf Emubush			26/03/2008
<i>Eremophila behriana</i>	Rough Emubush			9/11/2021
<i>Eremophila crassifolia</i>	Thick-leaf Emubush			1/12/2002
<i>Eremophila deserti</i>	Turkey-bush			21/10/1998
<i>Eremophila gibbifolia</i>	Coccid Emubush		R	2/09/2016
<i>Eremophila glabra</i> ssp.	Tar Bush			8/11/2021
<i>Eremophila glabra</i> ssp. <i>glabra</i>	Tar Bush			25/03/2014
<i>Eremophila longifolia</i>	Weeping Emubush			13/05/2004
<i>Eremophila scoparia</i>	Broom Emubush			13/05/2004
<i>Eremophila subfloccosa</i> ssp. <i>lanata</i>	Woolly Emubush			12/04/1992
<i>Eremophila weldii</i>	Purple Emubush			23/10/1998
<i>Erigeron bonariensis</i>	Flax-leaf Fleabane			8/11/2021
<i>Erigeron</i> sp. (NC)	Fleabane			8/11/2021
<i>Eriochilus collinus</i> ssp. <i>sericeus</i>	Parson's Bands			23/03/2013
<i>Eriochiton sclerolaenoides</i>	Woolly-fruit Bluebush			18/10/1998
<i>Eriochlamys behrii</i>	Woolly Mantle			1/11/1963
<i>Erodium botrys</i>	Long Heron's-bill			18/10/1998
<i>Erodium cicutarium</i>	Cut-leaf Heron's-bill			1/10/1998
<i>Erodium crinitum</i>	Blue Heron's-bill			6/11/1998
<i>Erodium</i> sp.	Heron's-bill/Crowfoot			24/09/2003
<i>Eucalyptus brachycalyx</i>	Gilja			27/08/2014
<i>Eucalyptus cajuputea</i>	Green Mallee			5/01/1996
<i>Eucalyptus calcareana</i>	Nundroo Mallee			28/12/1989
<i>Eucalyptus calycogona</i> ssp.	Square-fruit Mallee			9/11/2021
<i>Eucalyptus calycogona</i> ssp. <i>calycogona</i>	Square-fruit Mallee			8/11/2021
<i>Eucalyptus calycogona</i> ssp. <i>spaffordii</i>	Spafford's Square-fruit Mallee		E	17/10/1977
<i>Eucalyptus calycogona</i> ssp. <i>trachybasis</i>	Square-fruit Mallee			15/07/1993
<i>Eucalyptus calycogona</i> var. <i>calycogona</i> (NC)	Square-fruit Mallee			13/05/2004
<i>Eucalyptus camaldulensis</i> ssp.	River Red Gum			20/11/1998
<i>Eucalyptus cretata</i>	Darke Peak Mallee		R	14/02/2002
<i>Eucalyptus diversifolia</i> (NC)	Coastal White Mallee			26/10/2000
<i>Eucalyptus diversifolia</i> ssp. <i>diversifolia</i>	Coastal White Mallee			28/06/1959
<i>Eucalyptus dumosa</i>	White Mallee			9/11/2021
<i>Eucalyptus dumosa</i> complex	White Mallee			2/06/1992

Species Name	Common Name	EPBC Act	NPW Act	Most Recent Obs.
<i>Eucalyptus dumosa</i> complex -- <i>Eucalyptus phenax</i> ssp.	White Mallee			28/11/2002
<i>Eucalyptus gracilis</i>	Yorrell			26/03/2008
<i>Eucalyptus incrassata</i>	Ridge-fruited Mallee			9/11/2021
<i>Eucalyptus leptophylla</i>	Narrow-leaf Red Mallee			9/11/2021
<i>Eucalyptus leptophylla</i> (NC)	Narrow-leaf Red Mallee			3/12/2002
<i>Eucalyptus leucoxylon</i> ssp. <i>leucoxylon</i>	South Australian Blue Gum			2/10/1944
<i>Eucalyptus odorata</i>	Peppermint Box			25/03/2014
<i>Eucalyptus odorata</i> (NC)	Peppermint Box			28/11/2002
<i>Eucalyptus oleosa</i> (NC)	Red Mallee			13/05/2004
<i>Eucalyptus oleosa</i> ssp.	(blank)			9/11/2021
<i>Eucalyptus oleosa</i> ssp. <i>ampliata</i>	Red Mallee			29/08/1983
<i>Eucalyptus oleosa</i> ssp. <i>oleosa</i>	Red Mallee			8/11/2021
<i>Eucalyptus peninsularis</i>	Merrit			14/08/2013
<i>Eucalyptus petiolaris</i>	Eyre Peninsula Blue Gum			25/03/2014
<i>Eucalyptus phenax</i> (NC)	Sessile-fruit White Mallee			4/12/2002
<i>Eucalyptus phenax</i> ssp.	(blank)			25/03/2014
<i>Eucalyptus phenax</i> ssp. <i>phenax</i>	White Mallee			1/10/2020
<i>Eucalyptus pileata</i>	Capped Mallee			25/10/2000
<i>Eucalyptus porosa</i>	Mallee Box			26/03/2008
<i>Eucalyptus rugosa</i>	Coastal White Mallee			30/10/1983
<i>Eucalyptus socialis</i> (NC)	Beaked Red Mallee			13/05/2004
<i>Eucalyptus socialis</i> ssp.	Beaked Red Mallee			25/03/2014
<i>Eucalyptus socialis</i> ssp. <i>socialis</i>	Beaked Red Mallee			9/11/2021
<i>Eucalyptus socialis</i> ssp. <i>victoriensis</i>	Victoria Desert Beaked Red Mallee			30/07/2014
<i>Eucalyptus socialis</i> ssp. <i>viridans</i>	Beaked Red Mallee			7/05/1987
<i>Eucalyptus</i> sp.	(blank)			8/11/2021
<i>Eucalyptus yalataensis</i>	Yalata Mallee			7/02/2016
<i>Eucalyptus yumbarrana</i>	Yumbarra Mallee			8/06/1970
<i>Euchiton involucratus</i> (NC)	Star Cudweed			1/02/1990
<i>Euchiton sphaericus</i>	Annual Cudweed			7/11/1998
<i>Euphorbia</i> sp. (NC)	Spurge			25/10/2000
<i>Euphorbia tannensis</i> ssp. <i>eremophila</i>	Desert Spurge			1/10/1998
<i>Euphorbia terracina</i>	False Caper			19/10/1998
<i>Eutaxia diffusa</i>	Large-leaf Eutaxia			5/11/1998
<i>Eutaxia microphylla</i>	Common Eutaxia			8/11/2021
<i>Eutaxia</i> sp.	Eutaxia			31/10/1986
<i>Exocarpos aphyllus</i>	Leafless Cherry			9/11/2021
<i>Exocarpos cupressiformis</i>	Native Cherry			14/09/1974
<i>Exocarpos</i> sp.	Native Cherry/Ballart			5/02/1984
<i>Exocarpos sparteus</i>	Slender Cherry			25/03/2014
<i>Exocarpos syrticola</i>	Coast Cherry			2/12/1999
<i>Gahnia deusta</i>	Limestone Saw-sedge			25/03/2014
<i>Gahnia lanigera</i>	Black Grass Saw-sedge			9/11/2021
<i>Galium gaudichaudii</i> (NC)	Rough Bedstraw			6/11/1998

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<i>Galium leptogonium</i>	Reflexed Bedstraw			6/11/1998
<i>Galium murale</i>	Small Bedstraw			6/11/1998
<i>Gazania linearis</i>	Gazania			11/02/2011
<i>Gazania sp.</i>	Gazania			1/01/2010
<i>Geijera linearifolia</i>	Sheep Bush			13/05/2004
<i>Genoplesium nigricans</i>	Black Midge-orchid			18/07/1991
<i>Geococcus pusillus</i>	Earth Cress			2/09/2016
<i>Geranium retrorsum</i>	Grassland Geranium			10/11/1998
<i>Geranium solanderi</i>	Austral Geranium			1/02/1990
<i>Glischrocaryon angustifolium</i>	Golden Pennants			1/02/1990
<i>Glischrocaryon behrii</i>	Golden Pennants			26/10/2000
<i>Glischrocaryon flavescens</i>	Yellow Pennants			1/10/1998
<i>Glischrocaryon sp.</i>	Golden Pennants			17/10/1983
<i>Glossostigma cleistanthum</i>	Spoon Mud-mat			23/09/1978
<i>Glossostigma sp.</i>	Mud-mat			1/02/1990
<i>Glycine rubiginosa</i>	Twining Glycine			1/10/1998
<i>Gnephosis drummondii</i>	Slender Golden-tip			23/05/1990
<i>Gnephosis tenuissima</i>	Dwarf Golden-tip			25/08/1983
<i>Gonocarpus elatus</i>	Hill Raspswort			29/10/1991
<i>Gonocarpus mezianus</i>	Broad-leaf Raspswort			25/03/2014
<i>Gonocarpus sp.</i>	Raspswort			8/11/2021
<i>Goodenia arguta</i>	Toothed Velleia			1/02/1990
<i>Goodenia benthamiana</i>	Bentham's Goodenia		R	8/11/2021
<i>Goodenia blackiana</i>	Native Primrose			18/07/1991
<i>Goodenia connata</i>	Cup Velleia			7/11/1998
<i>Goodenia havilandii</i>	Hill Goodenia			24/09/2003
<i>Goodenia ovata</i>	Hop Goodenia			2/12/1999
<i>Goodenia pinnatifida</i>	Cut-leaf Goodenia			6/11/1998
<i>Goodenia pusilliflora</i>	Small-flower Goodenia			8/11/2021
<i>Goodenia quasilibera</i>	(blank)			10/11/1998
<i>Goodenia robusta</i>	Woolly Goodenia			30/08/2007
<i>Goodenia varia</i>	Sticky Goodenia			3/12/2002
<i>Goodenia willisiana</i>	Silver Goodenia			9/11/2021
<i>Goodia medicaginea</i>	Western Golden-tip			1/10/1998
<i>Gramineae sp.</i>	Grass Family			2/12/1999
<i>Grammosolen dixonii</i>	(blank)			13/10/1984
<i>Grevillea aspera</i>	Rough Grevillea			24/09/2003
<i>Grevillea dilatata</i>	Holly-leaf Grevillea			21/09/1988
<i>Grevillea huegelii</i>	Comb Grevillea			9/11/2021
<i>Grevillea ilicifolia complex</i>	Holly-leaf Grevillea			28/11/2002
<i>Grevillea ilicifolia ssp. ilicifolia</i>	Holly-leaf Grevillea			12/09/1989
<i>Grevillea ilicifolia var. ilicifolia (NC)</i>	Holly-leaf Grevillea			3/12/2002
<i>Grevillea pterosperma</i>	Dune Grevillea			3/10/2002
<i>Gyrostemon australasicus</i>	Buckbush Wheel-fruit			3/10/2002

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<i>Gyrostemon ramulosus</i>	Bushy Wheel-fruit			27/08/2002
<i>Gyrostemon thesioides</i>	Broom Wheel-fruit			12/09/1989
<i>Haeckeria cassiniiformis</i>	Dogwood Haeckeria		R	16/12/1992
<i>Hakea cycloptera</i>	Elm-seed Hakea			25/03/2014
<i>Hakea francisiana</i>	Bottlebrush Hakea			1/12/2002
<i>Hakea leucoptera</i> ssp. <i>leucoptera</i>	Silver Needlewood			24/09/2003
<i>Hakea mitchellii</i>	Heath Needlebush			1/12/1999
<i>Hakea</i> sp.	Hakea/Needlewood			9/11/2021
<i>Hakea vittata</i>	Limestone Needlebush			1/02/1990
<i>Halgania andromedifolia</i>	Scented Blue-flower			4/12/2002
<i>Halgania cyanea</i>	Rough Blue-flower			25/03/2014
<i>Halgania</i> sp.	Blue-flower			17/10/1983
<i>Haloragis acutangula</i> f.	Smooth Raspwort			15/07/1991
<i>Haloragis aspera</i>	Rough Raspwort			5/11/1998
<i>Haloragis odontocarpa</i> f. <i>pterocarpa</i>	Mulga Nettle			6/02/1984
<i>Helianthus annuus</i>	Sunflower			24/07/2014
<i>Helichrysum leucopsidium</i>	Satin Everlasting			9/11/2021
<i>Helichrysum</i> sp.	Everlasting			26/11/1985
<i>Heliotropium asperum</i>	Rough Heliotrope			22/11/1952
<i>Hibbertia devitata</i>	Smooth Guinea-flower			3/12/2002
<i>Hibbertia paeninsularis</i>	Peninsula Guinea-flower			6/11/1998
<i>Hibbertia riparia</i>	Bristly Guinea-flower			25/03/2014
<i>Hibbertia riparia</i> (NC)	Guinea-flower			7/11/1998
<i>Hibbertia</i> sp.	Guinea-flower			9/08/1983
<i>Hibbertia virgata</i>	Twiggy Guinea-flower			3/12/2002
<i>Homoranthus homoranthoides</i>	Port Lincoln Ground-myrtle			18/11/1983
<i>Homoranthus wilhelmii</i>	Wilhelm's Homoranthus			3/10/2002
<i>Hordeum distichon</i>	(blank)			8/11/2021
<i>Hordeum glaucum</i>	Blue Barley-grass			13/05/2004
<i>Hordeum leporinum</i>	Wall Barley-grass			14/10/1998
<i>Hordeum vulgare</i>	Barley			9/11/2021
<i>Hordeum vulgare</i> ssp. (NC)	(blank)			1/12/1999
<i>Hyalosperma demissum</i>	Dwarf Sunray			24/09/2003
<i>Hyalosperma glutinosum</i> ssp. <i>glutinosum</i>	Golden Sunray			14/08/2008
<i>Hyalosperma semisterile</i>	Orange Sunray			2/09/2016
<i>Hydrocotyle callicarpa</i>	Tiny Pennywort			24/09/2003
<i>Hydrocotyle intertexta</i>	Buttercup Pennywort			24/09/2003
<i>Hydrocotyle rugulosa</i>	Mallee Pennywort			2/09/2016
<i>Hypochaeris glabra</i>	Smooth Cat's Ear			25/03/2014
<i>Hypochaeris radicata</i>	Rough Cat's Ear			6/11/1998
<i>Hypochaeris</i> sp.	Cat's Ear			8/11/2021
<i>Hypoxis</i> sp.	Yellow Star-lily			18/07/1991
<i>Hysterobaeckea behrii</i>	Silver Broombush			9/11/2021
<i>Indigofera australis</i> ssp. <i>hesperia</i>	Austral Indigo			5/09/2006

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<i>Indigofera helmsii</i>	Helm's Indigo			25/03/2014
<i>Indigofera</i> sp.	Indigo			12/04/1992
<i>Isoetopsis graminifolia</i>	Grass Cushion			1/02/1990
<i>Isolepis australiensis</i>	Southern Club-rush			1/02/1990
<i>Isolepis cernua</i>	Nodding Club-rush			21/10/1998
<i>Isolepis congrua</i>	Slender Club-rush			1/10/1998
<i>Isolepis hookeriana</i>	Grassy Club-rush			6/11/2011
<i>Isolepis marginata</i>	Little Club-rush			7/11/1998
<i>Isolepis platycarpa</i>	Flat-fruit Club-rush			6/11/2011
<i>Isolepis trachysperma</i>	Grassy Club-rush			1/10/1998
<i>Isotoma petraea</i>	Rock Isotome			1/10/1998
<i>Juncus aridicola</i>	Inland Rush			14/07/1993
<i>Juncus bufonius</i>	Toad Rush			1/10/1998
<i>Juncus kraussii</i>	Sea Rush			2/06/1992
<i>Juncus pallidus</i>	Pale Rush			8/11/2021
<i>Juncus</i> sp.	Rush			8/11/2021
<i>Juncus subsecundus</i>	Finger Rush			18/09/2000
<i>Kennedia prostrata</i>	Scarlet Runner			14/09/1974
<i>Lachnagrostis aemula</i>	Blown-grass			13/07/1993
<i>Lachnagrostis aemula</i> (NC)	Blown-grass			10/11/1998
<i>Lachnagrostis filiformis</i>	Common Blown-grass			23/10/1998
<i>Lactuca serriola</i> (NC)	Prickly Lettuce			6/11/1998
<i>Lactuca serriola</i> f.	Prickly Lettuce			8/11/2021
<i>Lagenophora gunniana</i>	Coarse Bottle-daisy			3/09/2016
<i>Lasiopetalum baueri</i>	Slender Velvet-bush			25/03/2014
<i>Lasiopetalum behrii</i>	Pink Velvet-bush			9/11/2021
<i>Lawrenzia glomerata</i>	Clustered Lawrenzia			12/04/1992
<i>Leiocarpa tomentosa</i>	Woolly Plover-daisy			26/11/1985
<i>Leontodon rhagadioloides</i>	Cretan Weed			21/10/1998
<i>Lepidium africanum</i>	Common Peppercross			8/11/2021
<i>Lepidium phlebopetalum</i>	Veined Peppercross			11/10/1969
<i>Lepidosperma carphoides</i>	Black Rapier-sedge			10/11/1998
<i>Lepidosperma concavum</i> (NC)	Spreading Sword-sedge			4/11/1998
<i>Lepidosperma congestum</i>	(blank)			1/08/2003
<i>Lepidosperma congestum</i> (NC)	Clustered Sword-sedge			23/10/1998
<i>Lepidosperma laeve</i>	(blank)			7/11/1998
<i>Lepidosperma semiteres</i>	Wire Rapier-sedge			26/11/1985
<i>Lepidosperma</i> sp.	Sword-sedge/Rapier-sedge			9/11/2021
<i>Lepidosperma viscidum</i>	Sticky Sword-sedge			9/11/2021
<i>Leptorhynchus elongatus</i>	Lanky Buttons		E	29/09/1989
<i>Leptorhynchus tetrachaetus</i>	Little Buttons			1/11/1963
<i>Leptospermum coriaceum</i>	Dune Tea-tree			1/12/2002
<i>Leucopogon</i> sp.	Beard-heath			1/02/1990
<i>Levenhookia dubia</i>	Hairy Stylewort			2/09/2016

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<i>Levenhookia stipitata</i>	(blank)		R	1/10/1998
<i>Lichen sp.</i>	(blank)			10/11/1998
<i>Limonium companyonis</i>	Sea-lavender			1/05/2010
<i>Limonium sinuatum</i>	Notch-leaf Sea-lavender			1/10/2015
<i>Limonium sp.</i>	Sea-lavender			2/12/1999
<i>Limosella granitica</i>	Granite Mudwort	VU	V	1/10/1998
<i>Limosella sp.</i>	Mudwort			1/02/1990
<i>Linum marginale</i>	Native Flax			10/11/1998
<i>Lobelia cleistogamoides</i>	(blank)		R	6/11/1998
<i>Lobelia gibbosa</i>	Tall Lobelia			8/07/1985
<i>Lobelia gibbosa</i> (NC)	Tall Lobelia			10/11/1998
<i>Logania crassifolia</i>	Coast Logania			4/06/1986
<i>Logania linifolia</i>	Flax-leaf Logania			7/11/1998
<i>Logania ovata</i>	Oval-leaf Logania			1/09/2016
<i>Lolium rigidum</i>	Wimmera Ryegrass			25/10/2000
<i>Lolium sp.</i>	Ryegrass			8/11/2021
<i>Lomandra collina</i>	Sand Mat-rush			3/12/2002
<i>Lomandra effusa</i>	Scented Mat-rush			9/11/2021
<i>Lomandra juncea</i>	Desert Mat-rush			1/07/1993
<i>Lomandra leucocephala ssp. robusta</i>	Woolly Mat-rush			9/11/2021
<i>Lomandra micrantha ssp.</i>	Small-flower Mat-rush			18/07/1985
<i>Lomandra micrantha ssp. micrantha</i>	Small-flower Mat-rush			10/11/1998
<i>Lomandra multiflora ssp. dura</i>	Hard Mat-rush			1/10/2020
<i>Lomandra sp.</i>	Mat-rush			2/12/1999
<i>Lotus cruentus</i>	Red-flower Lotus			2/10/1958
<i>Lycium australe</i>	Australian Boxthorn			4/11/1998
<i>Lycium ferocissimum</i>	African Boxthorn			25/03/2014
<i>Lysiana exocarpi ssp. exocarpi</i>	Harlequin Mistletoe			2/06/1992
<i>Lysimachia arvensis</i>	Pimpernel			24/09/2003
<i>Lythrum hyssopifolia</i>	Lesser Loosestrife			7/11/1998
<i>Machaerina juncea</i>	Bare Twig-rush			25/03/2014
<i>Maireana brevifolia</i>	Short-leaf Bluebush			9/11/2021
<i>Maireana enchylaenoides</i>	Wingless Fissure-plant			24/09/2003
<i>Maireana erioclada</i>	Rosy Bluebush			4/11/1998
<i>Maireana pentatropis</i>	Erect Mallee Bluebush			3/12/2002
<i>Maireana pyramidata</i>	Black Bluebush			8/11/2021
<i>Maireana radiata</i>	Radiate Bluebush			15/10/1998
<i>Maireana rohrlachii</i>	Rohrlach's Bluebush		R	7/11/1998
<i>Maireana sedifolia</i>	Bluebush			13/05/2004
<i>Maireana sp.</i>	Bluebush/Fissure-plant			20/09/1990
<i>Maireana suaedifolia</i>	Lax Bluebush		R	1/01/2010
<i>Maireana trichoptera</i>	Hairy-fruit Bluebush			8/11/2021
<i>Marrubium vulgare</i>	Horehound			8/11/2021
<i>Medicago minima</i>	Little Medic			10/11/1998

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<i>Medicago polymorpha</i>	Burr-medic			2/11/1998
<i>Medicago scutellata</i>	Snail Medic			2/11/1998
<i>Medicago truncatula</i>	Barrel Medic			6/11/1998
<i>Melaleuca acuminata</i> ssp. <i>acuminata</i>	Mallee Honey-myrtle			9/11/2021
<i>Melaleuca armillaris</i> ssp. <i>akineta</i>	Needle-leaf Honey-myrtle		R	24/09/2003
<i>Melaleuca brevifolia</i>	Short-leaf Honey-myrtle			1/10/2015
<i>Melaleuca decussata</i>	Totem-poles			7/11/1998
<i>Melaleuca eleuterostachya</i>	Hummock Honey-myrtle			9/11/2021
<i>Melaleuca lanceolata</i>	Dryland Tea-tree			9/11/2021
<i>Melaleuca lanceolata</i> ssp. <i>lanceolata</i> (NC)	Dryland Tea-tree			26/10/2000
<i>Melaleuca oxyphylla</i>	Pointed-leaf Honey-myrtle		R	4/12/2002
<i>Melaleuca pauperiflora</i> ssp. <i>mutica</i>	Boree			8/11/2021
<i>Melaleuca</i> sp.	Tea-tree			5/02/1984
<i>Melaleuca uncinata</i>	Broombush			9/11/2021
<i>Melaleuca uncinata</i> (NC)	Broombush			13/05/2004
<i>Mesembryanthemum crystallinum</i>	Common Iceplant			9/11/2021
<i>Mesembryanthemum guerichianum</i>	(blank)			8/11/2021
<i>Mesembryanthemum nodiflorum</i>	Slender Iceplant			9/11/2021
<i>Microcybe multiflora</i> ssp.	Small-leaf Microcybe			9/11/2021
<i>Microcybe multiflora</i> ssp. <i>multiflora</i>	Small-leaf Microcybe			4/12/2002
<i>Microcybe pauciflora</i> ssp. <i>pauciflora</i>	Yellow Microcybe			15/11/1990
<i>Microseris walteri</i>	Yam Daisy			10/11/1998
<i>Microtis arenaria</i>	Notched Onion-orchid			21/10/1998
<i>Millotia muelleri</i>	Common Bow-flower			14/08/2008
<i>Millotia myosotidifolia</i>	Broad-leaf Millotia			24/09/2003
<i>Millotia perpusilla</i>	Tiny Bow-flower			17/09/2000
<i>Millotia tenuifolia</i> var.	Soft Millotia			1/09/2016
<i>Millotia tenuifolia</i> var. <i>tenuifolia</i>	Soft Millotia			5/09/2006
<i>Minuria annua</i>	Annual Minuria			8/11/2021
<i>Minuria leptophylla</i>	Minnie Daisy			8/11/2021
<i>Monoculus monstrosus</i>	Tripteris			21/10/1998
<i>Moraea setifolia</i>	Thread Iris			24/09/2003
<i>Moss</i> sp.	(blank)			10/11/1998
<i>Muehlenbeckia adpressa</i>	Climbing Lignum			2/12/2002
<i>Muehlenbeckia diclina</i> ssp. <i>diclina</i>	Twiggy Lignum			5/09/2006
<i>Myoporum brevipes</i>	Warty Boobialla			3/02/1962
<i>Myoporum platycarpum</i> ssp.	False Sandalwood			13/05/2004
<i>Myoporum platycarpum</i> ssp. <i>platycarpum</i>	False Sandalwood			4/12/2002
<i>Myoporum</i> sp.	(blank)			8/11/2021
<i>Neurachne alopecuroidea</i>	Fox-tail Mulga-grass			1/10/2020
<i>Nicotiana goodspeedii</i>	Small-flower Tobacco			24/11/2009
<i>Nicotiana maritima</i>	Coast Tobacco			27/08/1995
<i>Nicotiana rosulata</i> ssp.	(blank)			24/09/2003
<i>Nicotiana velutina</i>	Velvet Tobacco			27/08/1995

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<i>Nitraria billardierei</i>	Nitre-bush			13/05/2004
<i>Not naturalised in SA sp.</i>	(blank)			2/12/1999
<i>Oenothera stricta ssp. stricta</i>	Common Evening Primrose			2/12/1999
<i>Olax obcordata</i>	(blank)		R	16/10/1986
<i>Olearia adenolasia</i>	Musk Daisy-bush		R	9/11/2021
<i>Olearia brachyphylla</i>	Short-leaf Daisy-bush			2/11/1998
<i>Olearia ciliata var.</i>	Fringed Daisy-bush			1/10/2020
<i>Olearia ciliata var. ciliata</i>	Fringed Daisy-bush			3/10/2002
<i>Olearia decurrens</i>	Winged Daisy-bush			9/11/2021
<i>Olearia floribunda</i>	Heath Daisy-bush			8/11/2021
<i>Olearia lepidophylla</i>	Clubmoss Daisy-bush			9/11/2021
<i>Olearia minor</i>	Heath Daisy-bush			4/12/2002
<i>Olearia muelleri</i>	Mueller's Daisy-bush			9/11/2021
<i>Olearia passerinoides ssp. passerinoides</i>	Feather Daisy-bush			12/04/1992
<i>Olearia picridifolia</i>	Rasp Daisy-bush		R	6/10/1956
<i>Olearia pimeleoides</i>	Pimelea Daisy-bush			12/04/1992
<i>Olearia ramulosa</i>	Twiggy Daisy-bush			2/12/2002
<i>Olearia rudis</i>	Azure Daisy-bush			16/12/1992
<i>Olearia sp.</i>	Daisy-bush			18/06/1986
<i>Oligocarpus calendulaceus</i>	(blank)			24/09/2003
<i>Omphalolappula concava</i>	Burr Stickseed			4/11/1998
<i>Opercularia scabrida</i>	Stalked Stinkweed			7/11/1998
<i>Opercularia turpis</i>	Twiggy Stinkweed			27/07/2011
<i>Opercularia varia</i>	Variable Stinkweed			26/11/1985
<i>Ophioglossum lusitanicum</i>	Austral Adder's-tongue			24/09/2003
<i>Opuntia ficus-indica</i>	Indian Fig			21/11/1985
<i>Opuntia puberula</i>	(blank)			21/02/1985
<i>Orbea variegata</i>	Carrion-flower			14/04/1983
<i>Orchidaceae sp.</i>	Orchid Family			8/07/1985
<i>Orianthera nuda</i>	Leafless Logania			16/12/1992
<i>Orthoceras strictum</i>	Horned Orchid			1/12/1981
<i>Oxalis perennans</i>	Native Sorrel			6/11/1998
<i>Oxalis perennans/exilis</i>	Native Oxalis			25/03/2014
<i>Oxalis radicata</i>	Downy Native Sorrel			8/11/2021
<i>Ozothamnus decurrens</i>	Ridged Bush-everlasting			4/12/2002
<i>Ozothamnus retusus</i>	Notched Bush-everlasting			9/11/2021
<i>Parapholis incurva</i>	Curly Ryegrass			18/10/1998
<i>Parietaria debilis</i>	Smooth-nettle			27/08/1995
<i>Parietaria debilis (NC)</i>	Smooth-nettle			1/02/1990
<i>Paspalum sp.</i>	(blank)			20/11/1998
<i>Paspalum vaginatum</i>	Salt-water Couch			2/12/1999
<i>Pauridia glabella var. glabella</i>	Tiny Star			24/09/2003
<i>Pelargonium australe (NC)</i>	Austral Stork's-bill			7/11/1998
<i>Pelargonium littorale</i>	Native Pelargonium			29/10/1991

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<i>Pelargonium sp.</i>	Storks-bill			12/04/1992
<i>Pentameris airoides ssp. airoides</i>	False Hair-grass			24/09/2003
<i>Persicaria prostrata</i>	Creeping Knotweed			7/11/1998
<i>Petrorhagia dubia</i>	Velvet Pink			5/11/1998
<i>Phebalium bullatum</i>	Silvery Phebalium			9/11/2021
<i>Pheladenia deformis</i>	Bluebeard Orchid			1/02/1990
<i>Philotheca angustifolia ssp. angustifolia</i>	Narrow-leaf Wax-flower		R	2/09/2016
<i>Phyla canescens</i>	Lippia			11/09/2018
<i>Phyllangium divergens</i>	Wiry Mitrewort			6/11/1998
<i>Phyllota remota</i>	Slender Phyllota			7/11/1998
<i>Pigea floribunda</i>	Shrub Spade Flower			7/11/1998
<i>Pigea monopetala</i>	Slender Spade Flower			1/10/1998
<i>Pimelea flava ssp. dichotoma</i>	Diosma Riceflower			28/11/2002
<i>Pimelea glauca</i>	Smooth Riceflower			30/10/1991
<i>Pimelea imbricata var. petraea</i>	Rock Woolly Riceflower			1/10/1998
<i>Pimelea micrantha</i>	Silky Riceflower			10/11/1998
<i>Pimelea microcephala ssp.</i>	Shrubby Riceflower			31/10/1986
<i>Pimelea microcephala ssp. microcephala</i>	Shrubby Riceflower			17/01/1959
<i>Pimelea octophylla</i>	Woolly Riceflower			7/11/1998
<i>Pimelea sp.</i>	Riceflower			8/11/2021
<i>Pimelea stricta</i>	Erect Riceflower			3/09/2016
<i>Pimelea subvillifera</i>	Silky Riceflower			16/12/1992
<i>Pimelea williamsonii</i>	Williamson's Riceflower		R	7/11/1998
<i>Pinus sp.</i>	Pine			2/12/1999
<i>Piptatherum miliaceum</i>	Rice Millet			2/12/1999
<i>Pittosporum angustifolium</i>	Native Apricot			25/03/2014
<i>Plantago coronopus ssp.</i>	Bucks-horn Plantain			1/10/1998
<i>Plantago drummondii</i>	Dark Plantain			7/11/1998
<i>Plantago hispida</i>	Hairy Plantain			27/10/1983
<i>Plantago sp.</i>	Plantain			1/12/1999
<i>Plantago sp. B (R.Bates 44765)</i>	Little Plantain			24/09/2003
<i>Platysace heterophylla var.</i>	Slender Platysace			4/06/1986
<i>Platysace heterophylla var. heterophylla</i>	Slender Platysace			3/12/2002
<i>Poa annua</i>	Winter Grass			15/09/1974
<i>Poa annua (NC)</i>	Winter Grass			1/01/1987
<i>Poa clelandii</i>	Matted Tussock-grass			6/11/1998
<i>Poa crassicaudex</i>	Thick-stem Tussock-grass			5/11/1998
<i>Poa drummondiana</i>	Knotted Poa		R	29/09/1989
<i>Poa labillardieri var. labillardieri</i>	Common Tussock-grass			10/11/1998
<i>Poa sp.</i>	Meadow-grass/Tussock-grass			8/11/2021
<i>Podolepis capillaris</i>	Wiry Podolepis			8/11/2021
<i>Podolepis muelleri</i>	Button Podolepis		V	2/10/1990
<i>Podolepis rugata var. rugata (NC)</i>	Pleated Copper-wire Daisy			23/10/1998
<i>Podolepis tepperi</i>	Delicate Copper-wire Daisy			10/11/1998

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<i>Podotheca angustifolia</i>	Sticky Long-heads			1/12/2002
<i>Pogonolepis muelleriana</i>	Stiff Cup-flower			7/11/1998
<i>Polycarpon tetraphyllum</i>	Four-leaf Allseed			1/10/1998
<i>Polygonum aviculare</i>	Wireweed			1/05/1979
<i>Polygonum aviculare</i> (NC)	Wireweed			5/11/1998
<i>Polygonum plebeium</i>	Small Knotweed			7/11/1998
<i>Pomaderris flabellaris</i>	Fan Pomaderris			4/11/1998
<i>Pomaderris obcordata</i>	Wedge-leaf Pomaderris			28/11/2002
<i>Pomaderris paniculosa</i> ssp.	(blank)			30/10/1991
<i>Pomaderris paniculosa</i> ssp. <i>paniculosa</i>	Mallee Pomaderris			21/10/1998
<i>Poranthera microphylla</i>	Small Poranthera			6/11/1998
<i>Poranthera microphylla</i> (NC)	Small Poranthera			7/11/1998
<i>Poranthera triandra</i>	Three-petal Poranthera			7/11/1998
<i>Prasophyllum elatum</i>	Tall Leek-orchid			7/11/1998
<i>Prasophyllum fecundum</i>	Self-pollinating Leek-orchid		R	2/10/1998
<i>Prasophyllum occidentale</i>	Plains Leek-orchid			24/09/2003
<i>Prasophyllum occultans</i>	Hidden Leek-orchid		R	6/10/1989
<i>Prasophyllum odoratum</i>	Scented Leek-orchid			10/11/1998
<i>Prasophyllum odoratum</i> (NC)	Scented Leek-orchid			10/11/1998
<i>Prasophyllum</i> sp.	Leek-orchid			24/09/2003
<i>Prostanthera ammophila</i>	Sand Mintbush			16/12/1992
<i>Prostanthera aspalathoides</i>	Scarlet Mintbush			9/11/2021
<i>Prostanthera serpyllifolia</i> ssp.	Thyme Mintbush			15/07/1991
<i>Prostanthera serpyllifolia</i> ssp. <i>microphylla</i>	Small-leaf Mintbush			25/03/2014
<i>Prostanthera serpyllifolia</i> ssp. <i>microphylla</i> (purplish-green flowers)	Small-leaf Mintbush			23/10/1998
<i>Prostanthera serpyllifolia</i> ssp. <i>serpyllifolia</i>	Thyme Mintbush			3/10/2002
<i>Prostanthera serpyllifolia</i> ssp. <i>serpyllifolia</i> (purplish-green flowers)	Thyme Mintbush			3/10/2002
<i>Prostanthera serpyllifolia</i> ssp. <i>serpyllifolia</i> (red flowers)	Thyme Mintbush			5/11/1998
<i>Pseudognaphalium luteoalbum</i>	Jersey Cudweed			8/11/2021
<i>Pterostylis biseta</i>	Two-bristle Greenhood			2/11/1998
<i>Pterostylis biseta</i> (NC)	Two-bristle Greenhood			10/11/1998
<i>Pterostylis boormanii</i>	Boorman's Greenhood			24/09/2003
<i>Pterostylis dolichochila</i>	Mallee Shell-orchid			14/07/1993
<i>Pterostylis excelsa</i>	Dryland Greenhood			9/11/1998
<i>Pterostylis excelsa</i> (NC)	Dryland Greenhood			9/11/1998
<i>Pterostylis mirabilis</i>	Mount Olinthus Greenhood	VU	V*	1/12/2000
<i>Pterostylis mutica</i>	Midget Greenhood			6/11/1998
<i>Pterostylis nana</i>	Dwarf Greenhood			10/11/1998
<i>Pterostylis plumosa</i>	Bearded Greenhood			1/09/2000
<i>Pterostylis pusilla</i>	Small Rusty-hood			7/11/1998
<i>Pterostylis sanguinea</i>	Blood Greenhood			18/07/1991
<i>Pterostylis</i> sp.	Greenhood			24/09/2003

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<i>Ptilotus exaltatus</i>	Pink Mulla Mulla			26/11/1985
<i>Ptilotus nobilis ssp. nobilis (NC)</i>	Yellow-tails			12/04/1992
<i>Ptilotus obovatus</i>	Silver Mulla Mulla			8/11/2021
<i>Ptilotus seminudus</i>	Rabbit-tails			16/10/2007
<i>Ptilotus spathulatus</i>	Pussy-tails			9/11/2021
<i>Pultenaea acerosa</i>	Bristly Bush-pea			13/11/1990
<i>Pultenaea tenuifolia</i>	Narrow-leaf Bush-pea			2/10/2010
<i>Pultenaea teretifolia var. teretifolia</i>	Terete-leaf Bush-pea			6/11/1998
<i>Pultenaea trinervis</i>	Three-nerve Bush-pea			7/11/1998
<i>Pyrorchis nigricans</i>	Black Fire-orchid			7/11/1998
<i>Quinetia urvillei</i>	Quinetia			30/08/2007
<i>Ranunculus sessiliflorus var. sessiliflorus</i>	Annual Buttercup			2/09/2016
<i>Ranunculus sp.</i>	Buttercup			1/02/1990
<i>Rapistrum rugosum ssp. rugosum</i>	Turnip Weed			6/11/1998
<i>Reichardia tingitana</i>	False Sowthistle			6/11/1998
<i>Rhagodia candolleana ssp. candolleana</i>	Sea-berry Saltbush			4/12/2002
<i>Rhagodia crassifolia</i>	Fleshy Saltbush			13/05/2004
<i>Rhagodia parabolica</i>	Mealy Saltbush			13/05/2004
<i>Rhagodia preissii ssp. preissii</i>	Mallee Saltbush			9/11/2021
<i>Rhagodia sp.</i>	Saltbush			8/11/2021
<i>Rhagodia spinescens</i>	Spiny Saltbush			1/10/2020
<i>Rhagodia ulicina</i>	Intricate Saltbush			3/12/2002
<i>Rhodanthe laevis</i>	Smooth Daisy			4/09/2016
<i>Rhodanthe polygalifolia</i>	Milkwort Everlasting			2/09/2016
<i>Rhodanthe pygmaea</i>	Pigmy Daisy			14/08/2008
<i>Rhodanthe sp.</i>	Everlasting			9/11/2021
<i>Rhodanthe stuartiana</i>	Clay Everlasting			3/10/1958
<i>Rinzia orientalis</i>	Desert Heath-myrtle			9/11/2021
<i>Roepera angustifolia</i>	Scrambling Twinleaf			6/11/1998
<i>Roepera apiculata</i>	Pointed Twinleaf			8/11/2021
<i>Roepera aurantiaca ssp.</i>	Shrubby Twinleaf			13/05/2004
<i>Roepera aurantiaca ssp. aurantiaca</i>	Shrubby Twinleaf			8/11/2021
<i>Roepera confluens</i>	Forked Twinleaf			8/11/2021
<i>Roepera glauca</i>	Pale Twinleaf			7/11/1998
<i>Roepera ovata</i>	Dwarf Twinleaf			6/11/1998
<i>Roepera sp.</i>	Twinleaf			1/12/1999
<i>Romulea rosea var. australis</i>	Common Onion-grass			8/11/2021
<i>Romulea sp.</i>	Onion-grass			18/07/1991
<i>Rostraria cristata</i>	Annual Cat's-tail			6/11/1998
<i>Rumex hypogaeus</i>	Three-corner Jack			1/02/1990
<i>Rumex sp.</i>	Dock			1/12/1999
<i>Rytidosperma caespitosum</i>	Common Wallaby-grass			8/11/2021
<i>Rytidosperma caespitosum (NC)</i>	Common Wallaby-grass			10/11/1998
<i>Rytidosperma erianthum</i>	Hill Wallaby-grass			2/11/1998

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<i>Rytidosperma setaceum</i>	Small-flower Wallaby-grass			8/11/2021
<i>Rytidosperma sp.</i>	Wallaby-grass			9/11/2021
<i>Sagina apetala</i>	Annual Pearlwort			1/10/1998
<i>Sagina maritima</i>	Sea Pearlwort			26/10/1983
<i>Salicornia blackiana</i>	Thick-head Samphire			18/07/1991
<i>Salicornia quinqueflora ssp. quinqueflora</i>	Beaded Samphire			4/04/2017
<i>Salsola australis</i>	Buckbush			9/11/2021
<i>Salvia verbenaca var.</i>	Wild Sage			13/05/2004
<i>Santalum acuminatum</i>	Quandong			9/11/2021
<i>Santalum murrayanum</i>	Bitter Quandong			4/12/2002
<i>Santalum sp.</i>	(blank)			5/02/1984
<i>Santalum spicatum</i>	Sandalwood		V	21/04/2016
<i>Sarcozona praecox</i>	Sarcozona			9/11/2021
<i>Scaevola aemula</i>	Fairy Fanflower			7/11/1998
<i>Scaevola humilis</i>	Inland Fanflower			7/11/1998
<i>Scaevola linearis ssp. linearis</i>	Rough Fanflower			4/10/2002
<i>Scaevola spinescens</i>	Spiny Fanflower			7/11/1998
<i>Schenkia australis</i>	Spike Centaury			16/12/1992
<i>Schinus molle</i>	Pepper-tree			20/11/1998
<i>Schismus barbatus</i>	Arabian Grass			18/10/1998
<i>Schoenus apogon</i>	Common Bog-rush			6/11/1998
<i>Schoenus breviculmis</i>	Matted Bog-rush			25/03/2014
<i>Schoenus nanus</i>	Little Bog-rush			24/09/2003
<i>Schoenus racemosus</i>	Sandhill Bog-rush			3/12/2002
<i>Schoenus sculptus</i>	Gimlet Bog-rush		R	21/10/1998
<i>Schoenus sp.</i>	Bog-rush			1/02/1990
<i>Schoenus subaphyllus</i>	Desert Bog-rush			10/11/1998
<i>Scleranthus minusculus</i>	Cushion Knawel			10/11/1998
<i>Scleranthus pungens</i>	Prickly Knawel			1/10/1998
<i>Sclerolaena diacantha</i>	Grey Bindyi			9/11/2021
<i>Sclerolaena eriacantha</i>	Silky Bindyi			8/11/2021
<i>Sclerolaena obliquicuspis</i>	Oblique-spined Bindyi			13/05/2004
<i>Sclerolaena parviflora</i>	Small-flower Bindyi			15/10/1998
<i>Sclerostegia sp. (NC)</i>	Samphire			18/07/1991
<i>Senecio gawlerensis</i>	Gawler Ranges Groundsel		R	16/10/2007
<i>Senecio glossanthus</i>	Annual Groundsel			4/11/1998
<i>Senecio glossanthus (NC)</i>	Annual Groundsel			10/11/1998
<i>Senecio lacustrinus</i>	(blank)			1/10/1980
<i>Senecio picridioides</i>	Purple-leaf Groundsel			6/11/1998
<i>Senecio pinnatifolius (NC)</i>	Variable Groundsel			10/11/1998
<i>Senecio pterophorus</i>	African Daisy			25/03/2014
<i>Senecio quadridentatus</i>	Cotton Groundsel			8/11/2021
<i>Senecio sp.</i>	Groundsel			1/02/1990
<i>Senecio spanomerus</i>	Native Groundsel			8/11/2021

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<i>Senna artemisioides ssp.</i>	Desert Senna			20/11/1998
<i>Senna artemisioides ssp. filifolia</i>	Fine-leaf Desert Senna			25/03/2014
<i>Senna artemisioides ssp. petiolaris</i>	(blank)			26/03/2008
<i>Senna artemisioides ssp. petiolaris (NC)</i>	Flat-stalk Senna			13/05/2004
<i>Senna artemisioides ssp. X coriacea</i>	Broad-leaf Desert Senna			8/11/2021
<i>Setaria constricta</i>	Knotty-butt Paspalidium			7/11/1998
<i>Sida corrugata var.</i>	Corrugated Sida			5/11/1998
<i>Sida petrophila</i>	Rock Sida			14/09/1974
<i>Silene apetala</i>	Sand Catchfly			2/11/1998
<i>Silene gallica var. gallica</i>	French Catchfly			2/10/1998
<i>Silene nocturna</i>	Mediterranean Catchfly			24/09/2003
<i>Silene sp.</i>	Catchfly			24/09/2003
<i>Silene tridentata</i>	Spanish Catchfly			10/11/1998
<i>Siloxerus multiflorus</i>	Small Wrinklewort			24/09/2003
<i>Sisymbrium erysimoides</i>	Smooth Mustard			9/11/2021
<i>Sisymbrium orientale</i>	Indian Hedge Mustard			2/11/1998
<i>Sisymbrium sp.</i>	Wild Mustard			2/12/1999
<i>Sisylx atropurpurea</i>	Pincushion			1/12/1999
<i>Solanum coactiliferum</i>	Tomato-bush			20/11/1998
<i>Solanum elaeagnifolium</i>	Silver-leaf Nightshade			1/05/2010
<i>Solanum hystrix</i>	Afghan Thistle			17/03/1972
<i>Solanum nigrum</i>	Black Nightshade			8/11/2021
<i>Solanum petrophilum</i>	Rock Nightshade			28/08/1967
<i>Solanum simile</i>	Kangaroo Apple			7/11/1998
<i>Solanum sp.</i>	Nightshade/Potato-bush			12/04/1992
<i>Solanum triflorum</i>	Three-flower Nightshade			7/03/2016
<i>Sonchus asper ssp. glaucescens</i>	Rough Sow-thistle			1/10/1998
<i>Sonchus oleraceus</i>	Common Sow-thistle			8/11/2021
<i>Sonchus sp.</i>	Sow-thistle			13/05/2004
<i>Sorghum halepense</i>	Johnson Grass			4/04/2017
<i>Spartium junceum</i>	Spanish Broom			27/08/1995
<i>Spergularia diandra</i>	Lesser Sand-spurrey			2/11/1998
<i>Spergularia diandra (NC)</i>	Lesser Sand-spurrey			2/11/1998
<i>Spergularia rubra</i>	Red Sand-spurrey			8/11/2021
<i>Spergularia rubra (NC)</i>	Red Sand-spurrey			2/11/1998
<i>Spyridium bifidum ssp. bifidum</i>	Marble Range Spyridium		V	9/11/2021
<i>Spyridium bifidum var.</i>	(blank)			15/07/1991
<i>Spyridium bifidum var. bifidum (NC)</i>	Forked Spyridium			9/11/1998
<i>Spyridium bifidum var. Wanilla (K.Clipstone 88) (NC)</i>	Wanilla Spyridium		V	7/03/1991
<i>Spyridium daphnoides</i>	Spoon-leaved Spyridium		R	2/06/1992
<i>Spyridium eriocephalum var. eriocephalum (NC)</i>	Heath Spyridium			7/12/1993
<i>Spyridium erymnocladum</i>	Cloaked Spyridium		R	6/10/1995
<i>Spyridium sp.</i>	Spyridium			8/07/1985

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<i>Spyridium stenophyllum</i> ssp. <i>renovatum</i>	Forked Spyridium			4/10/2013
<i>Spyridium stenophyllum</i> ssp. <i>stenophyllum</i>	Forked Spyridium			21/09/1988
<i>Spyridium subochreatum</i>	Velvet Spyridium			31/10/1986
<i>Spyridium subochreatum</i> var. <i>subochreatum</i> (NC)	Velvet Spyridium			7/11/1998
<i>Stackhousia aspericocca</i> ssp.	Bushy Candles			30/10/1991
<i>Stackhousia aspericocca</i> ssp. <i>One-sided inflorescence</i> (W.R.Barker 697)	One-sided Candles			1/10/1998
<i>Stackhousia monogyna</i>	Creamy Candles			5/09/2006
<i>Stackhousia monogyna</i> (NC)	Creamy Candles			24/09/2003
<i>Stackhousia muricata</i> ssp. <i>Perennial</i> (W.R.Barker 3641)	Yellow Candles			24/09/2003
<i>Stackhousia subterranea</i>	Creamy Candles			24/10/1977
<i>Stellaria filiformis</i>	Thread Starwort			2/09/2016
<i>Stellaria media</i>	Chickweed			18/10/1998
<i>Stenanthemum leucophractum</i>	White Cryptandra			10/11/1998
<i>Stenanthemum notiale</i> ssp. <i>notiale</i>	Trident Spyridium			23/10/1998
<i>Stenantha conostephioides</i>	Flame Heath			25/03/2014
<i>Stenopetalum lineare</i>	Narrow Thread-petal			6/11/1998
<i>Stenopetalum lineare</i> (NC)	Narrow Thread-petal			7/11/1998
<i>Stenopetalum sphaerocarpaceum</i>	Round-fruit Thread-petal			24/09/2003
<i>Stylidium calcaratum</i>	Spurred Trigger-plant			1/10/1998
<i>Stylidium inundatum</i> (NC)	Hundreds And Thousands			1/10/1998
<i>Stypandra glauca</i>	Nodding Grass-lily		V	1/10/1998
<i>Styphelia cordifolia</i>	Heart-leaf Beard-heath			9/11/2021
<i>Styphelia humifusa</i>	Cranberry Heath			9/11/2021
<i>Styphelia rufa</i>	Ruddy Beard-heath			7/11/1998
<i>Styphelia woodsii</i>	Nodding Beard-heath			23/05/1990
<i>Suaeda baccifera</i>	Seablite			2/05/2010
<i>Swainsona microphylla</i>	Small-leaf Swainson-pea			4/09/2011
<i>Swainsona pyrophila</i>	Yellow Swainson-pea	VU	R	7/11/1998
<i>Tamarix aphylla</i> (NC)	Athel Pine			20/11/1998
<i>Tamarix ramosissima</i>	(blank)			2/10/1998
<i>Tecticornia halocnemoides</i> ssp. <i>halocnemoides</i>	Grey Samphire			18/07/1991
<i>Tecticornia indica</i> ssp. <i>bidens</i>	Brown-head Samphire			11/09/2018
<i>Tecticornia indica</i> ssp. <i>leiostachya</i>	Brown-head Samphire			3/12/2002
<i>Tecticornia pergranulata</i> ssp. <i>pergranulata</i>	Black-seed Samphire			3/12/2002
<i>Templetonia retusa</i>	Cockies Tongue			29/10/1991
<i>Templetonia rossii</i>	Flat Mallee-pea			7/11/1998
<i>Teucrium sessiliflorum</i>	Mallee Germander			24/11/2009
<i>Thelymitra alcockiae</i>	Scented Sun-orchid			14/09/1974
<i>Thelymitra antennifera</i>	Lemon Sun-orchid			2/10/1990
<i>Thelymitra azurea</i>	Azure Sun-orchid			14/09/1974
<i>Thelymitra luteocilium</i>	Yellow-tuft Sun Orchid			24/09/2003
<i>Thelymitra nuda</i>	(blank)			9/11/1998

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<i>Thelymitra nuda</i> (NC)	Scented Sun-orchid			24/09/2003
<i>Thelymitra pauciflora</i>	Slender Sun-orchid			2/10/1998
<i>Thelymitra pauciflora</i> (NC)	Slender Sun-orchid			1/02/1990
<i>Thelymitra pauciflora complex</i>	(blank)			24/09/2003
<i>Thelymitra</i> sp.	Sun-orchid			4/06/1986
<i>Themeda triandra</i>	Kangaroo Grass			25/03/2014
<i>Thinopyrum elongatum</i>	Tall Wheat-grass			4/04/2017
<i>Threlkeldia diffusa</i>	Coast Bonefruit			7/11/1998
<i>Thryptomene micrantha</i>	Ribbed Thryptomene			2/12/2002
<i>Thysanotus baueri</i>	Mallee Fringe-lily			10/11/1998
<i>Thysanotus patersonii</i>	Twining Fringe-lily			24/09/2003
<i>Thysanotus</i> sp.	Fringe-lily			16/12/1992
<i>Thysanotus wangariensis</i>	Eyre Peninsula Fringe-lily		R	16/11/1983
<i>Trachymene cyanopetala</i>	Purple Trachymene			14/08/2008
<i>Trachymene ornata</i>	Cotton-ball Trachymene			24/09/2003
<i>Trachymene ornata</i> var. <i>ornata</i> (NC)	Sponge-fruit Trachymene			5/11/1998
<i>Trachymene pilosa</i>	Dwarf Trachymene			7/11/1998
<i>Trachymene</i> sp.	Trachymene			7/12/1993
<i>Tricoryne elatior</i>	Yellow Rush-lily			29/10/1991
<i>Tricoryne tenella</i>	Tufted Yellow Rush-lily			10/11/1998
<i>Trifolium angustifolium</i>	Narrow-leaf Clover			4/11/1998
<i>Trifolium arvense</i> var. <i>arvense</i>	Hare's-foot Clover			8/11/2021
<i>Trifolium campestre</i>	Hop Clover			5/11/1998
<i>Trifolium glomeratum</i>	Cluster Clover			2/11/1998
<i>Trifolium hirtum</i>	Rose Clover			6/11/1998
<i>Trifolium tomentosum</i>	Woolly Clover			1/10/1998
<i>Triglochin calcitrapum</i> (NC)	Spurred Arrowgrass			24/09/2003
<i>Triglochin centrocarpum</i> (NC)	Dwarf Arrowgrass			24/09/2003
<i>Triglochin isingiana</i>	Spurred Arrowgrass			26/10/1983
<i>Triodia bunicola</i> (NC)	Flinders Ranges Spinifex			7/11/1998
<i>Triodia irritans</i>	Spinifex			25/03/2014
<i>Triodia irritans complex</i>	Spinifex			3/06/1992
<i>Triodia lanata</i>	Woolly Spinifex			1/10/2020
<i>Triodia scariosa</i>	Spinifex			9/11/2021
<i>Triodia scariosa</i> (NC)	Spinifex			7/11/1998
<i>Triodia scariosa</i> ssp. (NC)	Spinifex			13/05/2004
<i>Triodia</i> sp.	Spinifex			9/11/2021
<i>Triodia</i> sp. (NC)	Spinifex			2/12/1999
<i>Triptilodiscus pygmaeus</i>	Small Yellow-heads			10/11/1998
<i>Triticum aestivum</i>	Wheat			1/12/1999
<i>Trymalium wayi</i>	Grey Trymalium			29/08/1983
<i>Tulostoma berterianum</i>	(blank)			22/07/2016
<i>Urospermum picroides</i>	False Hawkbit			24/09/2003
<i>Ursinia anthemoides</i>	(blank)			6/11/2011

Species Name	Common Name	EPBC Act	NPW Act	Most Recent Obs.
<i>Vicia cracca</i>	Tufted Vetch			29/09/1989
<i>Vittadinia australasica</i> var. <i>australasica</i>	Sticky New Holland Daisy			16/12/1992
<i>Vittadinia cervicalis</i> var. <i>cervicalis</i>	Waisted New Holland Daisy			7/11/1998
<i>Vittadinia cuneata</i> var.	Fuzzy New Holland Daisy			9/11/2021
<i>Vittadinia cuneata</i> var. <i>cuneata</i>	Fuzzy New Holland Daisy			10/11/1998
<i>Vittadinia dissecta</i> var. <i>hirta</i>	Dissected New Holland Daisy			25/03/2014
<i>Vittadinia gracilis</i>	Woolly New Holland Daisy			8/11/2021
<i>Vittadinia</i> sp.	New Holland Daisy			18/07/1991
<i>Vulpia muralis</i>	Wall Fescue			10/11/1998
<i>Vulpia myuros</i> f. <i>myuros</i>	Rat's-tail Fescue			3/12/2002
<i>Vulpia</i> sp.	Fescue			9/11/2021
<i>Wahlenbergia communis</i>	Tufted Bluebell			7/11/1998
<i>Wahlenbergia gracilentia</i>	Annual Bluebell			8/11/2021
<i>Wahlenbergia luteola</i>	Yellow-wash Bluebell			6/11/1998
<i>Wahlenbergia multicaulis</i>	Tadgell's Bluebell			2/10/1958
<i>Wahlenbergia preissii</i>	(blank)			7/11/1998
<i>Wahlenbergia</i> sp.	Native Bluebell			9/11/2021
<i>Wahlenbergia stricta</i> ssp. <i>stricta</i>	Tall Bluebell			24/09/2003
<i>Waitzia acuminata</i> var. <i>acuminata</i>	Orange Immortelle			6/10/2020
<i>Westringia eremicola</i>	Slender Westringia			7/11/1998
<i>Westringia rigida</i>	Stiff Westringia			8/11/2021
<i>Wilsonia rotundifolia</i>	Round-leaf Wilsonia			2/05/2010
<i>Wurmbea decumbens</i>	Trailing Nancy		R	30/08/2007
<i>Wurmbea dioica</i> ssp. <i>brevifolia</i>	Early Nancy			9/11/1998
<i>Wurmbea dioica</i> ssp. <i>dioica</i>	Early Nancy			6/11/1998
<i>Wurmbea dioica</i> ssp. <i>dioica</i> (NC)	Early Nancy			10/11/1998
<i>Xanthoparmelia amphixantha</i>	(blank)			23/09/1994
<i>Zaluzianskya divaricata</i>	Spreading Night-phlox			23/10/1998
<i>Zygophyllum ammophilum</i> (NC)	Sand Twinleaf			1/02/1990
<i>Zygophyllum aurantiacum</i> ssp. <i>aurantiacum</i> (NC)	Shrubby Twinleaf			7/11/1998
<i>Zygophyllum aurantiacum/eremaeum</i>	Shrubby Twinleaf			1/10/2020
<i>Zygophyllum eremaeum</i> (NC)	Pale-flower Twinleaf			18/07/1991

BDBSA Fauna records within the Study area.

Species Name	Common Name	EPBC Act	NPW Act	Most Recent Obs.
<i>Acanthagenys rufogularis</i>	Spiny-cheeked Honeyeater			13/06/2021
<i>Acanthiza apicalis</i>	Inland Thornbill			5/05/2020
<i>Acanthiza chrysorrhoa</i>	Yellow-rumped Thornbill			13/06/2021
<i>Acanthiza uropygialis</i>	Chestnut-rumped Thornbill			7/01/2016
<i>Accipiter cirrocephalus cirrocephalus</i>	Collared Sparrowhawk			5/12/2003
<i>Accipiter fasciatus fasciatus</i>	Brown Goshawk			26/10/2017

Species Name	Common Name	EPBC Act	NPW Act	Most Recent Obs.
<i>Acrocephalus australis australis</i>	Australian Reed Warbler			4/12/2002
<i>Actitis hypoleucos</i>	Common Sandpiper		R	16/10/2002
<i>Aegotheles cristatus cristatus</i>	Australian Owlet-nightjar			13/06/2021
<i>Amphibolurus norrisi</i>	Mallee Tree-dragon			18/11/2006
<i>Amytornis whitei aenigma</i>	Yellabinnia Rufous Grasswren		R	2/12/2002
<i>Anas castanea</i>	Chestnut Teal			16/10/2002
<i>Anas gracilis gracilis</i>	Grey Teal			28/11/2012
<i>Anas superciliosa</i>	Pacific Black Duck			24/11/2012
<i>Anthochaera carunculata</i>	Red Wattlebird			9/09/2019
<i>Anthochaera carunculata woodwardi</i>	Red Wattlebird (MLR, AP, YP, EP, far west, Yellabinnia)			13/06/2021
<i>Anthus australis</i>	Australian Pipit			28/11/2012
<i>Aprasia inaurita</i>	Red-tailed Worm-lizard			12/01/2022
<i>Aquila audax audax</i>	Wedge-tailed Eagle			31/07/2016
<i>Ardenna tenuirostris</i>	Short-tailed Shearwater			20/09/2010
<i>Ardeotis australis</i>	Australian Bustard		V	24/03/2022
<i>Artamus cyanopterus</i>	Dusky Woodswallow			27/07/2014
<i>Artamus personatus</i>	Masked Woodswallow			11/10/1991
<i>Artamus superciliosus</i>	White-browed Woodswallow			11/10/1991
<i>Auromotus australis</i>	White-striped Free-tailed Bat			1/12/2002
<i>Aythya australis</i>	Hardhead			16/10/2002
<i>Barnardius zonarius</i>	Australian Ringneck			13/06/2021
<i>Bos taurus</i>	Cattle (European Cattle)			27/11/2002
<i>Brachyurophis semifasciatus</i>	Half-girdled Snake			12/01/2022
<i>Cacomantis flabelliformis flabelliformis</i>	Fan-tailed Cuckoo			5/10/2017
<i>Cacomantis pallidus</i>	Pallid Cuckoo			27/07/2014
<i>Caligavis chrysops</i>	Yellow-faced Honeyeater			29/11/2012
<i>Capra hircus</i>	Goat (Feral Goat)			3/12/2002
<i>Castiarina gardnerae</i>	n/a			2/02/2010
<i>Castiarina pallidipennis</i>	n/a			2/02/2010
<i>Castiarina subtinctoria</i>	n/a			2/02/2010
<i>Cercartetus concinnus</i>	Western Pygmy-possum			12/01/2022
<i>Chalcites basalis</i>	Horsfield's Bronze Cuckoo			9/09/2019
<i>Chalcites osculans</i>	Black-eared Cuckoo			7/08/2009
<i>Chalinolobus gouldii</i>	Gould's Wattled Bat			2/12/2002
<i>Charadrius bicinctus bicinctus</i>	Double-banded Plover			26/11/2012
<i>Chenonetta jubata</i>	Maned Duck			3/12/2002
<i>Cheramoeca leucosterna</i>	White-backed Swallow			26/07/2014
<i>Cincloramphus cruralis</i>	Brown Songlark			25/09/2015
<i>Cincloramphus mathewsi</i>	Rufous Songlark			11/10/1991
<i>Cinclosoma castanotum (NC)</i>	Chestnut-backed Quailthrush (Chestnut Quailthrush)		ssp	17/03/2004
<i>Circus assimilis</i>	Spotted Harrier			2/12/2002
<i>Climacteris rufus</i>	Rufous Treecreeper			6/10/2014
<i>Colluricincla harmonica</i>	Grey Shrikethrush			13/06/2021

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<i>Coracina maxima</i>	Ground Cuckooshrike			3/12/2002
<i>Coracina novaehollandiae</i>	Black-faced Cuckooshrike			5/10/2017
<i>Corcorax melanorhamphos</i>	White-winged Chough		R	10/02/2006
<i>Corcorax melanorhamphos whiteae</i>	White-winged Chough (Gawler Ranges, EP, southern FR, MLR)		SP	4/01/2019
<i>Corvus bennetti</i>	Little Crow			19/03/2004
<i>Corvus coronoides</i>	Australian Raven			5/10/2017
<i>Corvus mellori</i>	Little Raven			24/09/2017
<i>Corvus sp.</i>	Crows			11/10/2019
<i>Coturnix pectoralis</i>	Stubble Quail			25/10/2011
<i>Cracticus torquatus leucopterus</i>	Grey Butcherbird			3/09/2017
<i>Ctenophorus cristatus</i>	Crested Dragon			14/01/2022
<i>Ctenophorus fionni</i>	Eyre Peninsula Dragon			4/12/2003
<i>Ctenophorus ibiri</i>	Eyre Peninsula Mallee Dragon			15/02/2005
<i>Ctenotus atlas</i>	Southern Spinifex Ctenotus			14/01/2022
<i>Ctenotus orientalis</i>	Spotted Ctenotus			28/11/2012
<i>Ctenotus regius</i>	Eastern Desert Ctenotus			3/12/2002
<i>Ctenotus robustus</i>	Eastern Striped Skink			5/12/2003
<i>Ctenotus schomburgkii</i>	Sandplain Ctenotus			11/02/2005
<i>Cyclodomorphus melanops</i>	Spinifex Slender Bluetongue			17/12/2004
<i>Dacelo novaeguineae novaeguineae</i>	Laughing Kookaburra			9/09/2019
<i>Daphoenositta chrysoptera pileata</i>	Black-capped Sittella			13/06/2021
<i>Delma australis</i>	Marble-faced Delma			17/11/2006
<i>Delma butleri</i>	Unbanded Delma			14/01/2022
<i>Delma petersoni</i>	Painted Delma			11/01/2022
<i>Demansia psammophis</i>	Yellow-faced Whipsnake			1/10/2009
<i>Diplodactylus furcosus</i>	Ranges Stone Gecko			12/01/2022
<i>Diplodactylus vittatus complex (NC)</i>	Stone Geckos			15/02/2005
<i>Dromaius novaehollandiae</i>	Emu	ssp	ssp	12/10/2014
<i>Drymodes brunneopygia</i>	Southern Scrub Robin			5/10/2017
<i>Drysdalia mastersii</i>	Master's Snake			14/07/1977
<i>Echiopsis curta</i>	Bardick		R	3/05/1981
<i>Egretta novaehollandiae</i>	White-faced Heron			25/09/2015
<i>Elanus axillaris</i>	Black-shouldered Kite			17/04/2017
<i>Euseyornis melanops</i>	Black-fronted Dotterel			16/10/2002
<i>Eolophus roseicapilla</i>	Galah			9/09/2019
<i>Eolophus roseicapilla albiceps</i>	Galah (most of SA)			13/06/2021
<i>Eopsaltria griseogularis rosinae</i>	Western Yellow Robin			13/06/2021
<i>Epthianura albifrons</i>	White-fronted Chat			29/11/2012
<i>Eurostopodus argus</i>	Spotted Nightjar			19/11/2004
<i>Falco berigora berigora</i>	Brown Falcon			17/02/2018
<i>Falco cenchroides cenchroides</i>	Nankeen Kestrel			17/04/2017
<i>Falco longipennis murchisonianus</i>	Australian Hobby			3/12/2002
<i>Falco subniger</i>	Black Falcon		R	3/12/2002
<i>Felis catus</i>	Domestic Cat (Feral Cat)			1/12/2002

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<i>Fulica atra australis</i>	Eurasian Coot			16/10/2002
<i>Gavicalis virescens</i>	Singing Honeyeater			9/09/2019
<i>Gavicalis virescens sonorus</i>	Singing Honeyeater (EP, YP, FR, MN, AP, MM, coastal SE)			13/06/2021
<i>Gehyra lazelli</i>	Southern Rock Dtella			2/12/2002
<i>Gehyra variegata</i> (NC)	Tree Dtella			8/10/1964
<i>Gehyra variegata complex</i>				8/10/1964
<i>Gehyra versicolor</i>	Eastern Tree Dtella			5/05/2020
<i>Gliciphila melanops</i>	Tawny-crowned Honeyeater			7/08/2009
<i>Grallina cyanoleuca cyanoleuca</i>	Magpielark			16/09/2017
<i>Gymnorhina tibicen</i>	Australian Magpie			9/09/2019
<i>Hemiergis initialis</i>	Western Earless Skink			2/12/2002
<i>Hemiergis peronii</i>	Four-toed Earless Skink			5/05/2020
<i>Heteronotia binoei</i>	Bynoe's Gecko			4/12/2003
<i>Hirundo neoxena neoxena</i>	Welcome Swallow			16/09/2017
<i>Hylacola cauta</i>	Shy Heathwren	ssp	ssp	1/10/2020
<i>Hylacola cauta cauta</i>	Shy Heathwren (EP, YP, FR, MM, upper SE)		R	20/11/2004
<i>Lasiornis latifrons</i>	Southern Hairy-nosed Wombat			29/11/2001
<i>Leipoa ocellata</i>	Malleefowl	VU	V	27/05/2022
<i>Lerista distinguenda</i>	Dwarf Four-toed Slider		R	14/01/2022
<i>Lerista dorsalis</i>	Southern Four-toed Slider			27/11/2012
<i>Lerista edwardsae</i>	Myall Slider			14/01/2022
<i>Lerista sp.</i>				15/02/2005
<i>Lerista taeniata</i>	Ribbon Slider			14/01/2022
<i>Lerista terdigitata</i>	Southern Three-toed Slider			14/01/2022
<i>Lialis burtonis</i>	Burton's Snake-lizard			5/05/2020
<i>Lichenostomus cratitius</i>	Purple-gaped Honeyeater		ssp	24/09/2017
<i>Lichenostomus cratitius occidentalis</i>	Purple-gaped Honeyeater (mainland SA)		R	29/11/2012
<i>Liopholis inornata</i>	Desert Skink			14/01/2022
<i>Lucasium damaeum</i>	Beaded Gecko			14/01/2022
MACROPODIDAE sp.	kangaroos			17/09/2019
<i>Macropus (Osphranter) robustus</i>	Euro			1/07/2008
<i>Macropus (Osphranter) rufus</i>	Red Kangaroo			1/01/1984
<i>Macropus fuliginosus</i>	Western Grey Kangaroo			5/05/2020
<i>Macropus sp.</i>				3/12/2003
<i>Malacorhynchus membranaceus</i>	Pink-eared Duck			16/10/2002
<i>Malurus assimilis assimilis</i>	Purple-backed Fairywren			29/04/2016
<i>Malurus cyaneus leggei</i>	Superb Fairywren (Mainland SA)			13/06/2021
<i>Malurus leucopterus leuconotus</i>	White-winged Fairywren			4/12/2002
<i>Malurus pulcherrimus</i>	Blue-breasted Fairywren			5/06/2016
<i>Malurus sp.</i>	fairywrens			19/11/2004
<i>Malurus splendens callainus</i>	Turquoise Fairywren (NW, northern EP)			2/12/2002
<i>Manorina flavigula</i>	Yellow-throated Miner	ssp	ssp	11/10/2014
<i>Melanodryas cucullata westralensis</i>	Hooded Robin (EP, NW)			18/11/2004
<i>Melithreptus brevirostris</i>	Brown-headed Honeyeater	ssp		5/10/2017

Species Name	Common Name	EPBC Act	NPW Act	Most Recent Obs.
<i>Melithreptus brevirostris leucogenys</i>	Brown-headed Honeyeater (EP)			13/06/2021
<i>Menetia greyii</i>	Dwarf Skink			14/01/2022
<i>Merops ornatus</i>	Rainbow Bee-eater			2/12/2003
<i>Microeca fascinans</i>	Jacky Winter		ssp	18/07/1991
<i>Milvus migrans affinis</i>	Black Kite			19/10/1994
<i>Moloch horridus</i>	Thorny Devil			1/11/2009
<i>Morethia adelaidensis</i>	Adelaide Snake-eye			2/12/2002
<i>Morethia obscura</i>	Mallee Snake-eye			14/01/2022
<i>Mus musculus</i>	House Mouse			28/11/2012
<i>Neobatrachus pictus</i>	Burrowing Frog			4/12/2003
<i>Neophema sp.</i>	Neophema parrots			28/11/2002
<i>Nephurus stellatus</i>	Starred Knob-tailed Gecko			14/01/2022
<i>Nesoptilotis leucotis</i>	White-eared Honeyeater	ssp		5/10/2017
<i>Nesoptilotis leucotis schoddei</i>	White-eared Honeyeater (Yellabinnia, Gawler Ranges, EP)			13/06/2021
<i>Ningauia ridei</i>	Wongai ningauia			14/01/2022
<i>Notomys mitchellii</i>	Mitchell's Hopping-mouse			4/12/2002
<i>Nyctophilus geoffroyi</i>	Lesser Long-eared Bat			6/12/2003
<i>Nyctophilus sp.</i>				1/12/2002
<i>Ocyphaps lophotes lophotes</i>	Crested Pigeon			9/09/2019
<i>Oreoica gutturalis</i>	Crested Bellbird			29/04/2016
<i>Oryctolagus cuniculus</i>	Rabbit (European Rabbit)			5/05/2020
<i>Pachycephala fuliginosa fuliginosa</i>	Western Whistler			26/10/2017
<i>Pachycephala inornata</i>	Gilbert's Whistler		R	31/07/2016
<i>Pachycephala pectoralis youngi</i>	Australian Golden Whistler			13/06/2021
<i>Pachycephala rufiventris rufiventris</i>	Rufous Whistler			29/04/2016
<i>Pardalotus punctatus</i>	Spotted Pardalote			5/05/2020
<i>Pardalotus punctatus xanthopyge</i>	Yellow-rumped Pardalote			29/11/2012
<i>Pardalotus striatus</i>	Striated Pardalote			13/06/2021
<i>Pardalotus striatus substriatus</i>	Striated Pardalote			5/05/2020
<i>Parvipsitta porphyrocephala</i>	Purple-crowned Lorikeet			18/11/2004
<i>Passer domesticus domesticus</i>	House Sparrow			16/09/2017
<i>Petrochelidon nigricans</i>	Tree Martin			5/12/2002
<i>Petroica goodenovii</i>	Red-capped Robin			13/06/2021
<i>Phaps chalcoptera</i>	Common Bronzewing			5/05/2020
<i>Phaps elegans elegans</i>	Brush Bronzewing			7/01/2016
<i>Phaps sp.</i>	bronzewings			28/11/2002
<i>Phylidonyris novaehollandiae</i>	New Holland Honeyeater			5/10/2017
<i>Phylidonyris novaehollandiae novaehollandiae</i>	New Holland Honeyeater (mainland SA)			28/11/2012
<i>Podargus strigoides</i>	Tawny Frogmouth			24/11/2012
<i>Pogona minor</i>	Western Bearded Dragon			17/10/1954
<i>Pogona vitticeps</i>	Central Bearded Dragon			19/11/2006
<i>Poliocephalus poliocephalus</i>	Hoary-headed Grebe			26/11/2012
<i>Pomatostomus superciliosus</i>	White-browed Babbler			5/05/2020

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<i>Poodytes gramineus goulburni</i>	Little Grassbird			4/12/2002
<i>Psephotellus varius</i>	Mulga Parrot			1/10/2020
<i>Pseudomys bolami</i>	Bolam's Mouse			4/12/2002
<i>Pseudonaja affinis</i>	Dugite			15/09/1974
<i>Pseudonaja aspidorhyncha</i>	Patch-nosed Brown Snake			1/03/2010
<i>Pseudonaja nuchalis (NC)</i>	Western Brown Snake			28/11/2002
<i>Pseudonaja sp.</i>				22/10/2007
<i>Ptilotula ornata</i>	Yellow-plumed Honeyeater			6/10/2014
<i>Ptilotula penicillata</i>	White-plumed Honeyeater			29/04/2016
<i>Purnella albifrons</i>	White-fronted Honeyeater			12/10/2014
<i>Pygopus lepidopodus</i>	Common Scaly-foot			26/11/2012
<i>Rhipidura albiscapa</i>	Grey Fantail			5/06/2016
<i>Rhipidura leucophrys leucophrys</i>	Willie Wagtail			9/09/2019
<i>Sericornis frontalis (NC)</i>	White-browed Scrubwren			12/10/2014
<i>Sericornis maculatus mellori</i>	Spotted Scrubwren (south-western SA, EP, YP, upper Gulf St Vincent)			28/11/2012
<i>Simoselaps bertholdi</i>	Desert Banded Snake			2/12/2002
<i>Smicrornis brevirostris</i>	Weebill			9/09/2019
<i>Smicrornis brevirostris occidentalis</i>	Weebill (Yellabinna, Gawler Ranges, EP, YP, southern FR, MN, MLR, MM)			13/06/2021
<i>Sminthopsis dolichura</i>	Little Long-tailed Dunnart			12/01/2022
<i>Sminthopsis fuliginosus fuliginosus</i>	Grey-bellied Dunnart			17/12/2004
<i>Sminthopsis psammophila</i>	Sandhill Dunnart	EN	V	12/01/2022
<i>Spilopelia chinensis</i>	Spotted Dove			28/11/2002
<i>Stagonopleura guttata</i>	Diamond Firetail	VU	V	29/04/2016
<i>Strepera versicolor</i>	Grey Currawong		ssp	13/06/2021
<i>Strepera versicolor intermedia</i>	Brown Currawong (Yellabinna, GR, EP, YP)			29/11/2012
<i>Strophurus intermedius</i>	Southern Spiny-tailed Gecko			14/09/1974
<i>Sturnus vulgaris vulgaris</i>	Common Starling			9/09/2019
<i>Tachybaptus novaehollandiae novaehollandiae</i>	Australasian Grebe			28/11/2012
<i>Tachyglossus aculeatus</i>	Short-beaked Echidna	ssp	ssp	1/10/2020
<i>Tiliqua occipitalis</i>	Western Bluetongue			19/12/2004
<i>Tiliqua rugosa</i>	Sleepy Lizard			10/10/2019
<i>Tiliqua scincoides</i>	Eastern Bluetongue			27/11/2012
<i>Tiliqua sp.</i>				22/10/2007
<i>Todiramphus pyrrhopygius</i>	Red-backed Kingfisher			24/09/2017
<i>Tribonyx ventralis</i>	Black-tailed Nativehen			16/10/2002
<i>Trichoglossus moluccanus moluccanus</i>	Rainbow Lorikeet			9/09/2019
<i>Trichosurus vulpecula</i>	Common Brushtail Possum		R	6/03/1913
<i>Turdus merula merula</i>	Common Blackbird			28/11/2002
<i>Turnix varius varius</i>	Painted Buttonquail		R	17/03/2004
<i>Turnix velox</i>	Little Buttonquail			25/10/2011
<i>Tyto javanica delicatula</i>	Eastern Barn Owl			24/11/2012
<i>Underwoodisaurus milii</i>	Common Barking Gecko			3/05/1981

Species Name	Common Name	EPBC Act	NPW Act	Most Recent Obs.
<i>Vanellus miles</i>	Masked Lapwing			19/11/2004
<i>Varanus gouldii</i>	Sand Goanna			14/01/2022
<i>Varanus rosenbergi</i>	Heath Goanna		V	24/11/2015
<i>Varanus sp.</i>	goannas			27/11/2015
<i>Vulpes vulpes</i>	Fox (Red Fox)			5/05/2020
<i>Zosterops lateralis</i>	Silvereye			26/10/2017
<i>Zosterops lateralis pinarochrous</i>	Silvereye (EP, YP, FR, MLR, MM, SE)			13/06/2021